

Appendices

Appendix 5.1-1 Air Quality Modeling and Calculations

Appendices

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CalEEMod Construction Run Land Use Inputs:

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Recreational	City Park	304.731	acre	304.73	0
Parking	Other non-asphalt	141.578	acre	141.58	0
Parking	Other Asphalt	21.371	acre	21.37	0
Parking	Parking Lot	10.872	acre	10.87	473,581
				478.55	473,581

Project Location: San Diego County
Climate Zone: 13
Operation Year
Land Use Setting: Urban
Utility Company: SDGE

Land Uses/Development

Land Uses

Land Use	Option A	1	2	3	4	5	6	7	
<i>Circulation and Parking</i>	32.24	6.52	1.17	1.60	7.71	2.77	4.58	3.65	4.26
<i>Circulation</i>	21.37								
<i>Existing Parking</i>	1.26								
<i>New Parking</i>	9.62								
<i>Sand Management Area</i>	6.96	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Open Beach</i>	49.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.42
<i>Parkland</i>	111.06	22.71	5.77	0.00	55.09	7.15	15.16	3.89	1.30
<i>Native Vegetation</i>	86.72	22.71	5.77	0.00	50.14	7.15	0.96	0.00	0.00
<i>Non-Native Vegetation</i>	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
<i>Regional Park</i>	23.05	0.00	0.00	0.00	4.95	0.00	14.20	3.89	0.00
<i>Playfields</i>	29.19	0.00	0.00	0.00	0.00	29.19	0.00	0.00	0.00
<i>Youth Camping</i>	22.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.28
<i>Primitive Camping</i>	6.78	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
<i>Habitat Preserve</i>	39.05	12.58	0.70	0.00	19.64	1.00	0.00	0.00	5.12
<i>Upland Preserve</i>	45.68	11.06	0.00	0.00	0.00	0.00	0.00	0.00	34.62
<i>Wetlands Habitat</i>	45.63	15.54	15.22	0.00	0.00	0.00	0.00	0.00	14.87
<i>Undesignated Water</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Eelgrass Habitat</i>	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00
<i>Boat Storage</i>	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00
<i>Pier</i>	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
<i>Primary Fenced Leash Free Area</i>	84.95	0.00	0.00	13.92	0.00	0.00	0.00	17.14	53.89
<i>Open Beach</i>	13.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.34
<i>Swimming Beach</i>	1.77	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00
<i>Parkland (Non-native Veg)</i>	40.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.55
<i>Parkland (Native Veg)</i>	24.40	0.00	0.00	9.03	0.00	0.00	0.00	15.37	0.00
<i>Developed Dog Park</i>	4.89	0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00
Total	478.55	75.37	27.11	15.52	89.22	40.11	19.74	25.72	185.76
		26%	9%	5%	30%	14%	7%	9%	
		61.78	22.22	12.72	73.13	32.88	16.18	21.09	

Demolition

Roadway Length (linear feet): 4,412 lineal feet
Average Width: 12 feet
Roadway Area: 52,939 square feet
Asphalt Demolition Debris Volume: 1,235 tons

Total Haul Amount: 1,235 tons
Total Haul Trips: 122 trip ends (CalEEMod Default)
1-way haul distance: 20 miles (CalEEMod Default)
Haul truck capacity: 20.23 tons (CalEEMod default)

	Development Phase							Total
	1	2	3	4	5	6	7	
Lineal Feet	1,472					2940	0	4,412
Square Footage	17,663					35,276		52,939
Tons Hauled	412					823		1,235
Truck Haul Capacity	20.23					20.23		NA
Total 1-Way Haul Trips	41					81		122

Soil Haul

Area	Cut (Export) - CY	Fill (Import) - CY	
1	356,691		
2		178,447	
3		150,127	
4	42,244		
5		60,518	
Total	398,935	389,092	
Total Haul Trips	49,867	48,637	trip ends (CalEEMod Default)
1-way haul distance	20	20	miles (CalEEMod Default)
Haul truck capacity	16	16	cubic yards (CalEEMod default)

*Based on information provided by Applicant.

	Development Phase							Total
	1	2	3	4	5	6	7	
Export (CY)	356,691						42,244	398,935
Import (CY)	215,979	60,518	37,532	37,532	37,532			389,092
Haul Truck Capacity (CY)	16	16	16	16	16		16	
Total 1-Way Export Haul Trips	44,586	0	0	0	0		5,281	49,867
Total 1-Way Import Haul Trips	26,997	7,565	4,691	4,691	4,691		0	48,635
	482							

Architectural Coating

Modeling also assumes a VOC of 250 g/L for interior paints used for non-residential buildings pursuant to SDAPCD Rule 67.0.1.

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Parking	418,837	0.06	25,130	0	25,130
			Subtotal:	0	25,130

*Based on CalEEMod methodology in calculating the paintable surface areas for a surface parking lot.

CalEEMod Construction Run Land Use Inputs: Worst Case Day (Phase 1)

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Recreational	City Park	22.709	acre	22.71	0
Parking	Other non-asphalt	46.138	acre	46.14	0
Parking	Other Asphalt	6.520	acre	6.52	0
Parking	Parking Lot	163.947	acre	3.76	163,947
				79.13	163,947
				3.76	

Project Location: San Diego County
Climate Zone: 13
Operation Year: NA
Land Use Setting: Urban
Utility Company: SDGE

*For purposes of this analysis, the proposed surface parking anticipated for Phase 6 is assumed to occur during Phase 1.

Land Uses/Development

Land Uses

Land Use	Option A	Development Phase							
		1	2	3	4	5	6	7	
<i>Circulation and Parking</i>	32.24	6.52	1.17	1.60	7.71	2.77	4.58	3.65	4.26
<i>Circulation</i>	21.37	4.80	0.22	0.00	3.63	1.73	1.17	0.72	
<i>Existing Parking</i>	1.26								
<i>New Parking</i>	9.62	0.00	0.00	1.55	1.92	0.00	3.76	2.38	
<i>Sand Management Area</i>	6.96	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Open Beach</i>	49.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.42
<i>Parkland</i>	111.06	22.71	5.77	0.00	55.09	7.15	15.16	3.89	1.30
<i>Native Vegetation</i>	86.72	22.71	5.77	0.00	50.14	7.15	0.96	0.00	0.00
<i>Non-Native Vegetation</i>	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
<i>Regional Park</i>	23.05	0.00	0.00	0.00	4.95	0.00	14.20	3.89	0.00
<i>Playfields</i>	29.19	0.00	0.00	0.00	0.00	29.19	0.00	0.00	0.00
<i>Youth Camping</i>	22.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.28
<i>Primitive Camping</i>	6.78	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
<i>Habitat Preserve</i>	39.05	12.58	0.70	0.00	19.64	1.00	0.00	0.00	5.12
<i>Upland Preserve</i>	45.68	11.06	0.00	0.00	0.00	0.00	0.00	0.00	34.62
<i>Wetlands Habitat</i>	45.63	15.54	15.22	0.00	0.00	0.00	0.00	0.00	14.87
<i>Undesignated Water</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Eelgrass Habitat</i>	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00
<i>Boat Storage</i>	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00
<i>Pier</i>	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
<i>Primary Fenced Leash Free Area</i>	84.95	0.00	0.00	13.92	0.00	0.00	0.00	17.14	53.89
<i>Open Beach</i>	13.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.34
<i>Swimming Beach</i>	1.77	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00
<i>Parkland (Non-native Veg)</i>	40.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.55
<i>Parkland (Native Veg)</i>	24.40	0.00	0.00	9.03	0.00	0.00	0.00	15.37	0.00
<i>Developed Dog Park</i>	4.89	0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00
Total	478.55	75.37	27.11	15.52	89.22	40.11	19.74	25.72	185.76
		26%	9%	5%	30%	14%	7%	9%	
		5.15	1.85	1.06	6.09	2.74	1.35	1.76	

Roadway Paving/Parking

	1	2	3	4	5	6	7
<i>New Road (lineal feet)</i>	2,201			3,026		2,474	1,739
<i>Existing Road (lineal feet)</i>	9,426	532		5,747	4,188	352	
<i>New Road Width (feet)</i>	18	18	18	18	18	18	18
<i>New Road Area (SF)</i>	39,618	0	0	54,468	0	44,532	31,302
<i>Existing Road Area (SF)</i>	169,668	9,576	0	103,446	75,384	6,336	0
<i>Surface Parking Lot (SF)</i>			67,690	83,662		163,947	103,538

Demolition

<i>Roadway Length (linear feet):</i>	4,412	lineal feet
<i>Average Width:</i>	12	feet
<i>Roadway Area:</i>	52,939	square feet
<i>Asphalt Demolition Debris Volume:</i>	1,235	tons
<i>Total Haul Amount</i>	1,235	tons
<i>Total Haul Trips</i>	122	trip ends (CalEEMod Default)
<i>1-way haul distance</i>	20	miles (CalEEMod Default)
<i>Haul truck capacity</i>	20.23	tons (CalEEMod default)

	Development Phase							Total
	1	2	3	4	5	6	7	
Lineal Feet	1,472					2940	0	4,412
Square Footage	17,663					35,276		52,939
Tons Hauled	412					823		1,235
Truck Haul Capacity	20.23					20.23		NA
Total 1-Way Haul Trips	41					81		122

*Based on CalEEMod conversion factor of 0.046 ton per square feet of building material.

Soil Haul

Area	Cut (Export) - CY	Fill (Import) - CY	
1	356,691		
2		178,447	
3		150,127	
4	42,244		
5		60,518	
Total	398,935	389,092	
Total Haul Trips	49,867	48,637	trip ends (CalEEMod Default)
1-way haul distance	20	20	miles (CalEEMod Default)
Haul truck capacity	16	16	cubic yards (CalEEMod default)

*Based on information provided by Applicant.

	Development Phase							
	1	2	3	4	5	6	7	Total
Export (CY)	356,691						42,244	398,935
Import (CY)	215,979	60,518	37,532	37,532	37,532			389,092
Haul Truck Capacity (CY)	16	16	16	16	16		16	
Total 1-Way Export Haul Trips	44,586	0	0	0	0		5,281	49,867
Total 1-Way Import Haul Trips	26,997	7,565	4,691	4,691	4,691		0	48,635

Architectural Coating

Modeling also assumes a VOC of 250 g/L for interior paints used for non-residential buildings pursuant to SDAPCD Rule 67.0.1.

Land Use	Land Use Amount (BSF)	CalEEMod Paintable Surface Area Multiplier*	Total Paintable Surface Area (BSF)	Total Paintable Interior Surface Area (BSF)*	Total Paintable Exterior Surface Area (BSF)*
Parking	163,947	0.06	9,837	0	9,837
			Subtotal:	0	9,837

*Based on CalEEMod methodology in calculating the paintable surface areas for a surface parking lot.

CalEEMod Construction Run Land Use Inputs: Phase 2

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Recreational	City Park	5.766	acre	5.77	0
Parking	Other non-asphalt	20.178	acre	20.18	0
Parking	Other Asphalt	1.167	acre	1.17	0
				27.11	0

Project Location: San Diego County
Climate Zone: 13
Operation Year: NA
Land Use Setting: Urban
Utility Company: SDGE

Land Uses/Development

Land Uses

Land Use	Option A	Development Phase							
		1	2	3	4	5	6	7	
Circulation and Parking	32.24	6.52	1.17	1.60	7.71	2.77	4.58	3.65	4.26
Circulation	21.37	4.80	0.22	0.00	3.63	1.73	1.17	0.72	
Existing Parking	1.26								
New Parking	9.62	0.00	0.00	1.55	1.92	0.00	3.76	2.38	
Sand Management Area	6.96	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Open Beach	49.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.42
Parkland	111.06	22.71	5.77	0.00	55.09	7.15	15.16	3.89	1.30
Native Vegetation	86.72	22.71	5.77	0.00	50.14	7.15	0.96	0.00	0.00
Non-Native Vegetation	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
Regional Park	23.05	0.00	0.00	0.00	4.95	0.00	14.20	3.89	0.00
Playfields	29.19	0.00	0.00	0.00	0.00	29.19	0.00	0.00	0.00
Youth Camping	22.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.28
Primitive Camping	6.78	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
Habitat Preserve	39.05	12.58	0.70	0.00	19.64	1.00	0.00	0.00	5.12
Upland Preserve	45.68	11.06	0.00	0.00	0.00	0.00	0.00	0.00	34.62
Wetlands Habitat	45.63	15.54	15.22	0.00	0.00	0.00	0.00	0.00	14.87
Undesignated Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Eelgrass Habitat	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00
Boat Storage	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00
Pier	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
Primary Fenced Leash Free Area	84.95	0.00	0.00	13.92	0.00	0.00	0.00	17.14	53.89
Open Beach	13.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.34
Swimming Beach	1.77	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00
Parkland (Non-native Veg)	40.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.55
Parkland (Native Veg)	24.40	0.00	0.00	9.03	0.00	0.00	0.00	15.37	0.00
Developed Dog Park	4.89	0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00
Total	478.55	75.37	27.11	15.52	89.22	40.11	19.74	25.72	185.76
		26%	9%	5%	30%	14%	7%	9%	
		5.15	1.85	1.06	6.09	2.74	1.35	1.76	

Roadway Paving/Parking

	1	2	3	4	5	6	7
New Road (lineal feet)	2,201			3,026		2,474	1,739
Existing Road (lineal feet)	9,426	532		5,747	4,188	352	
New Road Width (feet)	18	18	18	18	18	18	18
New Road Area (SF)	39,618	0	0	54,468	0	44,532	31,302
Existing Road Area (SF)	169,668	9,576	0	103,446	75,384	6,336	0
Surface Parking Lot (SF)			67,690	83,662		163,947	103,538

Demolition

Roadway Length (lineal feet): 4,412 lineal feet
Average Width: 12 feet
Roadway Area: 52,939 square feet
Asphalt Demolition Debris Volume: 1,235 tons

CalEEMod Construction Run Land Use Inputs: Phase 2

Type	Land Use Type	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use Square Feet
Recreational	City Park	5.766	acre	5.77	0
Parking	Other non-asphalt	20.178	acre	20.18	0
Parking	Other Asphalt	1.167	acre	1.17	0
				27.11	0

Project Location: San Diego County
Climate Zone: 13
Operation Year: NA
Land Use Setting: Urban
Utility Company: SDGE

Land Uses/Development

Land Uses

Land Use	Option A	Development Phase							
		1	2	3	4	5	6	7	
<i>Circulation and Parking</i>	32.24	6.52	1.17	1.60	7.71	2.77	4.58	3.65	4.26
<i>Circulation</i>	21.37	4.80	0.22	0.00	3.63	1.73	1.17	0.72	
<i>Existing Parking</i>	1.26								
<i>New Parking</i>	9.62	0.00	0.00	1.55	1.92	0.00	3.76	2.38	
<i>Sand Management Area</i>	6.96	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Open Beach</i>	49.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.42
<i>Parkland</i>	111.06	22.71	5.77	0.00	55.09	7.15	15.16	3.89	1.30
<i>Native Vegetation</i>	86.72	22.71	5.77	0.00	50.14	7.15	0.96	0.00	0.00
<i>Non-Native Vegetation</i>	1.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30
<i>Regional Park</i>	23.05	0.00	0.00	0.00	4.95	0.00	14.20	3.89	0.00
<i>Playfields</i>	29.19	0.00	0.00	0.00	0.00	29.19	0.00	0.00	0.00
<i>Youth Camping</i>	22.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.28
<i>Primitive Camping</i>	6.78	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00
<i>Habitat Preserve</i>	39.05	12.58	0.70	0.00	19.64	1.00	0.00	0.00	5.12
<i>Upland Preserve</i>	45.68	11.06	0.00	0.00	0.00	0.00	0.00	0.00	34.62
<i>Wetlands Habitat</i>	45.63	15.54	15.22	0.00	0.00	0.00	0.00	0.00	14.87
<i>Undesignated Water</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Eelgrass Habitat</i>	4.26	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00
<i>Boat Storage</i>	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00
<i>Pier</i>	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00
<i>Primary Fenced Leash Free Area</i>	84.95	0.00	0.00	13.92	0.00	0.00	0.00	17.14	53.89
<i>Open Beach</i>	13.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.34
<i>Swimming Beach</i>	1.77	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00
<i>Parkland (Non-native Veg)</i>	40.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.55
<i>Parkland (Native Veg)</i>	24.40	0.00	0.00	9.03	0.00	0.00	0.00	15.37	0.00
<i>Developed Dog Park</i>	4.89	0.00	0.00	4.89	0.00	0.00	0.00	0.00	0.00
Total	478.55	75.37	27.11	15.52	89.22	40.11	19.74	25.72	185.76
		26%	9%	5%	30%	14%	7%	9%	
		5.15	1.85	1.06	6.09	2.74	1.35	1.76	

Roadway Paving/Parking

	1	2	3	4	5	6	7
<i>New Road (lineal feet)</i>	2,201			3,026		2,474	1,739
<i>Existing Road (lineal feet)</i>	9,426	532		5,747	4,188	352	
<i>New Road Width (feet)</i>	18	18	18	18	18	18	18
<i>New Road Area (SF)</i>	39,618	0	0	54,468	0	44,532	31,302
<i>Existing Road Area (SF)</i>	169,668	9,576	0	103,446	75,384	6,336	0
<i>Surface Parking Lot (SF)</i>			67,690	83,662		163,947	103,538

Demolition

Roadway Length (lineal feet): 4,412 lineal feet
Average Width: 12 feet
Roadway Area: 52,939 square feet
Asphalt Demolition Debris Volume: 1,235 tons

Total Haul Amount	1,235	tons
Total Haul Trips	122	trip ends (CalEEMod Default)
1-way haul distance	20	miles (CalEEMod Default)
Haul truck capacity	20.23	tons (CalEEMod default)

	Development Phase						
	1	2	3	4	5	6	7
Lineal Feet	1,472					2940	0
Square Footage	17,663					35,276	
Tons Hauled	412					823	
Truck Haul Capacity	20.23					20.23	
Total 1-Way Haul Trips	41					81	

*Based on CalEEMod conversion factor of 0.046 ton per square feet of building material.

Soil Haul

Area	Cut (Export) - CY	Fill (Import) - CY	
1	356,691		
2		178,447	
3		150,127	
4	42,244		
5		60,518	
Total	398,935	389,092	
Total Haul Trips	49,867	48,637	trip ends (CalEEMod Default)
1-way haul distance	20	20	miles (CalEEMod Default)
Haul truck capacity	16	16	cubic yards (CalEEMod default)

*Based on information provided by Applicant.

	Development Phase						
	1	2	3	4	5	6	7
Export (CY)	356,691						42,244
Import (CY)	215,979	60,518	37,532	37,532	37,532		
Haul Truck Capacity (CY)	16	16	16	16	16		16
Total 1-Way Export Haul Trips	44,586	0	0	0	0		5,281

Total Haul Amount	1,235	tons
Total Haul Trips	122	trip ends (CalEEMod Default)
1-way haul distance	20	miles (CalEEMod Default)
Haul truck capacity	20.23	tons (CalEEMod default)

	Development Phase						
	1	2	3	4	5	6	7
Lineal Feet	1,472					2940	0
Square Footage	17,663					35,276	
Tons Hauled	412					823	
Truck Haul Capacity	20.23					20.23	
Total 1-Way Haul Trips	41					81	

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*Based on information provided by Applicant.

	Development Phase						
	1	2	3	4	5	6	7
Export (CY)	356,691						42,244
Import (CY)	215,979	60,518	37,532	37,532	37,532		
Haul Truck Capacity (CY)	16	16	16	16	16		16
Total 1-Way Export Haul Trips	44,586	0	0	0	0		5,281

Construction Phasing: Worst Case Day (Phase 1)

5-Day Work Week

CalEEMod Default Schedule

Phase Name*	Start Date	End Date	CalEEMod Days
Demolition	9/25/2017	2/9/2018	100
Site Preparation	2/10/2018	5/4/2018	60
Grading	5/5/2018	12/7/2018	155
Building Construction	12/8/2018	11/15/2024	1,550
Paving	11/16/2024	4/18/2025	110
Architectural Coating	4/19/2025	9/19/2025	110
Duration			7.90 years

Adjusted CalEEMod Default Schedule - with Overlap (Normalized for 17 year Buildout)

Phase Name	Start Date	End Date	CalEEMod Days
Demolition	1/1/2018	2/19/2018	36
Site Preparation	2/20/2018	3/21/2018	22
Grading	3/22/2018	6/7/2018	56
Building Construction	6/8/2018	7/31/2020	561
Paving	8/3/2020	9/25/2020	40
Architectural Coating	9/28/2020	11/23/2020	40
			2.86

*CalEEMod default schedule.

Construction Phasing: Phase 2

P

CalEEMod Default Schedule

Phase Name*	Start Date	End Date	CalEEMod Days
Demolition	9/25/2017	11/3/2017	30
Site Preparation	11/4/2017	12/1/2017	20
Grading	12/2/2017	2/2/2018	45
Building Construction	2/3/2018	10/11/2019	440
Paving	10/12/2019	11/29/2019	35
Architectural Coating	11/30/2019	1/17/2020	35
Duration			2.18 years

Adjusted CalEEMod Default Schedule - with Overlap (Normalized for 2.86 year Buildout)

Phase Name	Start Date	End Date	CalEEMod Days
Site Preparation	1/1/2018	2/5/2018	26
Grading	1/1/2018	3/22/2018	59
Building Construction	1/1/2018	3/17/2020	577
Paving	1/1/2018	3/5/2018	46
Architectural Coating	1/1/2018	3/6/2018	46
			2.86

*CalEEMod default schedule.

**Based on 7 development phases built out over a 20-year duration. Assumes equal duration for each development phase (i.e. 2.86 years each).phase duration.

Construction Equipment Mix: Worst Case Day (Phase 1)*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Total Days	Worker Trips/ Day	CalEEMod Vendor
Building Demolition						Default	Default+2
Concrete/Industrial Saws	1	8	81	0.40			
Excavators	3	8	158	0.37			
Rubber Tired Dozers	2	8	247	0.40			
Water truck**	1						2
Site Preparation						Default	Default+2
Rubber Tired Dozers	3	8	247	0.40			
Tractors/Loaders/Backhoes	4	8	97	0.37			
Water truck**	1						2
Rough Grading						Default	Default+2
Excavators	2	8	158	0.38			
Graders	1	8	157	0.41			
Rubber Tired Dozers	1	8	247	0.40			
Scrapers	2	8	367				
Tractors/Loaders/Backhoes	2	8	97	0.37			
Water truck	1						2
Building Construction**						Default	Default
Forklifts	3	8	89	0.20			
Generator Sets	1	8	84	0.74			
Skid Steer Loaders	3	8	65	0.37			
Asphalt Paving						Default	Default+8
Pavers	2	8	130	0.42			
Paving Equipment	2	8	132	0.36			
Rollers	2	8	80	0.38			
Architectural Coating						Default	Default
Air Compressors	1	6	78	0.48			

*Based on CalEEMod defaults.

**Assumes water truck and two trips per day for the water truck.

Construction Equipment Mix: Phase 2*

Equipment	Pieces of Equipment	Hrs Op	HP	LF	Total Days	Worker Trips/ Day	CalEEMod Vendor
Building Demolition						Default	Default+2
Concrete/Industrial Saws	1	8	81	0.40			
Excavators	3	8	158	0.37			
Rubber Tired Dozers	2	8	247	0.40			
Water truck**	1						2
Site Preparation						Default	Default+2
Rubber Tired Dozers	3	8	247	0.40			
Tractors/Loaders/Backhoes	4	8	97	0.37			
Water truck**	1						2
Rough Grading						Default	Default+2
Excavators	2	8	158	0.38			
Graders	1	8	157	0.41			
Rubber Tired Dozers	1	8	247	0.40			
Scrapers	2	8	367				
Tractors/Loaders/Backhoes	2	8	97	0.37			
Water truck	1						2
Building Construction**						Default	Default
Cranes	1	7	231	0.29			
Forklifts	3	8	89	0.20			
Generator Sets	1	8	84	0.74			
Tractors/Loaders/Backhoes	3	7	97	0.37			
Welders	1	8	46	0.45			
Asphalt Paving						Default	Default+8
Pavers	2	8	130	0.42			
Paving Equipment	2	8	132	0.36			
Rollers	2	8	80	0.38			
Architectural Coating						Default	Default
Air Compressors	1	6	78	0.48			

*Based on CalEEMod defaults.

**Assumes water truck and two trips per day for the water truck.

Water Demand Worksheet: Adopted Plan

			water demand factors					water demands, Existing						water demands, Adopted Plan					
								Daily			Annual			Daily			Annual		
	existing	Adopted Plan	indoor	outdoor	total		indoor	outdoor	total	indoor	outdoor	total	indoor	outdoor	total	indoor	outdoor	total	
playfields/sand rec, acres	31	28.2	446	0	446		13,826	0	13,826	5,046,490	0	5,046,490	12,577	0	12,577	4,590,678	0	4,590,678	
youth camping area, sites	34	34	270	600	870		9,180	20,400	29,580	1,971,405	4,380,900	6,352,305	9,180	20,400	29,580	1,971,405	4,380,900	6,352,305	
primitive camping area	0	30	270	190	460		0	0	0	0	0	0	8,100	5,700	13,800	1,739,475	1,224,075	2,963,550	
total							23,006	20,400	43,406	7,017,895	4,380,900	11,398,795	29,857	26,100	55,957	8,301,558	5,604,975	13,906,533	

Irvine Ranch WD has 2 irrigation water factors for parks: 2,100 gal/acre/day regional and 3,400 community.
I used the regional factor here assuming it might reflect more habitat area similar to this project.

Irvine Ranch Water District (IRWD). 2003, July 16. Water Resources Master Plan

Indoor water demands for parks are 0.5 acre-foot per acre per year = 446 gal/acre/day

Source: Northern California Water Association. Sacramento Valley Land Use/Water Supply Analysis Guidebook. 2007. <https://www.norcalwater.org/res/docs/NCWA-guidebook-final.pdf>

Campgrounds with flush toilets (no showers) are estimated to use 20-30 gallons per day per person at one time

Source: US Forest Service. 2007, September. Water Use in Forest Service Recreation Areas: Guidelines for Water System Designers. <https://www.fs.fed.us/t-d/pubs/htmlpubs/htm07732326/>

each campsite would have capacity for nine people = 270 gpd/site

The primitive camping area would have 30 sites, 9 persons/site = 270 persons; indoor water use = 30 gpcd = 8,100 gpcd

youth camping: **proposed**: assume proposed 32 sites (34 existing * [22.3/23.6]). 9 persons/site = 288 persons. Indoor water use = 30 gpcd = 8,640 gpcd

Youth camping: existing: 34 sites. 9 persons/site = 306 persons. Indoor water use = 30 gpcd = 9180 gpcd

outdoor water use for **youth** camping: 1 acre/1.4 sites [23.6 acres/34 sites] * 2100 gpd/acre (regional park) * 40% vegetated (estimated- aerial, existing youth camp) = 600 gpd/site

outdoor water use for **primitive** camping: 1 acre/4.4 sites [6.8 acres/30 sites] * 2100 gpd/acre (regional park) * 40% vegetated (estimated- aerial, existing youth camp) = 190 gpd/site

Link to Original File \\TPCW5033\PROJDATA\PCOSD-02.5\02_BackgroundData\Outside Document Library\utilities\Fiesta island water wastewater.xlsx

Project (138 Campsites)								Biogenic
	Days	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	CO ₂
		lbs/year						
25% occupied non-winter weekday	179	1,423	4	20,335	227	2,134	1,808	315,869
75% occupied non-winter weekend	64	1,526	4	21,812	244	2,289	1,940	338,810
100% occupied summer (June-Sept)	122	3,879	11	55,438	620	5,819	4,930	861,141
Total	lbs/year	6,828	19	97,584	1,091	10,242	8,677	1,515,820
Total	Tons/year	3.4	0.01	49	0.55	5.1	4.3	758
							MTCO ₂ e	688

Project Emission Rates		lbs/day	18.7	Youth	Primitive	Group	Beach	
				24.1	2.8	4.4	43	pits
VOC Emissions	lbs/hr	0.78	9.74E+04	1.12E+04	1.78E+04	m ²		
for HRA analysis	g/s	0.098	2.48E-07	1.90E-06	1.24E-06	g/s/m ²	7.12E-04	g/s/pit
			77.1%	8.9%	14.1%	%		

While Campsites may include other sources of emissions, such as campstoves (propane and butane), campfires are assumed to be the greatest source of emissions associated with campgrounds. Consequently, these other minor sources of emissions are nominal in comparison. Other sources of energy use are included in the CalEEMod inventory and include natural gas use from the general park facilities.

Pavement Volume to Weight Conversion

Location	Total SF of Area ¹	Assumed Thickness (foot) ²	Roadway Debris Volume (cu. ft)	Weight of Asphalt Concrete (lbs/cf) ³	AC Mass (lbs)	AC Mass (tons)
Roadway Phase 1	17,663	0.33	5,888	140	824,264	412
Roadway Phase 6	35,276	0.33	11,759	140	1,646,232	823.12
		0.25	0	45	-	0.00
		0.33	0	140	-	0.00
		0.25	0	45	-	0.00
		0.375	0			0.00
					TOTAL	1,235

¹ Based on total lot square footage of Specific Plan area subtracted by total non-residential square footage and total multi-family square footage.

² *Pavements and Surface Materials*. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut Cooperative Extension System, 1999.

³ <http://www.reade.com/reade-resources/reference-educational/reade-reference-chart-particle-property-briefings/26-weight-per-cubic-foot-and-specific-gravity-metals-minerals-organics-inorganics-ceramics>

Daily Construction Trips - Phase 1

Phase	Daily Worker Trips	Daily Vendor Trips	Total Hauling Trips	Daily Hauling Trips	Total Daily Trips	PhaseStartDate	PhaseEndDate	NumDays
P1 Demolition	15	2	786	13	30	2018/01/01	2018/03/23	60
P1 Site Preparation	18	2	0	0	20	2018/03/26	2018/05/04	30
P1Grading	20	2	3130	52	74	2018/05/07	2018/07/27	60
P1 Building Construction	578	246	0	0	824	2018/07/28	2021/01/22	650
P1 Architectural Coating	116	0	0	0	116	2019/07/28	2021/12/24	630
P2 Demolition	15	2	958	16	33	2021/01/01	2021/03/25	60
P1 Paving	15	0	0	0	15	2021/01/23	2021/03/19	40
P2 Site Preparation	18	2	0	0	20	2021/03/26	2021/05/20	40
P2 Grading	20	2	1408	23	45	2021/05/21	2021/08/12	60
P2 Building Construction	378	158	0	0	536	2021/08/13	2025/01/23	900
P2 Architectural Coating	76	0	0	0	76	2022/08/13	2025/12/26	880
P2 Paving	15	0	0	0	15	2025/01/24	2025/04/17	60

	Daily Worker Trips	Daily Vendor Trips	Daily Hauling Trips	Total Daily Trips
P1Demo	15	2	13	30
P1Site Pre	18	2	0	20
P1 Grading	20	2	52	74
P1BC	578	246	0	824
P1BCAC	694	246	0	940
P1BCACP2Demo	709	248	16	973
P1ACPaveP2Demo	146	2	16	164
P1ACP2Demo	131	2	16	149
P1ACP2SitePrep	134	2	0	136
P1ACP2Grade	136	2	23	161
P1ACP2BC	494	158	0	652
P2BCAC	454	158	0	612
P2ACPave	91	0	0	91
			Maximum Daily Trips	973

Construction Phasing

5-Day Work Week

CalEEMod Default Schedule

Phase Name*	Start Date	End Date	CalEEMod Days
Demolition	1/1/2018	11/29/2019	500
Site Preparation	11/30/2019	1/22/2021	300
Grading	1/23/2021	1/12/2024	775
Building Construction	1/13/2024	9/26/2053	7,750
Paving	9/27/2053	11/5/2055	550
Architectural Coating	11/6/2055	12/14/2057	550
Duration			8.0 years

Adjusted CalEEMod Default Schedule - Normalized for 20 year Buildout

Phase Name	Start Date	End Date	CalEEMod Days
Demolition	1/1/2018	10/4/2022	1242
Site Preparation	10/5/2022	8/12/2025	745
Grading	8/13/2025	12/29/2032	1,926
Building Construction	12/30/2032	12/29/2032	
Paving	12/30/2032	3/26/2038	1,367
Architectural Coating***	3/29/2038	3/29/2038	
			20.0

*CalEEMod default schedule.

**Assumes duration as 33 percent of the Building Construction phase duration.

Existing Uses	Acres
Circulation and Parking	16.17
Sand Management Area	21.81
Open Beach	54.41
Parkland	169.72
Native Vegetation	0.00
Non-Native Vegetation (Not Turf Either)	169.72
Regional Park	0.00
Playfields/Sand Recreation	31.03
Youth Camping	23.58
Primitive Camping	0.00
Habitat Preserve / Dunes	38.32
Upland Preserve	0.00
Wetlands Habitat	0.00
Undesignated Water	29.66
Eelgrass Habitat	0.00
Boat Storage	0.00
Pier	0.00
Primary Fenced Leash Free Area	93.86
Open Beach	15.30
Swimming Beach	0.00
Parkland (Non-native Veg)	78.56
Parkland (Native Veg)	0.00
Developed Dog Park	0.00
Total	478.55

Roads (Linear Feet)	
Existing	24,657
New	0
Remove	0
Dirt	0
Trails(Linear Feet)	
MultiPurpose	--
Soft Surface	-
Infrastructure (Linear Feet)	
Water	-
Sewer	-
Electricity	-
Fire Rings (Count)	
New	-
Existing	77

Adopted Plan Uses	Acres
Circulation and Parking	41.68
Sand Management Area	0.00
Open Beach	128.90
Parkland	83.66
Native Vegetation	0.00
Non-Native Vegetation (Not Turf Either)	0.00
Regional Park	83.66
Playfields/Sand Recreation	28.21
Youth Camping	25.19
Primitive Camping	19.74
Habitat Preserve / Dunes	103.02
Upland Preserve	0.00
Wetlands Habitat	0.00
Undesignated Water	48.15
Eelgrass Habitat	0.00
Boat Storage	0.00
Pier	0.00
Primary Fenced Leash Free Area	0.00
Open Beach	0.00
Swimming Beach	0.00
Parkland (Non-native Veg)	0.00
Parkland (Native Veg)	0.00
Developed Dog Park	0.00
Total	478.55

Option A Uses	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
Circulation and Parking	6.52	1.17	1.60	7.71	2.77
Sand Management Area	6.96	0.00	0.00	0.00	0.00
Open Beach	0.00	0.00	0.00	0.00	0.00
Parkland	22.71	5.77	0.00	55.09	7.15
Native Vegetation	22.71	5.77	0.00	50.14	7.15
Non-Native Vegetation (Not Turf Either)	0.00	0.00	0.00	0.00	0.00
Regional Park	0.00	0.00	0.00	4.95	0.00
Playfields/Sand Recreation	0.00	0.00	0.00	0.00	29.19
Youth Camping	0.00	0.00	0.00	0.00	0.00
Primitive Camping	0.00	0.00	0.00	6.78	0.00
Habitat Preserve / Dunes	12.58	0.70	0.00	19.64	1.00
Upland Preserve	11.06	0.00	0.00	0.00	0.00
Wetlands Habitat	15.54	15.22	0.00	0.00	0.00
Undesignated Water	0.00	0.00	0.00	0.00	0.00
Eelgrass Habitat	0.00	4.26	0.00	0.00	0.00
Boat Storage	0.00	0.00	0.00	0.00	0.00
Pier	0.00	0.00	0.00	0.00	0.00
Primary Fenced Leash Free Area	0.00	0.00	13.92	0.00	0.00
Open Beach	0.00	0.00	0.00	0.00	0.00
Swimming Beach	0.00	0.00	0.00	0.00	0.00
Parkland (Non-native Veg)	0.00	0.00	0.00	0.00	0.00
Parkland (Native Veg)	0.00	0.00	9.03	0.00	0.00
Developed Dog Park	0.00	0.00	4.89	0.00	0.00
Total Acres	75.37	27.11	15.52	89.22	40.11

Roads (Linear Feet)					
Existing	9,426	532	--	5,747	4,188
New	2,201	--	--	3,026	--
Remove	1,472	--	--	--	--
Dirt	1,575	--	--	--	--
Trails(Linear Feet)					
MultiPurpose	7,281	4,899	3,755	14,893	5,782
Soft Surface	9,096	1,662	4,426	12,891	--
Infrastructure (Linear Feet)					
Water	--	--	7,957	--	--
Sewer	--	--	7,957	--	--
Electricity	--	--	7,957	--	--
Fire Rings (Count)					
New	--	--	--	--	61
Existing	--	--	--	--	--

Phase 6	Phase 7	Phase 0	Total
4.58	3.65	4.26	32.24
0.00	0.00	0.00	6.96
0.00	0.00	49.42	49.42
15.16	3.89	1.30	111.06
0.96	0.00	0.00	86.72
0.00	0.00	1.30	1.30
14.20	3.89	0.00	23.05
0.00	0.00	0.00	29.19
0.00	0.00	22.28	22.28
0.00	0.00	0.00	6.78
0.00	0.00	5.12	39.05
0.00	0.00	34.62	45.68
0.00	0.00	14.87	45.63
0.00	0.00	0.00	0.00
0.00	0.00	0.00	4.26
0.00	0.98	0.00	0.98
0.00	0.07	0.00	0.07
0.00	17.14	53.89	84.95
0.00	0.00	13.34	13.34
0.00	1.77	0.00	1.77
0.00	0.00	40.55	40.55
0.00	15.37	0.00	24.40
0.00	0.00	0.00	4.89
19.74	25.72	185.76	478.55

352	--	--	20,246
2,474	1,739	--	9,440
2,940	--	--	4,412
--	--	--	1,575
4,629	5,065	--	46,304
--	19,075	--	47,149
--	2,369	--	10,325
--	2,369	--	10,325
--	2,369	--	10,325
--	--	--	61
--	--	77	77

Option B Uses	Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6	Phase 7	Phase 0	Total
Circulation and Parking	6.52	1.17	1.60	7.71	2.77	4.58	1.53	4.26	30.13
Sand Management Area	6.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.96
Open Beach	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49.17	49.17
Parkland	22.71	5.77	0.00	55.09	7.15	15.16	0.00	0.00	105.88
Native Vegetation	22.71	5.77	0.00	50.14	7.15	0.96	0.00	0.00	86.72
Non-Native Vegetation (Not Turf Either)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Regional Park	0.00	0.00	0.00	4.95	0.00	14.20	0.00	0.00	19.15
Playfields/Sand Recreation	0.00	0.00	0.00	0.00	29.19	0.00	0.00	0.00	29.19
Youth Camping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.28	22.28
Primitive Camping	0.00	0.00	0.00	6.78	0.00	0.00	0.00	0.00	6.78
Habitat Preserve / Dunes	12.58	0.70	0.00	19.64	1.00	0.00	0.00	5.12	39.05
Upland Preserve	11.06	0.00	0.00	0.00	0.00	0.00	0.00	34.62	45.68
Wetlands Habitat	15.54	15.22	0.00	0.00	0.00	0.00	0.00	3.70	34.46
Undesignated Water	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.22	11.22
Eelgrass Habitat	0.00	4.26	0.00	0.00	0.00	0.00	0.00	0.00	4.26
Boat Storage	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Pier	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Primary Fenced Leash Free Area	0.00	0.00	2.87	0.00	0.00	0.00	0.00	90.62	93.50
Open Beach	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.30	15.30
Swimming Beach	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parkland (Non-native Veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	75.33	75.33
Parkland (Native Veg)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Developed Dog Park	0.00	0.00	2.87	0.00	0.00	0.00	0.00	0.00	2.87
Total Acres	75.37	27.11	4.47	89.22	40.11	19.74	1.53	221.00	478.55

[illegible]

Construction Estimate Worksheet (Summary Output CalEEMod): Options A and B

Year	Phase	ROG	Emissions (pounds per day)				PM10	PM2.5
			NOX	CO	SO2			
CalEEMod								
2018	Demolition	4	39	23	0	2	2	
2018	Site Preparation	5	49	23	0	10	7	
2018	Grading	17	450	121	1	28	11	
2018	Building Construction	2	16	15	0	2	1	
2018	Paving	2	18	15	0	1	1	
2018	Architectural Coating	3	2	2	0	0	0	
Dredging								
	Barge	1	9	3	0	1	1	
Peak Daily Total		33	583	203	1	44	22	
Regional Significance Thresholds		137	250	550	250	100	55	
Exceeds Threshold?		No	Yes	No	No	No	No	

CalEEMod Emissions

Year	Phase	ROG	Emissions (pounds per day)*				PM10	PM2.5
			NOX	CO	SO2			
2018	Demolition	3.81	38.99	22.96	0.04		2.19	1.86
2018	Site Preparation	4.66	48.52	23.16	0.04		10.45	6.66
2018	Grading	16.62	449.90	121.39	1.04		28.40	11.04
2018	Building Construction	1.79	16.26	14.84	0.03		1.54	0.99
2019	Building Construction	1.61	14.99	14.46	0.03		1.43	0.89
2020	Building Construction	1.46	13.78	14.13	0.03		1.34	0.80
2018	Paving	2.36	17.57	15.31	0.02		1.07	0.91
2018	Architectural Coating	3.08	2.05	2.33	0.00		0.26	0.18

* Highest emissions between the calculated winter/summer emissions.

Regional Operation Emissions Worksheet: Existing (2017)

Criteria Air Pollutants

Summer

Source	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.4294	4.70E-04	0.05	0.00E+00	1.80E-04	1.80E-04
Energy	0	0	0	0	0	0
Mobile	16.9426	61.8336	178.52	0.4645	34.7847	9.7023
Total	17.37	61.8341	178.57	0.4645	34.7849	9.7024

Winter

Source	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.4294	4.70E-04	0.05	0.00E+00	1.80E-04	1.80E-04
Energy	0	0	0	0	0	0
Mobile	16.6492	63.8195	179.82	0.4402	34.7913	9.7086
Total	17.08	63.8199	179.87	0.4402	34.7915	9.7088

Max Daily

Source	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.42940	0.00047	0.04980	0	0.00018	0.00018
Energy	0	0	0	0	0	0
Mobile	17	64	180	0.4645	35	10
Campfires	18	0	254	3	27	23
Total	35	64	433	3	61	32

GHG Emissions

Source	Buildout MTons/Year	Percent of Project Total
Area	0.01	0.00%
Energy	16	0.23%
Mobile	6,500	93.31%
Waste	16	0.23%
Water	50	0.72%
Campfires	384	5.51%
Total All Sectors	6,966	100%

Regional Operation Emissions Worksheet: Buildout Option A

Existing - 2035

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.429	4.40E-04	0.05	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	6.4141	28.8188	69.8814	0.2992	34.3074	9.2645
Total	6.84	28.8192	69.93	0.2992	34.3075	9.2647

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.429	4.40E-04	0.05	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	6.2043	29.1637	69.3268	0.2841	34.3078	9.265
Total	6.63	29.1641	69.38	0.2841	34.308	9.2652

Maximum Emissions

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.429	0.00044	0.049	0	0.00017	0.00017
Energy	0	0	0	0	0	0
Mobile	6.414	29.164	69.881	0.299	34.308	9.265
Campfires	17.741	0.049	253.546	2.834	26.611	22.546
Total	24.584	29.213	323.476	3.133	60.919	31.811

Regional Thresholds

Exceeds Thresholds?	55	55	550	150	150	55
	No	No	No	No	No	No

Buildout - Year 2035

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.6572	4.40E-04	0.0486	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	7.2759	32.6909	79.2707	0.3394	38.9169	10.5093
Total	7.9331	32.6913	79.3193	0.3394	38.9171	10.5095

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.6572	4.40E-04	0.0486	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	7.038	33.0821	78.6416	0.3223	38.9174	10.5098
Total	7.6951	33.0825	78.6902	0.3223	38.9176	10.51

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.657	0.00044	0.049	0	0.00017	0.00017
Energy	0	0	0	0	0	0
Mobile	7.276	33.082	79.271	0.339	38.917	10.50980
Total	7.933	33.083	79.319	0.339	38.918	10.510

Combined

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.657	0.00044	0.049	0	0.00017	0.00017
Energy	0	0	0	0	0	0
Mobile	7.276	33.082	79.271	0.339	38.917	10.510
Campfires	31.795	0.088	454.406	5.078	47.693	40.406
Total	39.728	33.171	533.726	5.418	86.610	50.916

Net Difference

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.228	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	0.862	3.918	9.389	0.040	4.610	1.245
Campfires	14.054	0.039	200.861	2.245	21.082	17.861
Total	15.144	3.957	210.250	2.285	25.691	19.106
if San Diego Significance Thresholds	137	250	550	250	100	55
Exceeds Thresholds?	No	No	No	No	No	No

Construction + Operation (Worst-Case)

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Construction	33.377	582.555	202.910	1.182	44.422	22.152
Operation	15.144	3.957	210.250	2.285	25.691	19.106
Total	48.522	586.512	413.160	3.467	70.114	41.258
if San Diego Significance Thresholds	137	250	550	250	100	55
Exceeds Thresholds?	No	Yes	No	No	No	No

Regional Operation Emissions Worksheet: Buildout Option B

Existing - 2035

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.429	4.40E-04	0.05	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	6.4141	28.8188	69.8814	0.2992	34.3074	9.2645
Total	6.84	28.8192	69.93	0.2992	34.3075	9.2647

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.429	4.40E-04	0.05	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	6.2043	29.1637	69.3268	0.2841	34.3078	9.265
Total	6.63	29.1641	69.38	0.2841	34.308	9.2652

Maximum Emissions

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.429	0.00044	0.049	0	0.00017	0.00017
Energy	0	0	0	0	0	0
Mobile	6.414	29.164	69.881	0.299	34.308	9.265
Campfires	17.741	0.049	253.546	2.834	26.611	22.546
Total	24.584	29.213	323.476	3.133	60.919	31.811

Regional Thresholds

Exceeds Thresholds?	55	55	550	150	150	55
	No	No	No	No	No	No

Buildout - Year 2035

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.6366	4.40E-04	0.0486	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	6.9262	31.1199	75.4613	0.3231	37.0467	10.0043
Total	7.5629	31.1203	75.5098	0.3231	37.0469	10.0045

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.6366	4.40E-04	0.0486	0.00E+00	1.70E-04	1.70E-04
Energy	0	0	0	0	0	0
Mobile	6.6997	31.4923	74.8624	0.3068	37.0472	10.0048
Total	7.3364	31.4927	74.911	0.3068	37.0474	10.005

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.637	0.00044	0.049	0	0.00017	0.00017
Energy	0	0	0	0	0	0
Mobile	6.926	31.492	75.461	0.323	37.047	10.005
Total	7.563	31.493	75.510	0.323	37.047	10.005

Combined

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.637	0.00044	0.049	0	0.00017	0.00017
Energy	0	0	0	0	0	0
Mobile	6.926	31.492	75.461	0.323	37.047	10.005
Campfires	31.795	0.088	454.406	5.078	47.693	40.406
Total	39.358	31.581	529.916	5.402	84.740	50.411

Net Difference

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.208	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	0.512	2.329	5.580	0.024	2.739	0.740
Campfires	14.054	0.039	200.861	2.245	21.082	17.861
Total	14.774	2.368	206.441	2.269	23.821	18.601
if San Diego Significance Thresholds	137	250	550	250	100	55
Exceeds Thresholds?	No	No	No	No	No	No

Construction + Operation (Worst-Case)

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Construction	33.377	582.555	202.910	1.182	44.422	22.152
Operation	14.774	2.368	206.441	2.269	23.821	18.601
Total	48.151	584.922	409.351	3.450	68.243	40.753
if San Diego Significance Thresholds	137	250	550	250	100	55
Exceeds Thresholds?	No	Yes	No	No	No	No

COMMERCIAL HARBOR CRAFT EMISSIONS

	HP	LF	Hour/Day	Start Day	End Day	Days of Use
Deck Barge	150	0.45	2	1/1/2018	4/9/2018	70

EMISSION RATES (grams/hp-hr)

	HP Range	TEIR	AE ROG	AE NOx	AE CO	AE PM	CO ₂	Fuel
Barge	175<HP<=250	0	1.60	14.00	4.40	0.77	568.30	213.19

Source OFFROAD2011 - Commercial Harborcraft. Tier 0 - based on 1969 model year equipment

EMISSIONS

	lbs/day						MT
	ROG	NOX	CO	PM10 ¹	PM2.5 ¹	CO ₂	CO ₂
Barge	1	9	3	1	0	376	12
	1	9	3	1	0	376	12

Notes

Based on South Coast Air Quality Management District. 2006, October. Final Methodology to Calculate PM2.5 and PM2.5 Significance Thresholds. <http://www.aqmd.gov/home/regulations/ceqa/air-quality-1-analysis-handbook/pm-2-5-significance-thresholds-and-calculation-methodology>. PM2.5 is 92% of PM10 for off-road diesel equipment. PM10 is 100% of total PM for off-road diesel equipment.

Conversion Factors

g to lbs	0.0022046
lbs to tons	2000
tons to MT	0.9071847
kw to hp	0.745699872

While Campsites may include other sources of emissions, such as campstoves (propane and butane), campfires are assumed to be the greatest source of emissions associated with campgrounds. Consequently, these other minor sources of emissions are nominal in comparison. Other sources of energy use are included in the CalEEMod inventory and include natural gas use from the general park facilities.

Construction - San Diego County, Annual

Construction

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.52	Acre	6.52	0.00	0
Other Non-Asphalt Surfaces	46.14	Acre	46.14	0.00	0
Parking Lot	163.95	1000sqft	3.76	163,947.00	0
City Park	22.71	Acre	22.71	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - See construction assumptions worksheet for details.

Off-road Equipment - Assumed construction equipment mix for development phases other than Phase 2.

Trips and VMT - Assumes a water truck per day and two daily trips per truck.

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Based on SDAPCD Rule 55.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	NumDays	1,550.00	592.00
tblConstructionPhase	NumDays	100.00	38.00
tblConstructionPhase	NumDays	155.00	59.00
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	NumDays	60.00	23.00
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.57	0.00

tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00

tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblGrading	MaterialExported	0.00	356,691.00
tblGrading	MaterialImported	0.00	215,979.00
tblLandUse	BuildingSpaceSquareFeet	284,011.20	0.00
tblLandUse	BuildingSpaceSquareFeet	2,009,858.40	0.00
tblLandUse	BuildingSpaceSquareFeet	163,950.00	163,947.00
tblLandUse	GreenSpaceSquareFeet	989,247.60	0.00
tblLandUse	LandUseSquareFeet	284,011.20	0.00

tblLandUse	LandUseSquareFeet	2,009,858.40	0.00
tblLandUse	LandUseSquareFeet	163,950.00	163,947.00
tblLandUse	LandUseSquareFeet	989,247.60	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

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	0.9527	17.2251	6.4820	0.0363	1.2311	0.3237	1.5548	0.4252	0.3030	0.7281	0.0000	3,527.3110	3,527.3110	0.4078	0.0000	3,537.5064
2019	0.2057	1.9627	1.8799	3.9700e-003	0.0956	0.0966	0.1922	0.0259	0.0913	0.1173	0.0000	361.1838	361.1838	0.0544	0.0000	362.5425
2020	0.0500	0.4838	0.4928	1.0600e-003	0.0256	0.0225	0.0482	6.9600e-003	0.0213	0.0282	0.0000	95.3905	95.3905	0.0143	0.0000	95.7474
Maximum	0.9527	17.2251	6.4820	0.0363	1.2311	0.3237	1.5548	0.4252	0.3030	0.7281	0.0000	3,527.3110	3,527.3110	0.4078	0.0000	3,537.5064

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					
2018	0.9527	17.2251	6.4820	0.0363	0.9401	0.3237	1.2638	0.2952	0.3030	0.5981	0.0000	3,527.3104	3,527.3104	0.4078	0.0000	3,537.5057
2019	0.2057	1.9627	1.8799	3.9700e-003	0.0956	0.0966	0.1922	0.0259	0.0913	0.1173	0.0000	361.1835	361.1835	0.0544	0.0000	362.5422
2020	0.0500	0.4838	0.4928	1.0600e-003	0.0256	0.0225	0.0482	6.9600e-003	0.0213	0.0282	0.0000	95.3904	95.3904	0.0143	0.0000	95.7473
Maximum	0.9527	17.2251	6.4820	0.0363	0.9401	0.3237	1.2638	0.2952	0.3030	0.5981	0.0000	3,527.3104	3,527.3104	0.4078	0.0000	3,537.5057

	ROG	NOx	CO	SO2	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	21.52	0.00	16.21	28.38	0.00	14.88	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	12-25-2017	3-24-2018	15.9341	15.9341
3	3-25-2018	6-24-2018	0.5914	0.5914
4	6-25-2018	9-24-2018	0.5912	0.5912
5	9-25-2018	12-24-2018	0.5871	0.5871
6	12-25-2018	3-24-2019	0.5378	0.5378
7	3-25-2019	6-24-2019	0.5440	0.5440
8	6-25-2019	9-24-2019	0.5439	0.5439
9	9-25-2019	12-24-2019	0.5400	0.5400
10	12-25-2019	3-24-2020	0.4992	0.4992
11	3-25-2020	6-24-2020	0.0761	0.0761
		Highest	15.9341	15.9341

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	1/1/2018	2/21/2018	5	38	
2	Site Preparation	Site Preparation	1/1/2018	1/31/2018	5	23	
3	Grading	Grading	1/1/2018	3/22/2018	5	59	
4	Building Construction	Building Construction	1/1/2018	4/7/2020	5	592	
5	Paving	Paving	1/1/2018	2/27/2018	5	42	
6	Architectural Coating	Architectural Coating	1/1/2018	2/27/2018	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 147.5

Acres of Paving: 56.42

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,837

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48

Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Skid Steer Loaders	3	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	41.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	71,584.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	69.00	27.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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					4.4600e-003	0.0000	4.4600e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0707	0.7281	0.4238	7.4000e-004		0.0368	0.0368		0.0343	0.0343	0.0000	66.7357	66.7357	0.0184	0.0000	67.1954
Total	0.0707	0.7281	0.4238	7.4000e-004	4.4600e-003	0.0368	0.0413	6.8000e-004	0.0343	0.0350	0.0000	66.7357	66.7357	0.0184	0.0000	67.1954

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	1.9000e-004	6.6600e-003	1.3900e-003	2.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6155	1.6155	1.5000e-004	0.0000	1.6191
Vendor	2.0000e-004	5.0700e-003	1.4000e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	1.0171	1.0171	8.0000e-005	0.0000	1.0192
Worker	1.2200e-003	9.6000e-004	9.2500e-003	2.0000e-005	2.2900e-003	2.0000e-005	2.3000e-003	6.1000e-004	2.0000e-005	6.2000e-004	0.0000	2.1996	2.1996	8.0000e-005	0.0000	2.2015
Total	1.6100e-003	0.0127	0.0120	5.0000e-005	2.8900e-003	9.0000e-005	2.9700e-003	7.8000e-004	8.0000e-005	8.5000e-004	0.0000	4.8321	4.8321	3.1000e-004	0.0000	4.8398

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					1.9100e-003	0.0000	1.9100e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0707	0.7281	0.4238	7.4000e-004		0.0368	0.0368		0.0343	0.0343	0.0000	66.7357	66.7357	0.0184	0.0000	67.1953
Total	0.0707	0.7281	0.4238	7.4000e-004	1.9100e-003	0.0368	0.0387	2.9000e-004	0.0343	0.0346	0.0000	66.7357	66.7357	0.0184	0.0000	67.1953

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	1.9000e-004	6.6600e-003	1.3900e-003	2.0000e-005	3.5000e-004	3.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6155	1.6155	1.5000e-004	0.0000	1.6191
Vendor	2.0000e-004	5.0700e-003	1.4000e-003	1.0000e-005	2.5000e-004	4.0000e-005	2.9000e-004	7.0000e-005	4.0000e-005	1.1000e-004	0.0000	1.0171	1.0171	8.0000e-005	0.0000	1.0192
Worker	1.2200e-003	9.6000e-004	9.2500e-003	2.0000e-005	2.2900e-003	2.0000e-005	2.3000e-003	6.1000e-004	2.0000e-005	6.2000e-004	0.0000	2.1996	2.1996	8.0000e-005	0.0000	2.2015
Total	1.6100e-003	0.0127	0.0120	5.0000e-005	2.8900e-003	9.0000e-005	2.9700e-003	7.8000e-004	8.0000e-005	8.5000e-004	0.0000	4.8321	4.8321	3.1000e-004	0.0000	4.8398

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					0.2078	0.0000	0.2078	0.1142	0.0000	0.1142	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5543	0.2585	4.4000e-004		0.0296	0.0296		0.0273	0.0273	0.0000	39.9739	39.9739	0.0124	0.0000	40.2850
Total	0.0525	0.5543	0.2585	4.4000e-004	0.2078	0.0296	0.2374	0.1142	0.0273	0.1415	0.0000	39.9739	39.9739	0.0124	0.0000	40.2850

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.0700e-003	8.4000e-004	1.0000e-005	1.5000e-004	2.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.6156	0.6156	5.0000e-005	0.0000	0.6169
Worker	8.8000e-004	7.0000e-004	6.7200e-003	2.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5976	1.5976	6.0000e-005	0.0000	1.5990
Total	1.0000e-003	3.7700e-003	7.5600e-003	3.0000e-005	1.8100e-003	3.0000e-005	1.8500e-003	4.8000e-004	3.0000e-005	5.2000e-004	0.0000	2.2132	2.2132	1.1000e-004	0.0000	2.2158

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					
Fugitive Dust					0.0888	0.0000	0.0888	0.0488	0.0000	0.0488	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0525	0.5543	0.2585	4.4000e-004		0.0296	0.0296		0.0273	0.0273	0.0000	39.9739	39.9739	0.0124	0.0000	40.2850
Total	0.0525	0.5543	0.2585	4.4000e-004	0.0888	0.0296	0.1185	0.0488	0.0273	0.0761	0.0000	39.9739	39.9739	0.0124	0.0000	40.2850

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.0700e-003	8.4000e-004	1.0000e-005	1.5000e-004	2.0000e-005	1.8000e-004	4.0000e-005	2.0000e-005	7.0000e-005	0.0000	0.6156	0.6156	5.0000e-005	0.0000	0.6169
Worker	8.8000e-004	7.0000e-004	6.7200e-003	2.0000e-005	1.6600e-003	1.0000e-005	1.6700e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5976	1.5976	6.0000e-005	0.0000	1.5990
Total	1.0000e-003	3.7700e-003	7.5600e-003	3.0000e-005	1.8100e-003	3.0000e-005	1.8500e-003	4.8000e-004	3.0000e-005	5.2000e-004	0.0000	2.2132	2.2132	1.1000e-004	0.0000	2.2158

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					0.2961	0.0000	0.2961	0.1122	0.0000	0.1122	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1502	1.7559	1.0351	1.8300e-003		0.0777	0.0777		0.0715	0.0715	0.0000	167.1131	167.1131	0.0520	0.0000	168.4137
Total	0.1502	1.7559	1.0351	1.8300e-003	0.2961	0.0777	0.3738	0.1122	0.0715	0.1837	0.0000	167.1131	167.1131	0.0520	0.0000	168.4137

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	0.3316	11.6194	2.4244	0.0286	0.6125	0.0452	0.6577	0.1682	0.0433	0.2115	0.0000	2,820.5285	2,820.5285	0.2545	0.0000	2,826.8910
Vendor	3.1000e-004	7.8800e-003	2.1700e-003	2.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.5792	1.5792	1.3000e-004	0.0000	1.5824
Worker	2.5200e-003	2.0000e-003	0.0192	5.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	4.5535	4.5535	1.6000e-004	0.0000	4.5574
Total	0.3344	11.6293	2.4457	0.0287	0.6176	0.0453	0.6629	0.1696	0.0434	0.2130	0.0000	2,826.6611	2,826.6611	0.2548	0.0000	2,833.0309

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					0.1266	0.0000	0.1266	0.0480	0.0000	0.0480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.1502	1.7559	1.0351	1.8300e-003		0.0777	0.0777		0.0715	0.0715	0.0000	167.1129	167.1129	0.0520	0.0000	168.4135
Total	0.1502	1.7559	1.0351	1.8300e-003	0.1266	0.0777	0.2043	0.0480	0.0715	0.1194	0.0000	167.1129	167.1129	0.0520	0.0000	168.4135

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	0.3316	11.6194	2.4244	0.0286	0.6125	0.0452	0.6577	0.1682	0.0433	0.2115	0.0000	2,820.5285	2,820.5285	0.2545	0.0000	2,826.8910
Vendor	3.1000e-004	7.8800e-003	2.1700e-003	2.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.5792	1.5792	1.3000e-004	0.0000	1.5824
Worker	2.5200e-003	2.0000e-003	0.0192	5.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	4.5535	4.5535	1.6000e-004	0.0000	4.5574
Total	0.3344	11.6293	2.4457	0.0287	0.6176	0.0453	0.6629	0.1696	0.0434	0.2130	0.0000	2,826.6611	2,826.6611	0.2548	0.0000	2,833.0309

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1715	1.6282	1.5082	2.2700e-003		0.1066	0.1066		0.1008	0.1008	0.0000	202.2114	202.2114	0.0453	0.0000	203.3442
Total	0.1715	1.6282	1.5082	2.2700e-003		0.1066	0.1066		0.1008	0.1008	0.0000	202.2114	202.2114	0.0453	0.0000	203.3442

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	0.0185	0.4704	0.1294	9.7000e-004	0.0234	3.6600e-003	0.0270	6.7500e-003	3.5000e-003	0.0103	0.0000	94.3096	94.3096	7.7700e-003	0.0000	94.5039
Worker	0.0385	0.0305	0.2923	7.7000e-004	0.0722	5.3000e-004	0.0727	0.0192	4.9000e-004	0.0197	0.0000	69.4945	69.4945	2.4000e-003	0.0000	69.5545
Total	0.0570	0.5008	0.4216	1.7400e-003	0.0956	4.1900e-003	0.0998	0.0259	3.9900e-003	0.0299	0.0000	163.8041	163.8041	0.0102	0.0000	164.0583

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	0.1715	1.6282	1.5082	2.2700e-003		0.1066	0.1066		0.1008	0.1008	0.0000	202.2112	202.2112	0.0453	0.0000	203.3439
Total	0.1715	1.6282	1.5082	2.2700e-003		0.1066	0.1066		0.1008	0.1008	0.0000	202.2112	202.2112	0.0453	0.0000	203.3439

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	0.0185	0.4704	0.1294	9.7000e-004	0.0234	3.6600e-003	0.0270	6.7500e-003	3.5000e-003	0.0103	0.0000	94.3096	94.3096	7.7700e-003	0.0000	94.5039
Worker	0.0385	0.0305	0.2923	7.7000e-004	0.0722	5.3000e-004	0.0727	0.0192	4.9000e-004	0.0197	0.0000	69.4945	69.4945	2.4000e-003	0.0000	69.5545
Total	0.0570	0.5008	0.4216	1.7400e-003	0.0956	4.1900e-003	0.0998	0.0259	3.9900e-003	0.0299	0.0000	163.8041	163.8041	0.0102	0.0000	164.0583

3.5 Building Construction - 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	0.1537	1.4932	1.4976	2.2700e-003		0.0930	0.0930		0.0879	0.0879	0.0000	200.1738	200.1738	0.0447	0.0000	201.2905
Total	0.1537	1.4932	1.4976	2.2700e-003		0.0930	0.0930		0.0879	0.0879	0.0000	200.1738	200.1738	0.0447	0.0000	201.2905

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	0.0165	0.4423	0.1188	9.6000e-004	0.0234	3.0600e-003	0.0265	6.7500e-003	2.9300e-003	9.6800e-003	0.0000	93.6116	93.6116	7.5100e-003	0.0000	93.7995
Worker	0.0355	0.0272	0.2635	7.5000e-004	0.0722	5.3000e-004	0.0727	0.0192	4.9000e-004	0.0197	0.0000	67.3984	67.3984	2.1700e-003	0.0000	67.4526
Total	0.0520	0.4695	0.3823	1.7100e-003	0.0956	3.5900e-003	0.0992	0.0259	3.4200e-003	0.0294	0.0000	161.0100	161.0100	9.6800e-003	0.0000	161.2520

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	0.1537	1.4932	1.4976	2.2700e-003		0.0930	0.0930		0.0879	0.0879	0.0000	200.1735	200.1735	0.0447	0.0000	201.2903
Total	0.1537	1.4932	1.4976	2.2700e-003		0.0930	0.0930		0.0879	0.0879	0.0000	200.1735	200.1735	0.0447	0.0000	201.2903

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	0.0165	0.4423	0.1188	9.6000e-004	0.0234	3.0600e-003	0.0265	6.7500e-003	2.9300e-003	9.6800e-003	0.0000	93.6116	93.6116	7.5100e-003	0.0000	93.7995
Worker	0.0355	0.0272	0.2635	7.5000e-004	0.0722	5.3000e-004	0.0727	0.0192	4.9000e-004	0.0197	0.0000	67.3984	67.3984	2.1700e-003	0.0000	67.4526
Total	0.0520	0.4695	0.3823	1.7100e-003	0.0956	3.5900e-003	0.0992	0.0259	3.4200e-003	0.0294	0.0000	161.0100	161.0100	9.6800e-003	0.0000	161.2520

3.5 Building Construction - 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	0.0375	0.3695	0.3996	6.1000e-004		0.0219	0.0219		0.0207	0.0207	0.0000	52.9498	52.9498	0.0118	0.0000	53.2458
Total	0.0375	0.3695	0.3996	6.1000e-004		0.0219	0.0219		0.0207	0.0207	0.0000	52.9498	52.9498	0.0118	0.0000	53.2458

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-003	0.1077	0.0286	2.6000e-004	6.2700e-003	5.3000e-004	6.8000e-003	1.8100e-003	5.0000e-004	2.3100e-003	0.0000	24.9349	24.9349	1.9100e-003	0.0000	24.9827
Worker	8.9000e-003	6.5900e-003	0.0646	1.9000e-004	0.0194	1.4000e-004	0.0195	5.1500e-003	1.3000e-004	5.2700e-003	0.0000	17.5057	17.5057	5.3000e-004	0.0000	17.5189
Total	0.0125	0.1143	0.0932	4.5000e-004	0.0256	6.7000e-004	0.0263	6.9600e-003	6.3000e-004	7.5800e-003	0.0000	42.4407	42.4407	2.4400e-003	0.0000	42.5016

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	0.0375	0.3695	0.3996	6.1000e-004		0.0219	0.0219		0.0207	0.0207	0.0000	52.9497	52.9497	0.0118	0.0000	53.2458
Total	0.0375	0.3695	0.3996	6.1000e-004		0.0219	0.0219		0.0207	0.0207	0.0000	52.9497	52.9497	0.0118	0.0000	53.2458

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.6000e-003	0.1077	0.0286	2.6000e-004	6.2700e-003	5.3000e-004	6.8000e-003	1.8100e-003	5.0000e-004	2.3100e-003	0.0000	24.9349	24.9349	1.9100e-003	0.0000	24.9827
Worker	8.9000e-003	6.5900e-003	0.0646	1.9000e-004	0.0194	1.4000e-004	0.0195	5.1500e-003	1.3000e-004	5.2700e-003	0.0000	17.5057	17.5057	5.3000e-004	0.0000	17.5189
Total	0.0125	0.1143	0.0932	4.5000e-004	0.0256	6.7000e-004	0.0263	6.9600e-003	6.3000e-004	7.5800e-003	0.0000	42.4407	42.4407	2.4400e-003	0.0000	42.5016

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	0.0345	0.3679	0.3107	4.8000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	43.7044	43.7044	0.0136	0.0000	44.0446
Paving	0.0135					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0480	0.3679	0.3107	4.8000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	43.7044	43.7044	0.0136	0.0000	44.0446

Unmitigated Construction Off-Site

[illegible]

Worker	1.3500e-003	1.0700e-003	0.0102	3.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.4311	2.4311	8.0000e-005	0.0000	2.4332
Total	1.3500e-003	1.0700e-003	0.0102	3.0000e-005	2.5300e-003	2.0000e-005	2.5400e-003	6.7000e-004	2.0000e-005	6.9000e-004	0.0000	2.4311	2.4311	8.0000e-005	0.0000	2.4332

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0570					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2700e-003	0.0421	0.0389	6.0000e-005		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	5.3618	5.3618	5.1000e-004	0.0000	5.3746
Total	0.0633	0.0421	0.0389	6.0000e-005		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	5.3618	5.3618	5.1000e-004	0.0000	5.3746

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	1.2600e-003	9.9000e-004	9.5400e-003	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.2690	2.2690	8.0000e-005	0.0000	2.2710

Total	1.2600e-003	9.9000e-004	9.5400e-003	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.2690	2.2690	8.0000e-005	0.0000	2.2710
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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	0.0570					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2700e-003	0.0421	0.0389	6.0000e-005		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	5.3618	5.3618	5.1000e-004	0.0000	5.3746
Total	0.0633	0.0421	0.0389	6.0000e-005		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	5.3618	5.3618	5.1000e-004	0.0000	5.3746

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	1.2600e-003	9.9000e-004	9.5400e-003	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.2690	2.2690	8.0000e-005	0.0000	2.2710
Total	1.2600e-003	9.9000e-004	9.5400e-003	3.0000e-005	2.3600e-003	2.0000e-005	2.3800e-003	6.3000e-004	2.0000e-005	6.4000e-004	0.0000	2.2690	2.2690	8.0000e-005	0.0000	2.2710

Construction - San Diego County, Summer

Construction

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.52	Acre	6.52	0.00	0
Other Non-Asphalt Surfaces	46.14	Acre	46.14	0.00	0
Parking Lot	163.95	1000sqft	3.76	163,947.00	0
City Park	22.71	Acre	22.71	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - See construction assumptions worksheet for details.

Off-road Equipment - Assumed construction equipment mix for development phases other than Phase 2.

Trips and VMT - Assumes a water truck per day and two daily trips per truck.

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Based on SDAPCD Rule 55.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	NumDays	1,550.00	592.00
tblConstructionPhase	NumDays	100.00	38.00
tblConstructionPhase	NumDays	155.00	59.00
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	NumDays	60.00	23.00
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00

tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.4520e-003	0.00

tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblGrading	MaterialExported	0.00	356,691.00
tblGrading	MaterialImported	0.00	215,979.00
tblLandUse	BuildingSpaceSquareFeet	284,011.20	0.00
tblLandUse	BuildingSpaceSquareFeet	2,009,858.40	0.00
tblLandUse	BuildingSpaceSquareFeet	163,950.00	163,947.00
tblLandUse	GreenSpaceSquareFeet	989,247.60	0.00
tblLandUse	LandUseSquareFeet	284,011.20	0.00
tblLandUse	LandUseSquareFeet	2,009,858.40	0.00

tblLandUse	LandUseSquareFeet	163,950.00	163,947.00
tblLandUse	LandUseSquareFeet	989,247.60	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	31.9126	569.1145	194.0611	1.1816	51.0224	10.6351	61.6574	19.9782	9.8957	29.8739	0.0000	126,797.5493	126,797.5493	14.8156	0.0000	127,167.9376
2019	1.5728	14.9792	14.4753	0.0308	0.7496	0.7400	1.4896	0.2030	0.6997	0.9027	0.0000	3,090.5165	3,090.5165	0.4582	0.0000	3,101.9712
2020	1.4249	13.7733	14.1480	0.0306	0.7496	0.6431	1.3927	0.2030	0.6079	0.8108	0.0000	3,043.0369	3,043.0369	0.4489	0.0000	3,054.2583
Maximum	31.9126	569.1145	194.0611	1.1816	51.0224	10.6351	61.6574	19.9782	9.8957	29.8739	0.0000	126,797.5493	126,797.5493	14.8156	0.0000	127,167.9376

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	31.9126	569.1145	194.0611	1.1816	34.7987	10.6351	45.4337	12.0953	9.8957	21.9909	0.0000	126,797.5493	126,797.5493	14.8156	0.0000	127,167.9375
2019	1.5728	14.9792	14.4753	0.0308	0.7496	0.7400	1.4896	0.2030	0.6997	0.9027	0.0000	3,090.5165	3,090.5165	0.4582	0.0000	3,101.9712
2020	1.4249	13.7733	14.1480	0.0306	0.7496	0.6431	1.3927	0.2030	0.6079	0.8108	0.0000	3,043.0369	3,043.0369	0.4489	0.0000	3,054.2583
Maximum	31.9126	569.1145	194.0611	1.1816	34.7987	10.6351	45.4337	12.0953	9.8957	21.9909	0.0000	126,797.5493	126,797.5493	14.8156	0.0000	127,167.9375

	ROG	NOx	CO	SO2	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	30.89	0.00	25.14	38.67	0.00	24.96	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	1/1/2018	2/21/2018	5	38	
2	Site Preparation	Site Preparation	1/1/2018	1/31/2018	5	23	
3	Grading	Grading	1/1/2018	3/22/2018	5	59	
4	Building Construction	Building Construction	1/1/2018	4/7/2020	5	592	
5	Paving	Paving	1/1/2018	2/27/2018	5	42	
6	Architectural Coating	Architectural Coating	1/1/2018	2/27/2018	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 147.5

Acres of Paving: 56.42

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,837

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Skid Steer Loaders	3	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	41.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	71,584.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	69.00	27.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Fugitive Dust					0.2349	0.0000	0.2349	0.0356	0.0000	0.0356			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	0.2349	1.9386	2.1735	0.0356	1.8048	1.8404		3,871.7665	3,871.7665	1.0667		3,898.4344

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8800e-003	0.3432	0.0708	8.7000e-004	0.0189	1.3500e-003	0.0202	5.1700e-003	1.2900e-003	6.4600e-003		94.3814	94.3814	8.3200e-003		94.5894
Vendor	0.0103	0.2635	0.0698	5.6000e-004	0.0135	2.0600e-003	0.0156	3.9000e-003	1.9700e-003	5.8700e-003		59.6380	59.6380	4.7300e-003		59.7561
Worker	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988
Total	0.0840	0.6527	0.6541	2.7800e-003	0.1556	4.3000e-003	0.1599	0.0418	4.0800e-003	0.0458		288.6031	288.6031	0.0177		289.0444

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1004	0.0000	0.1004	0.0152	0.0000	0.0152			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	0.1004	1.9386	2.0390	0.0152	1.8048	1.8200	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8800e-003	0.3432	0.0708	8.7000e-004	0.0189	1.3500e-003	0.0202	5.1700e-003	1.2900e-003	6.4600e-003		94.3814	94.3814	8.3200e-003		94.5894
Vendor	0.0103	0.2635	0.0698	5.6000e-004	0.0135	2.0600e-003	0.0156	3.9000e-003	1.9700e-003	5.8700e-003		59.6380	59.6380	4.7300e-003		59.7561
Worker	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988
Total	0.0840	0.6527	0.6541	2.7800e-003	0.1556	4.3000e-003	0.1599	0.0418	4.0800e-003	0.0458		288.6031	288.6031	0.0177		289.0444

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0103	0.2635	0.0698	5.6000e-004	0.0135	2.0600e-003	0.0156	3.9000e-003	1.9700e-003	5.8700e-003		59.6380	59.6380	4.7300e-003		59.7561
Worker	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386
Total	0.0869	0.3187	0.6860	2.1800e-003	0.1614	3.1200e-003	0.1645	0.0431	2.9500e-003	0.0461		221.1384	221.1384	0.0103		221.3947

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	7.7233	2.5769	10.3002	4.2454	2.3708	6.6161	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0103	0.2635	0.0698	5.6000e-004	0.0135	2.0600e-003	0.0156	3.9000e-003	1.9700e-003	5.8700e-003		59.6380	59.6380	4.7300e-003		59.7561
Worker	0.0766	0.0552	0.6162	1.6200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		161.5004	161.5004	5.5300e-003		161.6386
Total	0.0869	0.3187	0.6860	2.1800e-003	0.1614	3.1200e-003	0.1645	0.0431	2.9500e-003	0.0461		221.1384	221.1384	0.0103		221.3947

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	lb/day										lb/day					
Fugitive Dust					10.0373	0.0000	10.0373	3.8030	0.0000	3.8030			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	10.0373	2.6337	12.6710	3.8030	2.4230	6.2261		6,244.4284	6,244.4284	1.9440		6,293.0278

Unmitigated Construction Off-Site

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

Hauling	11.1060	385.9146	79.5922	0.9759	21.2013	1.5180	22.7193	5.8104	1.4523	7.2627		106,132.9310	106,132.9310	9.3557		106,366.8230
Vendor	0.0103	0.2635	0.0698	5.6000e-004	0.0135	2.0600e-003	0.0156	3.9000e-003	1.9700e-003	5.8700e-003		59.6380	59.6380	4.7300e-003		59.7561
Worker	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984
Total	11.2014	386.2394	80.3466	0.9783	21.3791	1.5213	22.9004	5.8579	1.4554	7.3133		106,372.0138	106,372.0138	9.3666		106,606.1775

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.2909	0.0000	4.2909	1.6258	0.0000	1.6258			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	4.2909	2.6337	6.9247	1.6258	2.4230	4.0488	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	11.1060	385.9146	79.5922	0.9759	21.2013	1.5180	22.7193	5.8104	1.4523	7.2627		106,132.9310	106,132.9310	9.3557		106,366.8230

Vendor	0.0103	0.2635	0.0698	5.6000e-004	0.0135	2.0600e-003	0.0156	3.9000e-003	1.9700e-003	5.8700e-003		59.6380	59.6380	4.7300e-003		59.7561
Worker	0.0851	0.0613	0.6847	1.8000e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		179.4449	179.4449	6.1400e-003		179.5984
Total	11.2014	386.2394	80.3466	0.9783	21.3791	1.5213	22.9004	5.8579	1.4554	7.3133		106,372.0138	106,372.0138	9.3666		106,606.1775

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	lb/day										lb/day					
Off-Road	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725		1,708.0453	1,708.0453	0.3827		1,717.6134
Total	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725		1,708.0453	1,708.0453	0.3827		1,717.6134

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1392	3.5574	0.9420	7.5200e-003	0.1828	0.0278	0.2106	0.0526	0.0266	0.0792		805.1126	805.1126	0.0638		806.7079

Worker	0.2937	0.2115	2.3621	6.2200e-003	0.5668	4.0800e-003	0.5709	0.1504	3.7600e-003	0.1541		619.0850	619.0850	0.0212		619.6145
Total	0.4329	3.7689	3.3041	0.0137	0.7496	0.0319	0.7815	0.2030	0.0304	0.2333		1,424.1976	1,424.1976	0.0850		1,426.3225

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725	0.0000	1,708.0453	1,708.0453	0.3827		1,717.6134
Total	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725	0.0000	1,708.0453	1,708.0453	0.3827		1,717.6134

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1392	3.5574	0.9420	7.5200e-003	0.1828	0.0278	0.2106	0.0526	0.0266	0.0792		805.1126	805.1126	0.0638		806.7079
Worker	0.2937	0.2115	2.3621	6.2200e-003	0.5668	4.0800e-003	0.5709	0.1504	3.7600e-003	0.1541		619.0850	619.0850	0.0212		619.6145

Total	0.4329	3.7689	3.3041	0.0137	0.7496	0.0319	0.7815	0.2030	0.0304	0.2333		1,424.1976	1,424.1976	0.0850		1,426.3225
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3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737		1,690.8338	1,690.8338	0.3773		1,700.2665
Total	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737		1,690.8338	1,690.8338	0.3773		1,700.2665

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1243	3.3477	0.8643	7.4500e-003	0.1828	0.0233	0.2061	0.0526	0.0223	0.0749		799.2449	799.2449	0.0617		800.7876
Worker	0.2709	0.1891	2.1349	6.0300e-003	0.5668	4.0400e-003	0.5709	0.1504	3.7200e-003	0.1541		600.4378	600.4378	0.0192		600.9171
Total	0.3952	3.5368	2.9992	0.0135	0.7496	0.0273	0.7769	0.2030	0.0260	0.2290		1,399.6827	1,399.6827	0.0809		1,401.7047

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737	0.0000	1,690.8338	1,690.8338	0.3773		1,700.2665
Total	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737	0.0000	1,690.8338	1,690.8338	0.3773		1,700.2665

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1243	3.3477	0.8643	7.4500e-003	0.1828	0.0233	0.2061	0.0526	0.0223	0.0749		799.2449	799.2449	0.0617		800.7876
Worker	0.2709	0.1891	2.1349	6.0300e-003	0.5668	4.0400e-003	0.5709	0.1504	3.7200e-003	0.1541		600.4378	600.4378	0.0192		600.9171
Total	0.3952	3.5368	2.9992	0.0135	0.7496	0.0273	0.7769	0.2030	0.0260	0.2290		1,399.6827	1,399.6827	0.0809		1,401.7047

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900		1,667.6332	1,667.6332	0.3729		1,676.9564
Total	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900		1,667.6332	1,667.6332	0.3729		1,676.9564

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1009	3.0445	0.7756	7.3900e-003	0.1828	0.0149	0.1977	0.0526	0.0143	0.0669		793.9082	793.9082	0.0586		795.3724
Worker	0.2532	0.1706	1.9559	5.8400e-003	0.5668	3.9800e-003	0.5708	0.1504	3.6600e-003	0.1540		581.4955	581.4955	0.0174		581.9296
Total	0.3541	3.2151	2.7315	0.0132	0.7496	0.0189	0.7685	0.2030	0.0179	0.2209		1,375.4037	1,375.4037	0.0759		1,377.3019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900	0.0000	1,667.6332	1,667.6332	0.3729		1,676.9564
Total	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900	0.0000	1,667.6332	1,667.6332	0.3729		1,676.9564

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1009	3.0445	0.7756	7.3900e-003	0.1828	0.0149	0.1977	0.0526	0.0143	0.0669		793.9082	793.9082	0.0586		795.3724
Worker	0.2532	0.1706	1.9559	5.8400e-003	0.5668	3.9800e-003	0.5708	0.1504	3.6600e-003	0.1540		581.4955	581.4955	0.0174		581.9296
Total	0.3541	3.2151	2.7315	0.0132	0.7496	0.0189	0.7685	0.2030	0.0179	0.2209		1,375.4037	1,375.4037	0.0759		1,377.3019

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
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Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.6413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2850	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988
Total	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988

Mitigated Construction On-Site

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

Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.6413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2850	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988
Total	0.0639	0.0460	0.5135	1.3500e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		134.5837	134.5837	4.6100e-003		134.6988

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	3.0126	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0596	0.0429	0.4793	1.2600e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		125.6114	125.6114	4.3000e-003		125.7189
Total	0.0596	0.0429	0.4793	1.2600e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		125.6114	125.6114	4.3000e-003		125.7189

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Total	3.0126	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0596	0.0429	0.4793	1.2600e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		125.6114	125.6114	4.3000e-003		125.7189
Total	0.0596	0.0429	0.4793	1.2600e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		125.6114	125.6114	4.3000e-003		125.7189

Construction - San Diego County, Winter

Construction

San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.52	Acre	6.52	0.00	0
Other Non-Asphalt Surfaces	46.14	Acre	46.14	0.00	0
Parking Lot	163.95	1000sqft	3.76	163,947.00	0
City Park	22.71	Acre	22.71	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018

Utility Company

CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - .

Construction Phase - See construction assumptions worksheet for details.

Off-road Equipment - Assumed construction equipment mix for development phases other than Phase 2.

Trips and VMT - Assumes a water truck per day and two daily trips per truck.

Demolition -

Grading -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Construction Off-road Equipment Mitigation - Based on SDAPCD Rule 55.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	NumDays	1,550.00	592.00
tblConstructionPhase	NumDays	100.00	38.00
tblConstructionPhase	NumDays	155.00	59.00
tblConstructionPhase	NumDays	110.00	42.00
tblConstructionPhase	NumDays	60.00	23.00
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	HHD	0.02	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00

tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDA	0.57	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT1	0.05	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	LHD2	5.6460e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MCY	6.3850e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.4520e-003	0.00

tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MH	1.4520e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	OBUS	1.8710e-003	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	SBUS	7.3900e-004	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblFleetMix	UBUS	2.1730e-003	0.00
tblGrading	MaterialExported	0.00	356,691.00
tblGrading	MaterialImported	0.00	215,979.00
tblLandUse	BuildingSpaceSquareFeet	284,011.20	0.00
tblLandUse	BuildingSpaceSquareFeet	2,009,858.40	0.00
tblLandUse	BuildingSpaceSquareFeet	163,950.00	163,947.00
tblLandUse	GreenSpaceSquareFeet	989,247.60	0.00
tblLandUse	LandUseSquareFeet	284,011.20	0.00
tblLandUse	LandUseSquareFeet	2,009,858.40	0.00

tblLandUse	LandUseSquareFeet	163,950.00	163,947.00
tblLandUse	LandUseSquareFeet	989,247.60	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	32.3220	573.3100	199.9068	1.1643	51.0224	10.6715	61.6939	19.9782	9.9305	29.9087	0.0000	124,927.1828	124,927.1828	15.1691	0.0000	125,306.4094
2019	1.6136	15.0052	14.4519	0.0303	0.7496	0.7404	1.4900	0.2030	0.7001	0.9030	0.0000	3,033.4550	3,033.4550	0.4611	0.0000	3,044.9835
2020	1.4632	13.7918	14.1213	0.0300	0.7496	0.6434	1.3930	0.2030	0.6081	0.8111	0.0000	2,986.9623	2,986.9623	0.4516	0.0000	2,998.2523
Maximum	32.3220	573.3100	199.9068	1.1643	51.0224	10.6715	61.6939	19.9782	9.9305	29.9087	0.0000	124,927.1828	124,927.1828	15.1691	0.0000	125,306.4094

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2018	32.3220	573.3100	199.9068	1.1643	34.7987	10.6715	45.4701	12.0953	9.9305	22.0258	0.0000	124,927.1827	124,927.1827	15.1691	0.0000	125,306.4094
2019	1.6136	15.0052	14.4519	0.0303	0.7496	0.7404	1.4900	0.2030	0.7001	0.9030	0.0000	3,033.4550	3,033.4550	0.4611	0.0000	3,044.9835
2020	1.4632	13.7918	14.1213	0.0300	0.7496	0.6434	1.3930	0.2030	0.6081	0.8111	0.0000	2,986.9623	2,986.9623	0.4516	0.0000	2,998.2522
Maximum	32.3220	573.3100	199.9068	1.1643	34.7987	10.6715	45.4701	12.0953	9.9305	22.0258	0.0000	124,927.1827	124,927.1827	15.1691	0.0000	125,306.4094

	ROG	NOx	CO	SO2	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	30.89	0.00	25.12	38.67	0.00	24.93	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	1/1/2018	2/21/2018	5	38	
2	Site Preparation	Site Preparation	1/1/2018	1/31/2018	5	23	
3	Grading	Grading	1/1/2018	3/22/2018	5	59	
4	Building Construction	Building Construction	1/1/2018	4/7/2020	5	592	
5	Paving	Paving	1/1/2018	2/27/2018	5	42	
6	Architectural Coating	Architectural Coating	1/1/2018	2/27/2018	5	42	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 147.5

Acres of Paving: 56.42

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 9,837

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Skid Steer Loaders	3	8.00	65	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	2.00	41.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	2.00	71,584.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	69.00	27.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved 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	lb/day										lb/day					
Fugitive Dust					0.2349	0.0000	0.2349	0.0356	0.0000	0.0356			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048		3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	0.2349	1.9386	2.1735	0.0356	1.8048	1.8404		3,871.7665	3,871.7665	1.0667		3,898.4344

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0102	0.3469	0.0761	8.5000e-004	0.0189	1.3800e-003	0.0202	5.1700e-003	1.3200e-003	6.4900e-003		92.8152	92.8152	8.6300e-003		93.0310
Vendor	0.0108	0.2640	0.0772	5.4000e-004	0.0135	2.1000e-003	0.0156	3.9000e-003	2.0000e-003	5.9000e-003		58.1396	58.1396	5.0300e-003		58.2654
Worker	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586
Total	0.0930	0.6625	0.6404	2.6600e-003	0.1556	4.3700e-003	0.1600	0.0418	4.1400e-003	0.0459		277.3039	277.3039	0.0180		277.7549

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1004	0.0000	0.1004	0.0152	0.0000	0.0152			0.0000			0.0000
Off-Road	3.7190	38.3225	22.3040	0.0388		1.9386	1.9386		1.8048	1.8048	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344
Total	3.7190	38.3225	22.3040	0.0388	0.1004	1.9386	2.0390	0.0152	1.8048	1.8200	0.0000	3,871.7665	3,871.7665	1.0667		3,898.4344

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0102	0.3469	0.0761	8.5000e-004	0.0189	1.3800e-003	0.0202	5.1700e-003	1.3200e-003	6.4900e-003		92.8152	92.8152	8.6300e-003		93.0310
Vendor	0.0108	0.2640	0.0772	5.4000e-004	0.0135	2.1000e-003	0.0156	3.9000e-003	2.0000e-003	5.9000e-003		58.1396	58.1396	5.0300e-003		58.2654
Worker	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586
Total	0.0930	0.6625	0.6404	2.6600e-003	0.1556	4.3700e-003	0.1600	0.0418	4.1400e-003	0.0459		277.3039	277.3039	0.0180		277.7549

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	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0108	0.2640	0.0772	5.4000e-004	0.0135	2.1000e-003	0.0156	3.9000e-003	2.0000e-003	5.9000e-003		58.1396	58.1396	5.0300e-003		58.2654
Worker	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	0.0973	0.3259	0.6617	2.0600e-003	0.1614	3.1600e-003	0.1646	0.0431	2.9800e-003	0.0461		209.7585	209.7585	0.0103		210.0156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	7.7233	2.5769	10.3002	4.2454	2.3708	6.6161	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0108	0.2640	0.0772	5.4000e-004	0.0135	2.1000e-003	0.0156	3.9000e-003	2.0000e-003	5.9000e-003		58.1396	58.1396	5.0300e-003		58.2654
Worker	0.0866	0.0620	0.5845	1.5200e-003	0.1479	1.0600e-003	0.1489	0.0392	9.8000e-004	0.0402		151.6189	151.6189	5.2500e-003		151.7503
Total	0.0973	0.3259	0.6617	2.0600e-003	0.1614	3.1600e-003	0.1646	0.0431	2.9800e-003	0.0461		209.7585	209.7585	0.0103		210.0156

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	lb/day										lb/day					
Fugitive Dust					10.0373	0.0000	10.0373	3.8030	0.0000	3.8030			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	10.0373	2.6337	12.6710	3.8030	2.4230	6.2261		6,244.4284	6,244.4284	1.9440		6,293.0278

Unmitigated Construction Off-Site

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

Hauling	11.4245	390.0420	85.5759	0.9597	21.2013	1.5538	22.7551	5.8104	1.4866	7.2970		104,371.7488	104,371.7488	9.7062		104,614.4030
Vendor	0.0108	0.2640	0.0772	5.4000e-004	0.0135	2.1000e-003	0.0156	3.9000e-003	2.0000e-003	5.9000e-003		58.1396	58.1396	5.0300e-003		58.2654
Worker	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	11.5315	390.3749	86.3025	0.9619	21.3791	1.5571	22.9362	5.8579	1.4897	7.3476		104,598.3539	104,598.3539	9.7170		104,841.2798

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.2909	0.0000	4.2909	1.6258	0.0000	1.6258			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	4.2909	2.6337	6.9247	1.6258	2.4230	4.0488	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	11.4245	390.0420	85.5759	0.9597	21.2013	1.5538	22.7551	5.8104	1.4866	7.2970		104,371.7488	104,371.7488	9.7062		104,614.4030

Vendor	0.0108	0.2640	0.0772	5.4000e-004	0.0135	2.1000e-003	0.0156	3.9000e-003	2.0000e-003	5.9000e-003		58.1396	58.1396	5.0300e-003		58.2654
Worker	0.0962	0.0689	0.6495	1.6900e-003	0.1643	1.1800e-003	0.1655	0.0436	1.0900e-003	0.0447		168.4655	168.4655	5.8400e-003		168.6114
Total	11.5315	390.3749	86.3025	0.9619	21.3791	1.5571	22.9362	5.8579	1.4897	7.3476		104,598.3539	104,598.3539	9.7170		104,841.2798

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	lb/day										lb/day					
Off-Road	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725		1,708.0453	1,708.0453	0.3827		1,717.6134
Total	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725		1,708.0453	1,708.0453	0.3827		1,717.6134

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1451	3.5634	1.0422	7.3400e-003	0.1828	0.0283	0.2111	0.0526	0.0271	0.0797		784.8844	784.8844	0.0679		786.5824

Worker	0.3318	0.2376	2.2406	5.8400e-003	0.5668	4.0800e-003	0.5709	0.1504	3.7600e-003	0.1541		581.2058	581.2058	0.0201		581.7094
Total	0.4769	3.8010	3.2828	0.0132	0.7496	0.0324	0.7820	0.2030	0.0308	0.2338		1,366.0903	1,366.0903	0.0881		1,368.2917

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725	0.0000	1,708.0453	1,708.0453	0.3827		1,717.6134
Total	1.3145	12.4762	11.5573	0.0174		0.8169	0.8169		0.7725	0.7725	0.0000	1,708.0453	1,708.0453	0.3827		1,717.6134

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1451	3.5634	1.0422	7.3400e-003	0.1828	0.0283	0.2111	0.0526	0.0271	0.0797		784.8844	784.8844	0.0679		786.5824
Worker	0.3318	0.2376	2.2406	5.8400e-003	0.5668	4.0800e-003	0.5709	0.1504	3.7600e-003	0.1541		581.2058	581.2058	0.0201		581.7094

Total	0.4769	3.8010	3.2828	0.0132	0.7496	0.0324	0.7820	0.2030	0.0308	0.2338		1,366.0903	1,366.0903	0.0881		1,368.2917
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3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737		1,690.8338	1,690.8338	0.3773		1,700.2665
Total	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737		1,690.8338	1,690.8338	0.3773		1,700.2665

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1296	3.3504	0.9582	7.2700e-003	0.1828	0.0237	0.2065	0.0526	0.0227	0.0753		778.9507	778.9507	0.0656		780.5918
Worker	0.3064	0.2124	2.0175	5.6600e-003	0.5668	4.0400e-003	0.5709	0.1504	3.7200e-003	0.1541		563.6705	563.6705	0.0182		564.1252
Total	0.4360	3.5627	2.9758	0.0129	0.7496	0.0277	0.7773	0.2030	0.0264	0.2294		1,342.6212	1,342.6212	0.0838		1,344.7170

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737	0.0000	1,690.8338	1,690.8338	0.3773		1,700.2665
Total	1.1776	11.4424	11.4761	0.0174		0.7126	0.7126		0.6737	0.6737	0.0000	1,690.8338	1,690.8338	0.3773		1,700.2665

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1296	3.3504	0.9582	7.2700e-003	0.1828	0.0237	0.2065	0.0526	0.0227	0.0753		778.9507	778.9507	0.0656		780.5918
Worker	0.3064	0.2124	2.0175	5.6600e-003	0.5668	4.0400e-003	0.5709	0.1504	3.7200e-003	0.1541		563.6705	563.6705	0.0182		564.1252
Total	0.4360	3.5627	2.9758	0.0129	0.7496	0.0277	0.7773	0.2030	0.0264	0.2294		1,342.6212	1,342.6212	0.0838		1,344.7170

3.5 Building Construction - 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	lb/day										lb/day					
Off-Road	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900		1,667.6332	1,667.6332	0.3729		1,676.9564
Total	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900		1,667.6332	1,667.6332	0.3729		1,676.9564

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1057	3.0420	0.8608	7.2000e-003	0.1828	0.0152	0.1980	0.0526	0.0145	0.0671		773.4480	773.4480	0.0622		775.0039
Worker	0.2868	0.1915	1.8440	5.4800e-003	0.5668	3.9800e-003	0.5708	0.1504	3.6600e-003	0.1540		545.8811	545.8811	0.0164		546.2919
Total	0.3924	3.2336	2.7048	0.0127	0.7496	0.0192	0.7688	0.2030	0.0182	0.2212		1,319.3290	1,319.3290	0.0787		1,321.2958

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900	0.0000	1,667.6332	1,667.6332	0.3729		1,676.9564
Total	1.0708	10.5582	11.4165	0.0174		0.6242	0.6242		0.5900	0.5900	0.0000	1,667.6332	1,667.6332	0.3729		1,676.9564

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1057	3.0420	0.8608	7.2000e-003	0.1828	0.0152	0.1980	0.0526	0.0145	0.0671		773.4480	773.4480	0.0622		775.0039
Worker	0.2868	0.1915	1.8440	5.4800e-003	0.5668	3.9800e-003	0.5708	0.1504	3.6600e-003	0.1540		545.8811	545.8811	0.0164		546.2919
Total	0.3924	3.2336	2.7048	0.0127	0.7496	0.0192	0.7688	0.2030	0.0182	0.2212		1,319.3290	1,319.3290	0.0787		1,321.2958

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
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Category	lb/day										lb/day					
Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.6413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2850	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797		2,294.0887	2,294.0887	0.7142		2,311.9432

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586
Total	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586

Mitigated Construction On-Site

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

Off-Road	1.6437	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432
Paving	0.6413					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.2850	17.5209	14.7964	0.0228		0.9561	0.9561		0.8797	0.8797	0.0000	2,294.0887	2,294.0887	0.7142		2,311.9432

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586
Total	0.0721	0.0516	0.4871	1.2700e-003	0.1232	8.9000e-004	0.1241	0.0327	8.2000e-004	0.0335		126.3491	126.3491	4.3800e-003		126.4586

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	3.0126	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0482	0.4546	1.1800e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		117.9258	117.9258	4.0900e-003		118.0280
Total	0.0673	0.0482	0.4546	1.1800e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		117.9258	117.9258	4.0900e-003		118.0280

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7140					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	3.0126	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0673	0.0482	0.4546	1.1800e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		117.9258	117.9258	4.0900e-003		118.0280
Total	0.0673	0.0482	0.4546	1.1800e-003	0.1150	8.3000e-004	0.1158	0.0305	7.6000e-004	0.0313		117.9258	117.9258	4.0900e-003		118.0280

Construction - San Diego County, Summary Report

Construction

San Diego, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	22.71	Acre	22.71	0.00	0
Other Non-Asphalt Surfaces	46.14	Acre	46.14	0.00	0
Other Asphalt Surfaces	6.52	Acre	6.52	0.00	0
Parking Lot	163.95	1000sqft	3.76	163,947.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2018

Utility Company

CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0
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1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - .

Construction Phase - See construction assumptions worksheet for details.

Off-road Equipment - Assumed construction equipment mix for development phases other than Phase 2.

Grading -

Construction Off-road Equipment Mitigation - Based on SDAPCD Rule 55.

[illegible]

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2018	3,527.0117	0.4077	0.0000	3,537.2048	3,527.0110	0.4077	0.0000	3,537.2042
Construction	2019	360.8892	0.0543	0.0000	362.2456	360.8889	0.0543	0.0000	362.2454
Construction	2020	95.3131	0.0143	0.0000	95.6694	95.3131	0.0143	0.0000	95.6694
	Total								
	Significance Threshold								
	Exceed Significance?								

Construction
San Diego County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	C02e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	0	No Change	0.00
Excavators	Diesel	No Change	0	5	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Skid Steer Loaders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	6.27000E-003	4.21200E-002	3.89400E-002	6.00000E-005	3.16000E-003	3.16000E-003	0.00000E+000	5.36184E+000	5.36184E+000	5.10000E-004	0.00000E+000	5.37457E+000
Concrete/Industrial Saws	9.87000E-003	7.43800E-002	7.07600E-002	1.20000E-004	5.07000E-003	5.07000E-003	0.00000E+000	1.02155E+001	1.02155E+001	7.90000E-004	0.00000E+000	1.02352E+001
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Excavators	3.35400E-002	3.59120E-001	3.79980E-001	6.00000E-004	1.74200E-002	1.60200E-002	0.00000E+000	5.46777E+001	5.46777E+001	1.70200E-002	0.00000E+000	5.51032E+001
Forklifts	1.47480E-001	1.31183E+000	1.06565E+000	1.36000E-003	1.02660E-001	9.44500E-002	0.00000E+000	1.22463E+002	1.22463E+002	3.85700E-002	0.00000E+000	1.23428E+002
Generator Sets	1.37860E-001	1.15156E+000	1.10457E+000	1.95000E-003	7.05300E-002	7.05300E-002	0.00000E+000	1.67301E+002	1.67301E+002	1.11100E-002	0.00000E+000	1.67579E+002
Graders	1.53300E-002	2.10260E-001	5.64800E-002	2.00000E-004	6.84000E-003	6.29000E-003	0.00000E+000	1.79288E+001	1.79288E+001	5.58000E-003	0.00000E+000	1.80683E+001
Pavers	1.37000E-002	1.51560E-001	1.22920E-001	2.00000E-004	7.41000E-003	6.81000E-003	0.00000E+000	1.80272E+001	1.80272E+001	5.61000E-003	0.00000E+000	1.81675E+001
Paving Equipment	9.99000E-003	1.11660E-001	1.06520E-001	1.70000E-004	5.47000E-003	5.03000E-003	0.00000E+000	1.56219E+001	1.56219E+001	4.86000E-003	0.00000E+000	1.57435E+001
Rollers	1.08300E-002	1.04720E-001	8.12900E-002	1.10000E-004	7.21000E-003	6.63000E-003	0.00000E+000	1.00553E+001	1.00553E+001	3.13000E-003	0.00000E+000	1.01335E+001
Rubber Tired Dozers	1.18940E-001	1.28111E+000	4.46400E-001	8.70000E-004	6.22800E-002	5.73000E-002	0.00000E+000	7.95942E+001	7.95942E+001	2.47800E-002	0.00000E+000	8.02137E+001
Scrapers	6.76700E-002	8.37300E-001	5.18420E-001	8.90000E-004	3.30000E-002	3.03600E-002	0.00000E+000	8.16131E+001	8.16131E+001	2.54100E-002	0.00000E+000	8.22483E+001
Skid Steer Loaders	7.73400E-002	1.02752E+000	1.23522E+000	1.84000E-003	4.82500E-002	4.43900E-002	0.00000E+000	1.65570E+002	1.65570E+002	5.21400E-002	0.00000E+000	1.66873E+002
Tractors/Loaders/Bac khoes	2.79400E-002	2.76120E-001	2.45360E-001	3.30000E-004	1.95600E-002	1.80000E-002	0.00000E+000	2.97933E+001	2.97933E+001	9.28000E-003	0.00000E+000	3.00251E+001
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.86061E-006
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.78907E-007	9.78907E-007	0.00000E+000	0.00000E+000	9.77017E-007
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28023E-006	1.28023E-006	0.00000E+000	0.00000E+000	1.27034E-006
Forklifts	0.00000E+000	7.62288E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14320E-006	1.14320E-006	0.00000E+000	0.00000E+000	1.21529E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19545E-006	1.19545E-006	0.00000E+000	0.00000E+000	1.19347E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.67329E-006	1.67329E-006	0.00000E+000	0.00000E+000	1.10691E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10944E-006	1.10944E-006	0.00000E+000	0.00000E+000	1.10087E-006

Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28025E-006	1.28025E-006	0.00000E+000	0.00000E+000	1.27037E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.98900E-006	1.98900E-006	0.00000E+000	0.00000E+000	1.97364E-006
Rubber Tired Dozers	0.00000E+000	7.80567E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25637E-006	1.25637E-006	0.00000E+000	0.00000E+000	1.24667E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22529E-006	1.22529E-006	0.00000E+000	0.00000E+000	1.09425E-006
Skid Steer Loaders	0.00000E+000	9.73208E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20795E-006	1.20795E-006	0.00000E+000	0.00000E+000	1.19851E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.34258E-006	1.34258E-006	0.00000E+000	0.00000E+000	9.99162E-007
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
No	Clean Paved Road	% PM Reduction	9.00			

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.22	0.06	0.22	0.06	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.57	0.57
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.30	0.11	0.13	0.05	0.57	0.57
Grading	Roads	0.62	0.17	0.62	0.17	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.21	0.11	0.09	0.05	0.57	0.57
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Construction P2_Building Construction - San Diego County, Annual

Construction P2_Building Construction

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.77	Acre	5.77	0.00	0
Other Non-Asphalt Surfaces	20.18	Acre	20.18	0.00	0
Other Asphalt Surfaces	1.17	Acre	1.17	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Assumes no square footage.

Construction Phase - Based on 7 development phases built out over a 20-year duration. Assumes equal duration for each development phase (i.e. 2.86 years each).

Off-road Equipment -

Grading -

Trips and VMT -

Construction Off-road Equipment Mitigation - Based on SDAPCD Rule 55.

Vehicle Emission Factors -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Assumes use a drill associated with

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	35.00	46.00
tblConstructionPhase	NumDays	440.00	577.00
tblConstructionPhase	NumDays	45.00	59.00
tblConstructionPhase	NumDays	35.00	46.00
tblConstructionPhase	NumDays	20.00	26.00
tblConstructionPhase	PhaseEndDate	1/17/2020	3/5/2018
tblConstructionPhase	PhaseEndDate	10/11/2019	3/17/2020
tblConstructionPhase	PhaseEndDate	2/2/2018	3/22/2018
tblConstructionPhase	PhaseEndDate	11/29/2019	3/5/2018
tblConstructionPhase	PhaseEndDate	12/1/2017	2/5/2018
tblConstructionPhase	PhaseStartDate	11/30/2019	1/1/2018
tblConstructionPhase	PhaseStartDate	2/3/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	12/2/2017	1/1/2018
tblConstructionPhase	PhaseStartDate	10/12/2019	1/1/2018
tblConstructionPhase	PhaseStartDate	11/4/2017	1/1/2018
tblGrading	MaterialImported	0.00	60,518.00
tblLandUse	LandUseSquareFeet	251,166.96	0.00

tblLandUse	LandUseSquareFeet	878,953.68	0.00
tblLandUse	LandUseSquareFeet	50,834.52	0.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblProjectCharacteristics	OperationalYear	2018	2020

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	0.6849	7.6662	4.5730	0.0108	0.5691	0.3528	0.9219	0.2561	0.3289	0.5850	0.0000	995.7808	995.7808	0.2198	0.0000	1,001.2747
2019	0.3448	3.2350	2.5110	4.7400e-003	0.0000	0.1821	0.1821	0.0000	0.1709	0.1709	0.0000	417.1359	417.1359	0.1097	0.0000	419.8771
2020	0.0660	0.6250	0.5208	1.0000e-003	0.0000	0.0335	0.0335	0.0000	0.0315	0.0315	0.0000	86.5037	86.5037	0.0229	0.0000	87.0766
Maximum	0.6849	7.6662	4.5730	0.0108	0.5691	0.3528	0.9219	0.2561	0.3289	0.5850	0.0000	995.7808	995.7808	0.2198	0.0000	1,001.2747

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
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Year	tons/yr										MT/yr					
2018	0.6849	7.6662	4.5730	0.0108	0.2806	0.3528	0.6334	0.1198	0.3289	0.4488	0.0000	995.7800	995.7800	0.2198	0.0000	1,001.2739
2019	0.3448	3.2350	2.5110	4.7400e-003	0.0000	0.1821	0.1821	0.0000	0.1709	0.1709	0.0000	417.1355	417.1355	0.1097	0.0000	419.8766
2020	0.0660	0.6250	0.5208	1.0000e-003	0.0000	0.0335	0.0335	0.0000	0.0315	0.0315	0.0000	86.5036	86.5036	0.0229	0.0000	87.0765
Maximum	0.6849	7.6662	4.5730	0.0108	0.2806	0.3528	0.6334	0.1198	0.3289	0.4488	0.0000	995.7800	995.7800	0.2198	0.0000	1,001.2739

	ROG	NOx	CO	SO2	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	50.69	0.00	25.36	53.21	0.00	17.31	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
2	12-25-2017	3-24-2018	5.1834	5.1834
3	3-25-2018	6-24-2018	1.0051	1.0051
4	6-25-2018	9-24-2018	1.0051	1.0051
5	9-25-2018	12-24-2018	0.9942	0.9942
6	12-25-2018	3-24-2019	0.8896	0.8896
7	3-25-2019	6-24-2019	0.9013	0.9013
8	6-25-2019	9-24-2019	0.9013	0.9013
9	9-25-2019	12-24-2019	0.8915	0.8915
10	12-25-2019	3-24-2020	0.7595	0.7595
		Highest	5.1834	5.1834

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
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1	Site Preparation	Site Preparation	1/1/2018	2/5/2018	5	26
2	Grading	Grading	1/1/2018	3/22/2018	5	59
3	Building Construction	Building Construction	1/1/2018	3/17/2020	5	577
4	Paving	Paving	1/1/2018	3/5/2018	5	46
5	Architectural Coating	Architectural Coating	1/1/2018	3/5/2018	5	46

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 147.5

Acres of Paving: 21.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37

Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
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
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	10	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	7,565.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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					0.2349	0.0000	0.2349	0.1291	0.0000	0.1291	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0593	0.6266	0.2922	4.9000e-004		0.0335	0.0335		0.0308	0.0308	0.0000	45.1879	45.1879	0.0141	0.0000	45.5396
Total	0.0593	0.6266	0.2922	4.9000e-004	0.2349	0.0335	0.2684	0.1291	0.0308	0.1599	0.0000	45.1879	45.1879	0.0141	0.0000	45.5396

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	1.0000e-003	7.9000e-004	7.6000e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.8060	1.8060	6.0000e-005	0.0000	1.8075
Total	1.0000e-003	7.9000e-004	7.6000e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.8060	1.8060	6.0000e-005	0.0000	1.8075

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					0.1004	0.0000	0.1004	0.0552	0.0000	0.0552	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Off-Road	0.0593	0.6266	0.2922	4.9000e-004		0.0335	0.0335		0.0308	0.0308	0.0000	45.1878	45.1878	0.0141	0.0000	45.5395
Total	0.0593	0.6266	0.2922	4.9000e-004	0.1004	0.0335	0.1339	0.0552	0.0308	0.0860	0.0000	45.1878	45.1878	0.0141	0.0000	45.5395

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	1.0000e-003	7.9000e-004	7.6000e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.8060	1.8060	6.0000e-005	0.0000	1.8075
Total	1.0000e-003	7.9000e-004	7.6000e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.8000e-004	0.0000	1.8060	1.8060	6.0000e-005	0.0000	1.8075

3.3 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					0.2601	0.0000	0.2601	0.1067	0.0000	0.1067	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1502	1.7559	1.0351	1.8300e-003		0.0777	0.0777		0.0715	0.0715	0.0000	167.1131	167.1131	0.0520	0.0000	168.4137

Total	0.1502	1.7559	1.0351	1.8300e-003	0.2601	0.0777	0.3378	0.1067	0.0715	0.1782	0.0000	167.1131	167.1131	0.0520	0.0000	168.4137
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0350	1.2279	0.2562	3.0200e-003	0.0647	4.7800e-003	0.0695	0.0178	4.5700e-003	0.0224	0.0000	298.0736	298.0736	0.0269	0.0000	298.7460
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	2.5200e-003	2.0000e-003	0.0192	5.0000e-005	4.7300e-003	3.0000e-005	4.7700e-003	1.2600e-003	3.0000e-005	1.2900e-003	0.0000	4.5535	4.5535	1.6000e-004	0.0000	4.5574
Total	0.0376	1.2299	0.2754	3.0700e-003	0.0695	4.8100e-003	0.0743	0.0190	4.6000e-003	0.0236	0.0000	302.6270	302.6270	0.0271	0.0000	303.3034

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					0.1112	0.0000	0.1112	0.0456	0.0000	0.0456	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1502	1.7559	1.0351	1.8300e-003		0.0777	0.0777		0.0715	0.0715	0.0000	167.1129	167.1129	0.0520	0.0000	168.4135
Total	0.1502	1.7559	1.0351	1.8300e-003	0.1112	0.0777	0.1889	0.0456	0.0715	0.1171	0.0000	167.1129	167.1129	0.0520	0.0000	168.4135

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	0.0350	1.2279	0.2562	3.0200e-003	0.0604	4.7800e-003	0.0651	0.0167	4.5700e-003	0.0213	0.0000	298.0736	298.0736	0.0269	0.0000	298.7460
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	2.5200e-003	2.0000e-003	0.0192	5.0000e-005	4.3600e-003	3.0000e-005	4.4000e-003	1.1700e-003	3.0000e-005	1.2000e-003	0.0000	4.5535	4.5535	1.6000e-004	0.0000	4.5574
Total	0.0376	1.2299	0.2754	3.0700e-003	0.0647	4.8100e-003	0.0695	0.0179	4.6000e-003	0.0225	0.0000	302.6270	302.6270	0.0271	0.0000	303.3034

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	0.3892	3.6027	2.5686	4.7400e-003		0.2113	0.2113		0.1983	0.1983	0.0000	422.6450	422.6450	0.1110	0.0000	425.4200
Total	0.3892	3.6027	2.5686	4.7400e-003		0.2113	0.2113		0.1983	0.1983	0.0000	422.6450	422.6450	0.1110	0.0000	425.4200

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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

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	0.3892	3.6027	2.5686	4.7400e-003		0.2113	0.2113		0.1983	0.1983	0.0000	422.6445	422.6445	0.1110	0.0000	425.4194
Total	0.3892	3.6027	2.5686	4.7400e-003		0.2113	0.2113		0.1983	0.1983	0.0000	422.6445	422.6445	0.1110	0.0000	425.4194

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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.4 Building Construction - 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	0.3448	3.2350	2.5110	4.7400e-003		0.1821	0.1821		0.1709	0.1709	0.0000	417.1359	417.1359	0.1097	0.0000	419.8771
Total	0.3448	3.2350	2.5110	4.7400e-003		0.1821	0.1821		0.1709	0.1709	0.0000	417.1359	417.1359	0.1097	0.0000	419.8771

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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

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	0.3448	3.2350	2.5110	4.7400e-003		0.1821	0.1821		0.1709	0.1709	0.0000	417.1355	417.1355	0.1097	0.0000	419.8766
Total	0.3448	3.2350	2.5110	4.7400e-003		0.1821	0.1821		0.1709	0.1709	0.0000	417.1355	417.1355	0.1097	0.0000	419.8766

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	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	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000

3.4 Building Construction - 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	0.0660	0.6250	0.5208	1.0000e-003		0.0335	0.0335		0.0315	0.0315	0.0000	86.5037	86.5037	0.0229	0.0000	87.0766
Total	0.0660	0.6250	0.5208	1.0000e-003		0.0335	0.0335		0.0315	0.0315	0.0000	86.5037	86.5037	0.0229	0.0000	87.0766

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					

Worker	1.4700e-003	1.1700e-003	0.0112	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.6626	2.6626	9.0000e-005	0.0000	2.6649
Total	1.4700e-003	1.1700e-003	0.0112	3.0000e-005	2.7700e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.6626	2.6626	9.0000e-005	0.0000	2.6649

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	0.0378	0.4030	0.3403	5.2000e-004		0.0220	0.0220		0.0202	0.0202	0.0000	47.8667	47.8667	0.0149	0.0000	48.2392
Paving	1.5300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0393	0.4030	0.3403	5.2000e-004		0.0220	0.0220		0.0202	0.0202	0.0000	47.8667	47.8667	0.0149	0.0000	48.2392

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	1.4700e-003	1.1700e-003	0.0112	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.6626	2.6626	9.0000e-005	0.0000	2.6649

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8700e-003	0.0461	0.0427	7.0000e-005		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	5.8725	5.8725	5.6000e-004	0.0000	5.8864
Total	6.8700e-003	0.0461	0.0427	7.0000e-005		3.4600e-003	3.4600e-003		3.4600e-003	3.4600e-003	0.0000	5.8725	5.8725	5.6000e-004	0.0000	5.8864

Mitigated Construction Off-Site

[illegible]

Construction P2_Building Construction - San Diego County, Summary Report

Construction P2_Building Construction

San Diego, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.77	Acre	5.77	0.00	0
Other Non-Asphalt Surfaces	20.18	Acre	20.18	0.00	0
Other Asphalt Surfaces	1.17	Acre	1.17	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Assumes no square footage.

Construction Phase - Based on 7 development phases built out over a 20-year duration. Assumes equal duration for each development phase (i.e. 2.86 years)

Off-road Equipment -

Grading -

Trips and VMT -

Off-road Equipment - Assumes use a drill associated with

Peak Daily Construction Emissions

[illegible]

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Construction	2018	995.7808	0.2198	0.0000	1,001.2747	995.7800	0.2198	0.0000	1,001.2739
Construction	2019	417.1359	0.1097	0.0000	419.8772	417.1354	0.1097	0.0000	419.8767
Construction	2020	86.5037	0.0229	0.0000	87.0766	86.5036	0.0229	0.0000	87.0765
	Total								
	Significance Threshold								
	Exceed Significance?								

Construction P2_Building Construction**San Diego County, Mitigation Report****Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Bore/Drill Rigs	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00

Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	6.87000E-003	4.61300E-002	4.26500E-002	7.00000E-005	3.46000E-003	3.46000E-003	0.00000E+000	5.87249E+000	5.87249E+000	5.60000E-004	0.00000E+000	5.88644E+000
Bore/Drill Rigs	8.38200E-002	1.13186E+000	6.02920E-001	2.72000E-003	3.20900E-002	2.95200E-002	0.00000E+000	2.45495E+002	2.45495E+002	7.72600E-002	0.00000E+000	2.47426E+002
Cranes	1.33630E-001	1.59451E+000	6.00700E-001	1.46000E-003	6.81300E-002	6.26800E-002	0.00000E+000	1.31513E+002	1.31513E+002	4.13900E-002	0.00000E+000	1.32548E+002
Excavators	1.70600E-002	1.82660E-001	1.93260E-001	3.00000E-004	8.86000E-003	8.15000E-003	0.00000E+000	2.78102E+001	2.78102E+001	8.66000E-003	0.00000E+000	2.80267E+001
Forklifts	1.44240E-001	1.28264E+000	1.03910E+000	1.32000E-003	1.00490E-001	9.24500E-002	0.00000E+000	1.19442E+002	1.19442E+002	3.75900E-002	0.00000E+000	1.20382E+002
Generator Sets	1.34870E-001	1.12547E+000	1.07678E+000	1.90000E-003	6.90600E-002	6.90600E-002	0.00000E+000	1.63062E+002	1.63062E+002	1.08700E-002	0.00000E+000	1.63334E+002
Graders	1.53300E-002	2.10260E-001	5.64800E-002	2.00000E-004	6.84000E-003	6.29000E-003	0.00000E+000	1.79288E+001	1.79288E+001	5.58000E-003	0.00000E+000	1.80683E+001
Pavers	1.50000E-002	1.65990E-001	1.34620E-001	2.20000E-004	8.11000E-003	7.46000E-003	0.00000E+000	1.97441E+001	1.97441E+001	6.15000E-003	0.00000E+000	1.98977E+001
Paving Equipment	1.09400E-002	1.22290E-001	1.16660E-001	1.90000E-004	5.99000E-003	5.51000E-003	0.00000E+000	1.71097E+001	1.71097E+001	5.33000E-003	0.00000E+000	1.72429E+001
Rollers	1.18600E-002	1.14700E-001	8.90300E-002	1.20000E-004	7.89000E-003	7.26000E-003	0.00000E+000	1.10129E+001	1.10129E+001	3.43000E-003	0.00000E+000	1.10987E+001
Rubber Tired Dozers	7.98800E-002	8.60360E-001	2.99790E-001	5.80000E-004	4.18200E-002	3.84800E-002	0.00000E+000	5.34530E+001	5.34530E+001	1.66400E-002	0.00000E+000	5.38690E+001
Scrapers	6.76700E-002	8.37300E-001	5.18420E-001	8.90000E-004	3.30000E-002	3.03600E-002	0.00000E+000	8.16132E+001	8.16132E+001	2.54100E-002	0.00000E+000	8.22484E+001
Tractors/Loaders/Backhoes	2.15570E-001	2.14540E+000	2.01322E+000	2.70000E-003	1.47560E-001	1.35760E-001	0.00000E+000	2.43967E+002	2.43967E+002	7.66700E-002	0.00000E+000	2.45884E+002

Welders	1.17320E-001	4.74670E-001	5.27030E-001	7.40000E-004	3.02100E-002	3.02100E-002	0.00000E+000	5.43017E+001	5.43017E+001	9.58000E-003	0.00000E+000	5.45412E+001
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Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	6.87000E-003	4.61300E-002	4.26500E-002	7.00000E-005	3.46000E-003	3.46000E-003	0.00000E+000	5.87249E+000	5.87249E+000	5.60000E-004	0.00000E+000	5.88644E+000
Bore/Drill Rigs	8.38200E-002	1.13186E+000	6.02920E-001	2.72000E-003	3.20900E-002	2.95200E-002	0.00000E+000	2.45494E+002	2.45494E+002	7.72600E-002	0.00000E+000	2.47426E+002
Cranes	1.33630E-001	1.59450E+000	6.00700E-001	1.46000E-003	6.81300E-002	6.26800E-002	0.00000E+000	1.31513E+002	1.31513E+002	4.13900E-002	0.00000E+000	1.32547E+002
Excavators	1.70600E-002	1.82660E-001	1.93260E-001	3.00000E-004	8.86000E-003	8.15000E-003	0.00000E+000	2.78102E+001	2.78102E+001	8.66000E-003	0.00000E+000	2.80266E+001
Forklifts	1.44240E-001	1.28264E+000	1.03909E+000	1.32000E-003	1.00490E-001	9.24500E-002	0.00000E+000	1.19442E+002	1.19442E+002	3.75900E-002	0.00000E+000	1.20382E+002
Generator Sets	1.34870E-001	1.12547E+000	1.07677E+000	1.90000E-003	6.90600E-002	6.90600E-002	0.00000E+000	1.63062E+002	1.63062E+002	1.08700E-002	0.00000E+000	1.63334E+002
Graders	1.53300E-002	2.10260E-001	5.64800E-002	2.00000E-004	6.84000E-003	6.29000E-003	0.00000E+000	1.79288E+001	1.79288E+001	5.58000E-003	0.00000E+000	1.80683E+001
Pavers	1.50000E-002	1.65990E-001	1.34620E-001	2.20000E-004	8.11000E-003	7.46000E-003	0.00000E+000	1.97441E+001	1.97441E+001	6.15000E-003	0.00000E+000	1.98977E+001
Paving Equipment	1.09400E-002	1.22290E-001	1.16660E-001	1.90000E-004	5.99000E-003	5.51000E-003	0.00000E+000	1.71097E+001	1.71097E+001	5.33000E-003	0.00000E+000	1.72429E+001
Rollers	1.18600E-002	1.14700E-001	8.90300E-002	1.20000E-004	7.89000E-003	7.26000E-003	0.00000E+000	1.10129E+001	1.10129E+001	3.43000E-003	0.00000E+000	1.10986E+001
Rubber Tired Dozers	7.98800E-002	8.60360E-001	2.99790E-001	5.80000E-004	4.18200E-002	3.84800E-002	0.00000E+000	5.34530E+001	5.34530E+001	1.66400E-002	0.00000E+000	5.38690E+001
Scrapers	6.76700E-002	8.37300E-001	5.18420E-001	8.90000E-004	3.30000E-002	3.03600E-002	0.00000E+000	8.16131E+001	8.16131E+001	2.54100E-002	0.00000E+000	8.22483E+001
Tractors/Loaders/Bac khoes	2.15570E-001	2.14540E+000	2.01322E+000	2.70000E-003	1.47560E-001	1.35760E-001	0.00000E+000	2.43967E+002	2.43967E+002	7.66700E-002	0.00000E+000	2.45883E+002
Welders	1.17320E-001	4.74670E-001	5.27030E-001	7.40000E-004	3.02100E-002	3.02100E-002	0.00000E+000	5.43016E+001	5.43016E+001	9.58000E-003	0.00000E+000	5.45411E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Bore/Drill Rigs	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22202E-006	1.22202E-006	0.00000E+000	0.00000E+000	1.21248E-006
Cranes	0.00000E+000	6.27152E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21661E-006	1.21661E-006	0.00000E+000	0.00000E+000	1.20711E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07874E-006	1.07874E-006	0.00000E+000	0.00000E+000	1.07041E-006

Forklifts	0.00000E+000	0.00000E+000	9.62371E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17212E-006	1.17212E-006	0.00000E+000	0.00000E+000	1.16297E-006
Generator Sets	0.00000E+000	0.00000E+000	9.28695E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16520E-006	1.16520E-006	0.00000E+000	0.00000E+000	1.22448E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.67329E-006	1.67329E-006	0.00000E+000	0.00000E+000	1.10691E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.01296E-006	1.01296E-006	0.00000E+000	0.00000E+000	1.50771E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16893E-006	1.16893E-006	0.00000E+000	0.00000E+000	1.15990E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.08023E-007	9.08023E-007	0.00000E+000	0.00000E+000	1.80202E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30956E-006	1.30956E-006	0.00000E+000	0.00000E+000	1.11381E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22529E-006	1.22529E-006	0.00000E+000	0.00000E+000	1.09425E-006
Tractors/Loaders/Bac khoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18869E-006	1.18869E-006	0.00000E+000	0.00000E+000	1.17942E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10494E-006	1.10494E-006	0.00000E+000	0.00000E+000	1.28343E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input		
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00	
Yes	Clean Paved Road	% PM Reduction	9.00			

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00

Operation - Existing - San Diego County, Annual

Operation - Existing
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	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 - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - See assumptions file for details.

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	649,479.60	0.00
tblLandUse	BuildingSpaceSquareFeet	3,911,252.40	0.00
tblLandUse	BuildingSpaceSquareFeet	54,885.60	54,744.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	16,230,020.40	0.00
tblLandUse	LandUseSquareFeet	649,479.60	0.00
tblLandUse	LandUseSquareFeet	3,911,252.40	0.00
tblLandUse	LandUseSquareFeet	54,885.60	54,744.00
tblLandUse	LandUseSquareFeet	16,230,020.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2017
tblVehicleTrips	ST_TR	22.75	20.26
tblVehicleTrips	SU_TR	16.74	20.26
tblVehicleTrips	WD_TR	1.89	16.71
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	7,017,895.00
tblWater	OutdoorWaterUseRate	443,934,036.07	4,380,900.00
tblWater	SepticTankPercent	10.33	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	0.0779	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	15.7439	15.7439	6.3000e-004	1.3000e-004	15.7988
Mobile	2.5651	10.1849	28.1346	0.0707	5.3165	0.0947	5.4111	1.4244	0.0894	1.5138	0.0000	6,489.5837	6,489.5837	0.4179	0.0000	6,500.0315
Waste						0.0000	0.0000		0.0000	0.0000	6.5038	0.0000	6.5038	0.3844	0.0000	16.1130
Water						0.0000	0.0000		0.0000	0.0000	2.4829	45.7702	48.2531	0.0104	5.7800e-003	50.2355
Total	2.6430	10.1849	28.1391	0.0707	5.3165	0.0947	5.4111	1.4244	0.0894	1.5138	8.9868	6,551.1063	6,560.0931	0.8133	5.9100e-003	6,582.1879

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0779	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	15.7439	15.7439	6.3000e-004	1.3000e-004	15.7988

Mobile	2.5651	10.1849	28.1346	0.0707	5.3165	0.0947	5.4111	1.4244	0.0894	1.5138	0.0000	6,489.5837	6,489.5837	0.4179	0.0000	6,500.0315
Waste						0.0000	0.0000		0.0000	0.0000	6.5038	0.0000	6.5038	0.3844	0.0000	16.1130
Water						0.0000	0.0000		0.0000	0.0000	2.4829	45.7702	48.2531	0.0104	5.7800e-003	50.2355
Total	2.6430	10.1849	28.1391	0.0707	5.3165	0.0947	5.4111	1.4244	0.0894	1.5138	8.9868	6,551.1063	6,560.0931	0.8133	5.9100e-003	6,582.1879

	ROG	NOx	CO	SO2	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

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	2.5651	10.1849	28.1346	0.0707	5.3165	0.0947	5.4111	1.4244	0.0894	1.5138	0.0000	6,489.5837	6,489.5837	0.4179	0.0000	6,500.0315
Unmitigated	2.5651	10.1849	28.1346	0.0707	5.3165	0.0947	5.4111	1.4244	0.0894	1.5138	0.0000	6,489.5837	6,489.5837	0.4179	0.0000	6,500.0315

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336

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	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Other Asphalt Surfaces	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Other Non-Asphalt Surfaces	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Parking Lot	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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
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	0.0000	0.0000
Other Non-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	0.0000	0.0000
Parking Lot	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48174.7	15.7439	6.3000e-004	1.3000e-004	15.7988

Total		15.7439	6.3000e-004	1.3000e-004	15.7988
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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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48174.7	15.7439	6.3000e-004	1.3000e-004	15.7988
Total		15.7439	6.3000e-004	1.3000e-004	15.7988

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					

Consumer Products	0.0591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1500e-003
Total	0.0779	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	48.2531	0.0104	5.7800e-003	50.2355
Unmitigated	48.2531	0.0104	5.7800e-003	50.2355

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

City Park	7.0179 / 4.3809	48.2531	0.0104	5.7800e- 003	50.2355
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.2531	0.0104	5.7800e- 003	50.2355

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	7.0179 / 4.3809	48.2531	0.0104	5.7800e- 003	50.2355
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.2531	0.0104	5.7800e- 003	50.2355

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.5038	0.3844	0.0000	16.1130
Unmitigated	6.5038	0.3844	0.0000	16.1130

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	32.04	6.5038	0.3844	0.0000	16.1130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.5038	0.3844	0.0000	16.1130

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	32.04	6.5038	0.3844	0.0000	16.1130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.5038	0.3844	0.0000	16.1130

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Existing - San Diego County, Summer

Operation - Existing
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - See assumptions file for details.

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	649,479.60	0.00
tblLandUse	BuildingSpaceSquareFeet	3,911,252.40	0.00
tblLandUse	BuildingSpaceSquareFeet	54,885.60	54,744.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	16,230,020.40	0.00
tblLandUse	LandUseSquareFeet	649,479.60	0.00
tblLandUse	LandUseSquareFeet	3,911,252.40	0.00
tblLandUse	LandUseSquareFeet	54,885.60	54,744.00
tblLandUse	LandUseSquareFeet	16,230,020.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2017
tblVehicleTrips	ST_TR	22.75	20.26
tblVehicleTrips	SU_TR	16.74	20.26
tblVehicleTrips	WD_TR	1.89	16.71
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	7,017,895.00
tblWater	OutdoorWaterUseRate	443,934,036.07	4,380,900.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
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
Mobile	16.9426	61.8336	178.5179	0.4645	34.1922	0.5925	34.7847	9.1428	0.5594	9.7023		46,961.5423	46,961.5423	2.9003		47,034.0495
Total	17.3720	61.8341	178.5677	0.4645	34.1922	0.5926	34.7849	9.1428	0.5596	9.7024		46,961.6470	46,961.6470	2.9006	0.0000	47,034.1615

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
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
Mobile	16.9426	61.8336	178.5179	0.4645	34.1922	0.5925	34.7847	9.1428	0.5594	9.7023		46,961.5423	46,961.5423	2.9003		47,034.0495
Total	17.3720	61.8341	178.5677	0.4645	34.1922	0.5926	34.7849	9.1428	0.5596	9.7024		46,961.6470	46,961.6470	2.9006	0.0000	47,034.1615

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.9426	61.8336	178.5179	0.4645	34.1922	0.5925	34.7847	9.1428	0.5594	9.7023		46,961.5423	46,961.5423	2.9003		47,034.0495
Unmitigated	16.9426	61.8336	178.5179	0.4645	34.1922	0.5925	34.7847	9.1428	0.5594	9.7023		46,961.5423	46,961.5423	2.9003		47,034.0495

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Other Asphalt Surfaces	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Other Non-Asphalt Surfaces	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Parking Lot	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
Unmitigated	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
Total	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
Total	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Existing - San Diego County, Winter

Operation - Existing
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - See assumptions file for details.

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	649,479.60	0.00
tblLandUse	BuildingSpaceSquareFeet	3,911,252.40	0.00
tblLandUse	BuildingSpaceSquareFeet	54,885.60	54,744.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	16,230,020.40	0.00
tblLandUse	LandUseSquareFeet	649,479.60	0.00
tblLandUse	LandUseSquareFeet	3,911,252.40	0.00
tblLandUse	LandUseSquareFeet	54,885.60	54,744.00
tblLandUse	LandUseSquareFeet	16,230,020.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2017
tblVehicleTrips	ST_TR	22.75	20.26
tblVehicleTrips	SU_TR	16.74	20.26
tblVehicleTrips	WD_TR	1.89	16.71
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	7,017,895.00
tblWater	OutdoorWaterUseRate	443,934,036.07	4,380,900.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
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
Mobile	16.6492	63.8195	179.8234	0.4402	34.1922	0.5991	34.7913	9.1428	0.5658	9.7086		44,503.8199	44,503.8199	2.9304		44,577.0806
Total	17.0786	63.8199	179.8732	0.4402	34.1922	0.5993	34.7915	9.1428	0.5659	9.7088		44,503.9246	44,503.9246	2.9307	0.0000	44,577.1926

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
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
Mobile	16.6492	63.8195	179.8234	0.4402	34.1922	0.5991	34.7913	9.1428	0.5658	9.7086		44,503.8199	44,503.8199	2.9304		44,577.0806
Total	17.0786	63.8199	179.8732	0.4402	34.1922	0.5993	34.7915	9.1428	0.5659	9.7088		44,503.9246	44,503.9246	2.9307	0.0000	44,577.1926

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	16.6492	63.8195	179.8234	0.4402	34.1922	0.5991	34.7913	9.1428	0.5658	9.7086		44,503.8199	44,503.8199	2.9304		44,577.0806
Unmitigated	16.6492	63.8195	179.8234	0.4402	34.1922	0.5991	34.7913	9.1428	0.5658	9.7086		44,503.8199	44,503.8199	2.9304		44,577.0806

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,225.98	7,548.67	7548.67	14,098,336	14,098,336
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Other Asphalt Surfaces	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Other Non-Asphalt Surfaces	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558
Parking Lot	0.565638	0.047157	0.192136	0.119786	0.020441	0.005692	0.014544	0.021692	0.001860	0.002252	0.006508	0.000737	0.001558

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
Unmitigated	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
Total	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.8000e-003	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120
Total	0.4294	4.7000e-004	0.0498	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004		0.1047	0.1047	2.9000e-004		0.1120

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Existing - San Diego County, Summary Report

Operation - Existing

San Diego, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2017
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - See assumptions file for details.

2.0 Peak Daily Emissions

Peak Daily Operational Emissions

Peak Daily Operational Emissions

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
	Operational Activity	lb/day											
On-Site	Area	0.4294 S	4.7000e-004 S	0.0498 S	0.0000 S	1.8000e-004 S	1.8000e-004 S	0.4294 S	4.7000e-004 S	0.0498 S	0.0000 S	1.8000e-004 S	1.8000e-004 S
On-Site	Energy	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S
Off-Site	Mobile	16.9426 S	63.8195 W	179.8234 W	0.4645 S	34.7913 W	9.7086 W	16.9426 S	63.8195 W	179.8234 W	0.4645 S	34.7913 W	9.7086 W
	Peak Daily Total	17.3720 S	63.8199 W	179.8732 W	0.4645 S	34.7915 W	9.7088 W	17.3720 S	63.8199 W	179.8732 W	0.4645 S	34.7915 W	9.7088 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Operational	2017	6,560.0931	0.8133	5.9058e-003	6,582.1862	6,560.0931	0.8133	5.9058e-003	6,582.1862
	Total								
	Significance Threshold								

	Exceed Significance?								
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Operation - Existing
San Diego County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.31		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Operation - Existing 2035 - San Diego County, Annual

Operation - Existing 2035 San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Water And Wastewater - See assumptions file for details.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	BuildingSpaceSquareFeet	649,479.60	0.00
tblLandUse	BuildingSpaceSquareFeet	3,911,252.40	0.00
tblLandUse	BuildingSpaceSquareFeet	54,885.60	54,744.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	16,230,020.40	0.00
tblLandUse	LandUseSquareFeet	649,479.60	0.00
tblLandUse	LandUseSquareFeet	3,911,252.40	0.00
tblLandUse	LandUseSquareFeet	54,885.60	54,744.00
tblLandUse	LandUseSquareFeet	16,230,020.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	20.26
tblVehicleTrips	SU_TR	16.74	20.26
tblVehicleTrips	WD_TR	1.89	16.71
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	7,017,895.00
tblWater	OutdoorWaterUseRate	443,934,036.07	4,380,900.00
tblWater	SepticTankPercent	10.33	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	0.0779	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	15.7439	15.7439	6.3000e-004	1.3000e-004	15.7988
Mobile	0.9646	4.6670	10.8906	0.0457	5.3110	0.0238	5.3348	1.4217	0.0221	1.4438	0.0000	4,266.6248	4,266.6248	0.2117	0.0000	4,271.9177
Waste						0.0000	0.0000		0.0000	0.0000	6.5038	0.0000	6.5038	0.3844	0.0000	16.1130
Water						0.0000	0.0000		0.0000	0.0000	2.4829	45.7702	48.2531	0.0104	5.7800e-003	50.2355
Total	1.0425	4.6671	10.8950	0.0457	5.3110	0.0238	5.3348	1.4217	0.0221	1.4438	8.9868	4,328.1475	4,337.1342	0.6071	5.9100e-003	4,354.0740

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0779	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	15.7439	15.7439	6.3000e-004	1.3000e-004	15.7988

Mobile	0.9646	4.6670	10.8906	0.0457	5.3110	0.0238	5.3348	1.4217	0.0221	1.4438	0.0000	4,266.6248	4,266.6248	0.2117	0.0000	4,271.9177
Waste						0.0000	0.0000		0.0000	0.0000	6.5038	0.0000	6.5038	0.3844	0.0000	16.1130
Water						0.0000	0.0000		0.0000	0.0000	2.4829	45.7702	48.2531	0.0104	5.7800e-003	50.2355
Total	1.0425	4.6671	10.8950	0.0457	5.3110	0.0238	5.3348	1.4217	0.0221	1.4438	8.9868	4,328.1475	4,337.1342	0.6071	5.9100e-003	4,354.0740

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9646	4.6670	10.8906	0.0457	5.3110	0.0238	5.3348	1.4217	0.0221	1.4438	0.0000	4,266.6248	4,266.6248	0.2117	0.0000	4,271.9177
Unmitigated	0.9646	4.6670	10.8906	0.0457	5.3110	0.0238	5.3348	1.4217	0.0221	1.4438	0.0000	4,266.6248	4,266.6248	0.2117	0.0000	4,271.9177

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336

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	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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
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	0.0000	0.0000
Other Non-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	0.0000	0.0000
Parking Lot	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48174.7	15.7439	6.3000e-004	1.3000e-004	15.7988

Total		15.7439	6.3000e-004	1.3000e-004	15.7988
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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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48174.7	15.7439	6.3000e-004	1.3000e-004	15.7988
Total		15.7439	6.3000e-004	1.3000e-004	15.7988

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					

Consumer Products	0.0591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Total	0.0779	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	48.2531	0.0104	5.7800e-003	50.2355
Unmitigated	48.2531	0.0104	5.7800e-003	50.2355

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

City Park	7.0179 / 4.3809	48.2531	0.0104	5.7800e- 003	50.2355
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.2531	0.0104	5.7800e- 003	50.2355

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	7.0179 / 4.3809	48.2531	0.0104	5.7800e- 003	50.2355
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.2531	0.0104	5.7800e- 003	50.2355

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.5038	0.3844	0.0000	16.1130
Unmitigated	6.5038	0.3844	0.0000	16.1130

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	32.04	6.5038	0.3844	0.0000	16.1130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.5038	0.3844	0.0000	16.1130

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	32.04	6.5038	0.3844	0.0000	16.1130
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.5038	0.3844	0.0000	16.1130

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Existing 2035 - San Diego County, Summer

Operation - Existing 2035
San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Water And Wastewater - See assumptions file for details.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	BuildingSpaceSquareFeet	649,479.60	0.00
tblLandUse	BuildingSpaceSquareFeet	3,911,252.40	0.00
tblLandUse	BuildingSpaceSquareFeet	54,885.60	54,744.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	16,230,020.40	0.00
tblLandUse	LandUseSquareFeet	649,479.60	0.00
tblLandUse	LandUseSquareFeet	3,911,252.40	0.00
tblLandUse	LandUseSquareFeet	54,885.60	54,744.00
tblLandUse	LandUseSquareFeet	16,230,020.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	20.26
tblVehicleTrips	SU_TR	16.74	20.26
tblVehicleTrips	WD_TR	1.89	16.71
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	7,017,895.00
tblWater	OutdoorWaterUseRate	443,934,036.07	4,380,900.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.4141	28.8188	69.8814	0.2992	34.1582	0.1492	34.3074	9.1259	0.1386	9.2645		30,759.0943	30,759.0943	1.4667		30,795.7616
Total	6.8431	28.8192	69.9300	0.2992	34.1582	0.1494	34.3075	9.1259	0.1388	9.2647		30,759.1990	30,759.1990	1.4670	0.0000	30,795.8730

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.4141	28.8188	69.8814	0.2992	34.1582	0.1492	34.3074	9.1259	0.1386	9.2645		30,759.0943	30,759.0943	1.4667		30,795.7616
Total	6.8431	28.8192	69.9300	0.2992	34.1582	0.1494	34.3075	9.1259	0.1388	9.2647		30,759.1990	30,759.1990	1.4670	0.0000	30,795.8730

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.4141	28.8188	69.8814	0.2992	34.1582	0.1492	34.3074	9.1259	0.1386	9.2645		30,759.0943	30,759.0943	1.4667		30,795.7616
Unmitigated	6.4141	28.8188	69.8814	0.2992	34.1582	0.1492	34.3074	9.1259	0.1386	9.2645		30,759.0943	30,759.0943	1.4667		30,795.7616

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Unmitigated	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Existing 2035 - San Diego County, Winter

Operation - Existing 2035 San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Water And Wastewater - See assumptions file for details.

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblLandUse	BuildingSpaceSquareFeet	649,479.60	0.00
tblLandUse	BuildingSpaceSquareFeet	3,911,252.40	0.00
tblLandUse	BuildingSpaceSquareFeet	54,885.60	54,744.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	16,230,020.40	0.00
tblLandUse	LandUseSquareFeet	649,479.60	0.00
tblLandUse	LandUseSquareFeet	3,911,252.40	0.00
tblLandUse	LandUseSquareFeet	54,885.60	54,744.00
tblLandUse	LandUseSquareFeet	16,230,020.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	20.26
tblVehicleTrips	SU_TR	16.74	20.26
tblVehicleTrips	WD_TR	1.89	16.71
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	7,017,895.00
tblWater	OutdoorWaterUseRate	443,934,036.07	4,380,900.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.2043	29.1637	69.3268	0.2841	34.1582	0.1497	34.3078	9.1259	0.1391	9.2650		29,225.5838	29,225.5838	1.4842		29,262.6891
Total	6.6334	29.1641	69.3754	0.2841	34.1582	0.1498	34.3080	9.1259	0.1393	9.2652		29,225.6885	29,225.6885	1.4845	0.0000	29,262.8006

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.2043	29.1637	69.3268	0.2841	34.1582	0.1497	34.3078	9.1259	0.1391	9.2650		29,225.5838	29,225.5838	1.4842		29,262.6891
Total	6.6334	29.1641	69.3754	0.2841	34.1582	0.1498	34.3080	9.1259	0.1393	9.2652		29,225.6885	29,225.6885	1.4845	0.0000	29,262.8006

	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.2043	29.1637	69.3268	0.2841	34.1582	0.1497	34.3078	9.1259	0.1391	9.2650		29,225.5838	29,225.5838	1.4842		29,262.6891
Unmitigated	6.2043	29.1637	69.3268	0.2841	34.1582	0.1497	34.3078	9.1259	0.1391	9.2650		29,225.5838	29,225.5838	1.4842		29,262.6891

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,225.98	7,548.67	7,548.67	14,098,336	14,098,336

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000

Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Unmitigated	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1008					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.4290	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Existing 2035 - San Diego County, Summary Report

Operation - Existing 2035**San Diego, Summary Report****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	14.91	Acre	14.91	0.00	0
Other Non-Asphalt Surfaces	89.79	Acre	89.79	0.00	0
Parking Lot	1.26	Acre	1.26	54,744.00	0
City Park	372.59	Acre	372.59	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - See assumptions for details.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Energy Use -

Water And Wastewater - See assumptions file for details.

Fleet Mix -

2.0 Peak Daily Emissions

Peak Daily Operational Emissions

Peak Daily Operational Emissions

[illegible]

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Operational	2035	4,337.1342	0.6071	5.9058e-003	4,354.0720	4,337.1342	0.6071	5.9058e-003	4,354.0720
	Total								
	Significance Threshold								
	Exceed Significance?								

Operation - Existing 2035
San Diego County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.10	0.31		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Operation - Option A - San Diego County, Annual

Operation - Option A
San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.37	Acre	21.37	0.00	0
Other Non-Asphalt Surfaces	141.58	Acre	141.58	0.00	0
Parking Lot	10.87	Acre	10.87	473,581.00	0
City Park	304.73	Acre	304.73	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	930,877.20	0.00
tblLandUse	BuildingSpaceSquareFeet	6,167,224.80	0.00
tblLandUse	BuildingSpaceSquareFeet	473,497.20	473,581.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	13,274,038.80	0.00
tblLandUse	LandUseSquareFeet	930,877.20	0.00
tblLandUse	LandUseSquareFeet	6,167,224.80	0.00
tblLandUse	LandUseSquareFeet	473,497.20	473,581.00
tblLandUse	LandUseSquareFeet	13,274,038.80	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	28.10
tblVehicleTrips	SU_TR	16.74	28.10
tblVehicleTrips	WD_TR	1.89	22.51
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,348,383.00
tblWater	OutdoorWaterUseRate	363,080,111.68	5,604,975.00
tblWater	SepticTankPercent	10.33	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	0.1195	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	136.1980	136.1980	5.4800e-003	1.1300e-003	136.6730
Mobile	1.0730	5.1916	12.1147	0.0509	5.9080	0.0264	5.9344	1.5815	0.0246	1.6061	0.0000	4,746.1939	4,746.1939	0.2355	0.0000	4,752.0816
Waste						0.0000	0.0000		0.0000	0.0000	5.3204	0.0000	5.3204	0.3144	0.0000	13.1811
Water						0.0000	0.0000		0.0000	0.0000	2.9537	55.8763	58.8300	0.0124	6.8900e-003	61.1932
Total	1.1925	5.1916	12.1191	0.0509	5.9080	0.0265	5.9344	1.5815	0.0246	1.6061	8.2741	4,938.2767	4,946.5508	0.5679	8.0200e-003	4,963.1379

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1195	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	136.1980	136.1980	5.4800e-003	1.1300e-003	136.6730
Mobile	1.0730	5.1916	12.1147	0.0509	5.9080	0.0264	5.9344	1.5815	0.0246	1.6061	0.0000	4,746.1939	4,746.1939	0.2355	0.0000	4,752.0816
Waste						0.0000	0.0000		0.0000	0.0000	5.3204	0.0000	5.3204	0.3144	0.0000	13.1811
Water						0.0000	0.0000		0.0000	0.0000	2.3629	47.5298	49.8928	0.0101	5.5300e-003	51.7932
Total	1.1925	5.1916	12.1191	0.0509	5.9080	0.0265	5.9344	1.5815	0.0246	1.6061	7.6833	4,929.9302	4,937.6135	0.5655	6.6600e-003	4,953.7379

	ROG	NOx	CO	SO2	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	7.14	0.17	0.18	0.42	16.96	0.19

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	1.0730	5.1916	12.1147	0.0509	5.9080	0.0264	5.9344	1.5815	0.0246	1.6061	0.0000	4,746.1939	4,746.1939	0.2355	0.0000	4,752.0816
Unmitigated	1.0730	5.1916	12.1147	0.0509	5.9080	0.0264	5.9344	1.5815	0.0246	1.6061	0.0000	4,746.1939	4,746.1939	0.2355	0.0000	4,752.0816

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,859.47	8,562.91	8562.91	15,682,990	15,682,990
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,859.47	8,562.91	8,562.91	15,682,990	15,682,990

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

[illegible]

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
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	0.0000	0.0000
Other Non-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	0.0000	0.0000
Parking Lot	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	416751	136.1980	5.4800e-003	1.1300e-003	136.6730

Total		136.1980	5.4800e-003	1.1300e-003	136.6730
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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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	416751	136.1980	5.4800e-003	1.1300e-003	136.6730
Total		136.1980	5.4800e-003	1.1300e-003	136.6730

6.0 Area Detail

6.1 Mitigation Measures Area

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

Mitigated	0.1195	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Unmitigated	0.1195	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-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	0.0330					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Total	0.1195	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

Mitigated

[illegible]

Consumer Products	0.0862					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Total	0.1195	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.8928	0.0101	5.5300e-003	51.7932
Unmitigated	58.8300	0.0124	6.8900e-003	61.1932

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	8.34838 / 5.60497	58.8300	0.0124	6.8900e-003	61.1932
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		58.8300	0.0124	6.8900e-003	61.1932

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	6.67871 / 5.26307	49.8928	0.0101	5.5300e-003	51.7932
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		49.8928	0.0101	5.5300e-003	51.7932

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.3204	0.3144	0.0000	13.1811
Unmitigated	5.3204	0.3144	0.0000	13.1811

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	26.21	5.3204	0.3144	0.0000	13.1811
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Total		5.3204	0.3144	0.0000	13.1811
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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	26.21	5.3204	0.3144	0.0000	13.1811
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.3204	0.3144	0.0000	13.1811

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Option A - San Diego County, Summer

Operation - Option A San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.37	Acre	21.37	0.00	0
Other Non-Asphalt Surfaces	141.58	Acre	141.58	0.00	0
Parking Lot	10.87	Acre	10.87	473,581.00	0
City Park	304.73	Acre	304.73	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	930,877.20	0.00
tblLandUse	BuildingSpaceSquareFeet	6,167,224.80	0.00
tblLandUse	BuildingSpaceSquareFeet	473,497.20	473,581.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	13,274,038.80	0.00
tblLandUse	LandUseSquareFeet	930,877.20	0.00
tblLandUse	LandUseSquareFeet	6,167,224.80	0.00
tblLandUse	LandUseSquareFeet	473,497.20	473,581.00
tblLandUse	LandUseSquareFeet	13,274,038.80	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	28.10
tblVehicleTrips	SU_TR	16.74	28.10
tblVehicleTrips	WD_TR	1.89	22.51
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,348,383.00
tblWater	OutdoorWaterUseRate	363,080,111.68	5,604,975.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	7.2759	32.6909	79.2707	0.3394	38.7477	0.1692	38.9169	10.3521	0.1573	10.5093		34,891.8856	34,891.8856	1.6638		34,933.4794
Total	7.9331	32.6913	79.3193	0.3394	38.7477	0.1694	38.9171	10.3521	0.1574	10.5095		34,891.9903	34,891.9903	1.6640	0.0000	34,933.5909

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	7.2759	32.6909	79.2707	0.3394	38.7477	0.1692	38.9169	10.3521	0.1573	10.5093		34,891.8856	34,891.8856	1.6638		34,933.4794

Total	7.9331	32.6913	79.3193	0.3394	38.7477	0.1694	38.9171	10.3521	0.1574	10.5095		34,891.9903	34,891.9903	1.6640	0.0000	34,933.5909
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	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.2759	32.6909	79.2707	0.3394	38.7477	0.1692	38.9169	10.3521	0.1573	10.5093		34,891.8856	34,891.8856	1.6638		34,933.4794
Unmitigated	7.2759	32.6909	79.2707	0.3394	38.7477	0.1692	38.9169	10.3521	0.1573	10.5093		34,891.8856	34,891.8856	1.6638		34,933.4794

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,859.47	8,562.91	8562.91	15,682,990	15,682,990
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,859.47	8,562.91	8,562.91	15,682,990	15,682,990

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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

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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Unmitigated	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

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
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SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower
Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Option A - San Diego County, Winter

Operation - Option A
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.37	Acre	21.37	0.00	0
Other Non-Asphalt Surfaces	141.58	Acre	141.58	0.00	0
Parking Lot	10.87	Acre	10.87	473,581.00	0
City Park	304.73	Acre	304.73	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	930,877.20	0.00
tblLandUse	BuildingSpaceSquareFeet	6,167,224.80	0.00
tblLandUse	BuildingSpaceSquareFeet	473,497.20	473,581.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	13,274,038.80	0.00
tblLandUse	LandUseSquareFeet	930,877.20	0.00
tblLandUse	LandUseSquareFeet	6,167,224.80	0.00
tblLandUse	LandUseSquareFeet	473,497.20	473,581.00
tblLandUse	LandUseSquareFeet	13,274,038.80	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	28.10
tblVehicleTrips	SU_TR	16.74	28.10
tblVehicleTrips	WD_TR	1.89	22.51
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,348,383.00
tblWater	OutdoorWaterUseRate	363,080,111.68	5,604,975.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	7.0380	33.0821	78.6416	0.3223	38.7477	0.1698	38.9174	10.3521	0.1578	10.5098		33,152.3326	33,152.3326	1.6836		33,194.4234
Total	7.6951	33.0825	78.6902	0.3223	38.7477	0.1700	38.9176	10.3521	0.1579	10.5100		33,152.4373	33,152.4373	1.6839	0.0000	33,194.5349

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	7.0380	33.0821	78.6416	0.3223	38.7477	0.1698	38.9174	10.3521	0.1578	10.5098		33,152.3326	33,152.3326	1.6836		33,194.4234

Total	7.6951	33.0825	78.6902	0.3223	38.7477	0.1700	38.9176	10.3521	0.1579	10.5100		33,152.4373	33,152.4373	1.6839	0.0000	33,194.5349
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	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.0380	33.0821	78.6416	0.3223	38.7477	0.1698	38.9174	10.3521	0.1578	10.5098		33,152.3326	33,152.3326	1.6836		33,194.4234
Unmitigated	7.0380	33.0821	78.6416	0.3223	38.7477	0.1698	38.9174	10.3521	0.1578	10.5098		33,152.3326	33,152.3326	1.6836		33,194.4234

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,859.47	8,562.91	8,562.91	15,682,990	15,682,990
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,859.47	8,562.91	8,562.91	15,682,990	15,682,990

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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

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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Unmitigated	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

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
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SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1805					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4722					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6572	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower
Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Option A - San Diego County, Summary Report

Operation - Option A San Diego, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	21.37	Acre	21.37	0.00	0
Other Non-Asphalt Surfaces	141.58	Acre	141.58	0.00	0
Parking Lot	10.87	Acre	10.87	473,581.00	0
City Park	304.73	Acre	304.73	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - See assumptions file.

Construction Phase -

Vehicle Trips - Based on information provided by STC.

Energy Use -

Water And Wastewater - Assumes 100% aerobic.

Water Mitigation -

2.0 Peak Daily Emissions

Peak Daily Operational Emissions

Peak Daily Operational Emissions

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
	Operational Activity	lb/day											
On-Site	Area	0.6572 S	4.4000e-004 S	0.0486 S	0.0000 S	1.7000e-004 S	1.7000e-004 S	0.6572 S	4.4000e-004 S	0.0486 S	0.0000 S	1.7000e-004 S	1.7000e-004 S
On-Site	Energy	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S
Off-Site	Mobile	7.2759 S	33.0821 W	79.2707 S	0.3394 S	38.9174 W	10.5098 W	7.2759 S	33.0821 W	79.2707 S	0.3394 S	38.9174 W	10.5098 W
	Peak Daily Total	7.9331 S	33.0825 W	79.3193 S	0.3394 S	38.9176 W	10.5100 W	7.9331 S	33.0825 W	79.3193 S	0.3394 S	38.9176 W	10.5100 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Operational	2035	4,946.5507	0.5679	8.0195e-003	4,963.1369	4,937.6135	0.5655	6.6678e-003	4,953.7374
	Total								

	Significance Threshold								
	Exceed Significance?								

Operation - Option A
San Diego County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.94	15.19	19.08	19.74	15.36
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.02	0.19		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Operation - Option B - San Diego County, Annual

Operation - Option B

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.12	Acre	20.12	0.00	0
Other Non-Asphalt Surfaces	141.63	Acre	141.63	0.00	0
Parking Lot	10.01	Acre	10.01	435,909.00	0
City Park	306.79	Acre	306.79	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on assumed phasing. See assumptions for details.

Construction Phase -

Vehicle Trips - Based on trip generation data provided by STC Traffic, Inc.

Energy Use -

Water And Wastewater - Assumes 100% aerobic. See Assumptions for further details.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	876,427.20	0.00
tblLandUse	BuildingSpaceSquareFeet	6,169,402.80	0.00
tblLandUse	BuildingSpaceSquareFeet	436,035.60	435,909.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	13,363,772.40	0.00
tblLandUse	LandUseSquareFeet	876,427.20	0.00
tblLandUse	LandUseSquareFeet	6,169,402.80	0.00
tblLandUse	LandUseSquareFeet	436,035.60	435,909.00
tblLandUse	LandUseSquareFeet	13,363,772.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	26.57
tblVehicleTrips	SU_TR	16.74	26.57
tblVehicleTrips	WD_TR	1.89	21.52
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,348,383.00
tblWater	OutdoorWaterUseRate	365,534,563.26	5,604,975.00
tblWater	SepticTankPercent	10.33	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	0.1158	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	125.3638	125.3638	5.0500e-003	1.0400e-003	125.8011
Mobile	1.0290	4.9786	11.6177	0.0488	5.6656	0.0253	5.6910	1.5166	0.0236	1.5402	0.0000	4,551.4696	4,551.4696	0.2259	0.0000	4,557.1157
Waste						0.0000	0.0000		0.0000	0.0000	5.3549	0.0000	5.3549	0.3165	0.0000	13.2665
Water						0.0000	0.0000		0.0000	0.0000	2.9537	55.8763	58.8300	0.0124	6.8900e-003	61.1932
Total	1.1447	4.9786	11.6221	0.0488	5.6656	0.0254	5.6910	1.5166	0.0236	1.5402	8.3086	4,732.7183	4,741.0268	0.5598	7.9300e-003	4,757.3856

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1158	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	125.3638	125.3638	5.0500e-003	1.0400e-003	125.8011
Mobile	1.0290	4.9786	11.6177	0.0488	5.6656	0.0253	5.6910	1.5166	0.0236	1.5402	0.0000	4,551.4696	4,551.4696	0.2259	0.0000	4,557.1157
Waste						0.0000	0.0000		0.0000	0.0000	5.3549	0.0000	5.3549	0.3165	0.0000	13.2665
Water						0.0000	0.0000		0.0000	0.0000	2.3629	47.5298	49.8928	0.0101	5.5300e-003	51.7932
Total	1.1447	4.9786	11.6221	0.0488	5.6656	0.0254	5.6910	1.5166	0.0236	1.5402	7.7178	4,724.3718	4,732.0896	0.5574	6.5700e-003	4,747.9856

	ROG	NOx	CO	SO2	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	7.11	0.18	0.19	0.42	17.15	0.20

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	1.0290	4.9786	11.6177	0.0488	5.6656	0.0253	5.6910	1.5166	0.0236	1.5402	0.0000	4,551.4696	4,551.4696	0.2259	0.0000	4,557.1157
Unmitigated	1.0290	4.9786	11.6177	0.0488	5.6656	0.0253	5.6910	1.5166	0.0236	1.5402	0.0000	4,551.4696	4,551.4696	0.2259	0.0000	4,557.1157

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,602.12	8,151.41	8151.41	15,039,557	15,039,557
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,602.12	8,151.41	8,151.41	15,039,557	15,039,557

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

[illegible]

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
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	0.0000	0.0000
Other Non-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	0.0000	0.0000
Parking Lot	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	383600	125.3638	5.0500e-003	1.0400e-003	125.8011

Total		125.3638	5.0500e-003	1.0400e-003	125.8011
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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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	383600	125.3638	5.0500e-003	1.0400e-003	125.8011
Total		125.3638	5.0500e-003	1.0400e-003	125.8011

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					

Consumer Products	0.0837					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Total	0.1158	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.8928	0.0101	5.5300e-003	51.7932
Unmitigated	58.8300	0.0124	6.8900e-003	61.1932

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	8.34838 / 5.60497	58.8300	0.0124	6.8900e-003	61.1932
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		58.8300	0.0124	6.8900e-003	61.1932

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	6.67871 / 5.26307	49.8928	0.0101	5.5300e-003	51.7932
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		49.8928	0.0101	5.5300e-003	51.7932

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.3549	0.3165	0.0000	13.2665
Unmitigated	5.3549	0.3165	0.0000	13.2665

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	26.38	5.3549	0.3165	0.0000	13.2665
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

Total		5.3549	0.3165	0.0000	13.2665
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Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	26.38	5.3549	0.3165	0.0000	13.2665
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.3549	0.3165	0.0000	13.2665

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Option B - San Diego County, Summer

Operation - Option B San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.12	Acre	20.12	0.00	0
Other Non-Asphalt Surfaces	141.63	Acre	141.63	0.00	0
Parking Lot	10.01	Acre	10.01	435,909.00	0
City Park	306.79	Acre	306.79	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on assumed phasing. See assumptions for details.

Construction Phase -

Vehicle Trips - Based on trip generation data provided by STC Traffic, Inc.

Energy Use -

Water And Wastewater - Assumes 100% aerobic. See Assumptions for further details.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	876,427.20	0.00
tblLandUse	BuildingSpaceSquareFeet	6,169,402.80	0.00
tblLandUse	BuildingSpaceSquareFeet	436,035.60	435,909.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	13,363,772.40	0.00
tblLandUse	LandUseSquareFeet	876,427.20	0.00
tblLandUse	LandUseSquareFeet	6,169,402.80	0.00
tblLandUse	LandUseSquareFeet	436,035.60	435,909.00
tblLandUse	LandUseSquareFeet	13,363,772.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	26.57
tblVehicleTrips	SU_TR	16.74	26.57
tblVehicleTrips	WD_TR	1.89	21.52
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,348,383.00
tblWater	OutdoorWaterUseRate	365,534,563.26	5,604,975.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.9262	31.1199	75.4613	0.3231	36.8856	0.1611	37.0467	9.8546	0.1497	10.0043		33,215.1074	33,215.1074	1.5838		33,254.7025
Total	7.5629	31.1203	75.5098	0.3231	36.8856	0.1613	37.0469	9.8546	0.1499	10.0045		33,215.2122	33,215.2122	1.5841	0.0000	33,254.8139

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.9262	31.1199	75.4613	0.3231	36.8856	0.1611	37.0467	9.8546	0.1497	10.0043		33,215.1074	33,215.1074	1.5838		33,254.7025

Total	7.5629	31.1203	75.5098	0.3231	36.8856	0.1613	37.0469	9.8546	0.1499	10.0045		33,215.21 22	33,215.212 2	1.5841	0.0000	33,254.81 39
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	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.9262	31.1199	75.4613	0.3231	36.8856	0.1611	37.0467	9.8546	0.1497	10.0043		33,215.10 74	33,215.107 4	1.5838		33,254.70 25
Unmitigated	6.9262	31.1199	75.4613	0.3231	36.8856	0.1611	37.0467	9.8546	0.1497	10.0043		33,215.10 74	33,215.107 4	1.5838		33,254.70 25

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,602.12	8,151.41	8,151.41	15,039,557	15,039,557
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,602.12	8,151.41	8,151.41	15,039,557	15,039,557

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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

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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Unmitigated	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

6.2 Area by SubCategory

Unmitigated

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

SubCategory	lb/day										lb/day					
Architectural Coating	0.1734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower
Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Option B - San Diego County, Winter

Operation - Option B
San Diego County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.12	Acre	20.12	0.00	0
Other Non-Asphalt Surfaces	141.63	Acre	141.63	0.00	0
Parking Lot	10.01	Acre	10.01	435,909.00	0
City Park	306.79	Acre	306.79	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on assumed phasing. See assumptions for details.

Construction Phase -

Vehicle Trips - Based on trip generation data provided by STC Traffic, Inc.

Energy Use -

Water And Wastewater - Assumes 100% aerobic. See Assumptions for further details.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	FleetMixLandUseSubType	Other Asphalt Surfaces	City Park
tblFleetMix	FleetMixLandUseSubType	Other Non-Asphalt Surfaces	Other Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	Parking Lot	Other Non-Asphalt Surfaces
tblFleetMix	FleetMixLandUseSubType	City Park	Parking Lot
tblLandUse	BuildingSpaceSquareFeet	876,427.20	0.00
tblLandUse	BuildingSpaceSquareFeet	6,169,402.80	0.00
tblLandUse	BuildingSpaceSquareFeet	436,035.60	435,909.00
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	GreenSpaceSquareFeet	13,363,772.40	0.00
tblLandUse	LandUseSquareFeet	876,427.20	0.00
tblLandUse	LandUseSquareFeet	6,169,402.80	0.00
tblLandUse	LandUseSquareFeet	436,035.60	435,909.00
tblLandUse	LandUseSquareFeet	13,363,772.40	14,226.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	26.57
tblVehicleTrips	SU_TR	16.74	26.57
tblVehicleTrips	WD_TR	1.89	21.52
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,348,383.00
tblWater	OutdoorWaterUseRate	365,534,563.26	5,604,975.00
tblWater	SepticTankPercent	10.33	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	lb/day										lb/day					
Area	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.6997	31.4923	74.8624	0.3068	36.8856	0.1616	37.0472	9.8546	0.1502	10.0048		31,559.1511	31,559.1511	1.6027		31,599.2192
Total	7.3364	31.4927	74.9110	0.3068	36.8856	0.1618	37.0474	9.8546	0.1504	10.0050		31,559.2558	31,559.2558	1.6030	0.0000	31,599.3307

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
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
Mobile	6.6997	31.4923	74.8624	0.3068	36.8856	0.1616	37.0472	9.8546	0.1502	10.0048		31,559.1511	31,559.1511	1.6027		31,599.2192

Total	7.3364	31.4927	74.9110	0.3068	36.8856	0.1618	37.0474	9.8546	0.1504	10.0050		31,559.25 58	31,559.255 8	1.6030	0.0000	31,599.33 07
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	ROG	NOx	CO	SO2	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.6997	31.4923	74.8624	0.3068	36.8856	0.1616	37.0472	9.8546	0.1502	10.0048		31,559.15 11	31,559.151 1	1.6027		31,599.21 92
Unmitigated	6.6997	31.4923	74.8624	0.3068	36.8856	0.1616	37.0472	9.8546	0.1502	10.0048		31,559.15 11	31,559.151 1	1.6027		31,599.21 92

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	6,602.12	8,151.41	8,151.41	15,039,557	15,039,557
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	6,602.12	8,151.41	8,151.41	15,039,557	15,039,557

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

NaturalGas Mitigated	0.0000	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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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

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	0.0000
Other Non-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	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	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	lb/day										lb/day					
Mitigated	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Unmitigated	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

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
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SubCategory	lb/day										lb/day					
Architectural Coating	0.1734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1734					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4588					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.4400e-003	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115
Total	0.6366	4.4000e-004	0.0486	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1047	0.1047	2.7000e-004		0.1115

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower
Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Operation - Option B - San Diego County, Summary Report

Operation - Option B

San Diego, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	20.12	Acre	20.12	0.00	0
Other Non-Asphalt Surfaces	141.63	Acre	141.63	0.00	0
Parking Lot	10.01	Acre	10.01	435,909.00	0
City Park	306.79	Acre	306.79	14,226.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - Based on assumed phasing. See assumptions for details.

Construction Phase -

Vehicle Trips - Based on trip generation data provided by STC Traffic, Inc.

Energy Use -

Water And Wastewater - Assumes 100% aerobic. See Assumptions for further details.

Water Mitigation -

2.0 Peak Daily Emissions

Peak Daily Operational Emissions

Peak Daily Operational Emissions

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
	Operational Activity	lb/day											
On-Site	Area	0.6366 S	4.4000e-004 S	0.0486 S	0.0000 S	1.7000e-004 S	1.7000e-004 S	0.6366 S	4.4000e-004 S	0.0486 S	0.0000 S	1.7000e-004 S	1.7000e-004 S
On-Site	Energy	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S
Off-Site	Mobile	6.9262 S	31.4923 W	75.4613 S	0.3231 S	37.0472 W	10.0048 W	6.9262 S	31.4923 W	75.4613 S	0.3231 S	37.0472 W	10.0048 W
	Peak Daily Total	7.5629 S	31.4927 W	75.5098 S	0.3231 S	37.0474 W	10.0050 W	7.5629 S	31.4927 W	75.5098 S	0.3231 S	37.0474 W	10.0050 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Operational	2035	4,741.0268	0.5598	7.9288e-003	4,757.3843	4,732.0896	0.5574	6.5771e-003	4,747.9848
	Total								

	Significance Threshold								
	Exceed Significance?								

Operation - Option B
San Diego County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.94	15.19	19.08	19.74	15.36
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.02	0.19		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Adopted Plan Buildout - San Diego County, Annual

Adopted Plan Buildout San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	285.71	Acre	285.71	14,226.00	0
Other Non-Asphalt Surfaces	151.16	Acre	151.16	0.00	0
Other Asphalt Surfaces	19.65	Acre	19.64	0.00	0
Parking Lot	22.04	Acre	22.04	959,853.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	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 - See Assumptions for details.

Vehicle Trips - Based on the trip generation rate provided by STC Traffic, Inc. and land use types of the Adopted Plan for Fiesta Island.

Water And Wastewater - See Assumptions for details.

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	BuildingSpaceSquareFeet	0.00	14,226.00
tblLandUse	BuildingSpaceSquareFeet	6,584,616.72	0.00
tblLandUse	BuildingSpaceSquareFeet	855,736.20	0.00
tblLandUse	BuildingSpaceSquareFeet	960,062.40	959,853.00
tblLandUse	GreenSpaceSquareFeet	12,445,440.48	0.00
tblLandUse	LandUseSquareFeet	12,445,440.48	14,226.00
tblLandUse	LandUseSquareFeet	6,584,616.72	0.00
tblLandUse	LandUseSquareFeet	855,736.20	0.00
tblLandUse	LandUseSquareFeet	960,062.40	959,853.00
tblProjectCharacteristics	OperationalYear	2018	2035
tblVehicleTrips	ST_TR	22.75	69.13
tblVehicleTrips	SU_TR	16.74	69.13
tblVehicleTrips	WD_TR	1.89	48.48
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	0.00	8,301,558.00
tblWater	OutdoorWaterUseRate	340,418,136.41	5,604,975.00
tblWater	SepticTankPercent	10.33	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	0.1679	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	276.0458	276.0458	0.0111	2.3000e-003	277.0086
Mobile	2.2693	10.9799	25.6221	0.1075	12.4951	0.0559	12.5510	3.3448	0.0519	3.3967	0.0000	10,037.9753	10,037.9753	0.4981	0.0000	10,050.4276
Waste						0.0000	0.0000		0.0000	0.0000	4.9875	0.0000	4.9875	0.2948	0.0000	12.3563
Water						0.0000	0.0000		0.0000	0.0000	2.9371	55.6771	58.6142	0.0124	6.8500e-003	60.9645
Total	2.4372	10.9800	25.6265	0.1075	12.4951	0.0559	12.5510	3.3448	0.0520	3.3968	7.9246	10,369.7067	10,377.6313	0.8163	9.1500e-003	10,400.7661

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1679	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	276.0458	276.0458	0.0111	2.3000e-003	277.0086
Mobile	2.2693	10.9799	25.6221	0.1075	12.4951	0.0559	12.5510	3.3448	0.0519	3.3967	0.0000	10,037.9753	10,037.9753	0.4981	0.0000	10,050.4276
Waste						0.0000	0.0000		0.0000	0.0000	4.9875	0.0000	4.9875	0.2948	0.0000	12.3563
Water						0.0000	0.0000		0.0000	0.0000	2.3497	47.3704	49.7201	9.9900e-003	5.5000e-003	51.6102
Total	2.4372	10.9800	25.6265	0.1075	12.4951	0.0559	12.5510	3.3448	0.0520	3.3968	7.3372	10,361.4001	10,368.7372	0.8140	7.8000e-003	10,391.4118

	ROG	NOx	CO	SO2	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	7.41	0.08	0.09	0.29	14.75	0.09

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	2.2693	10.9799	25.6221	0.1075	12.4951	0.0559	12.5510	3.3448	0.0519	3.3967	0.0000	10,037.9753	10,037.9753	0.4981	0.0000	10,050.4276
Unmitigated	2.2693	10.9799	25.6221	0.1075	12.4951	0.0559	12.5510	3.3448	0.0519	3.3967	0.0000	10,037.9753	10,037.9753	0.4981	0.0000	10,050.4276

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	13,851.12	19,750.99	19750.99	33,168,782	33,168,782
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	13,851.12	19,750.99	19,750.99	33,168,782	33,168,782

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Non-Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Other Asphalt Surfaces	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709
Parking Lot	0.617626	0.036451	0.176904	0.096837	0.011340	0.005282	0.018425	0.026503	0.001944	0.001632	0.005548	0.000800	0.000709

5.0 Energy Detail

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	276.0458	276.0458	0.0111	2.3000e-003	277.0086

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

Mitigated

[illegible]

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	0.0000	0.0000
Other Non-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	0.0000	0.0000
Parking Lot	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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	844671	276.0458	0.0111	2.3000e-003	277.0086
Total		276.0458	0.0111	2.3000e-003	277.0086

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
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Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	844671	276.0458	0.0111	2.3000e-003	277.0086
Total		276.0458	0.0111	2.3000e-003	277.0086

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1679	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Unmitigated	0.1679	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-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	0.0499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Total	0.1679	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-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	0.0499					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-004	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003
Total	0.1679	4.0000e-005	4.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5500e-003	8.5500e-003	2.0000e-005	0.0000	9.1000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.7201	9.9900e-003	5.5000e-003	51.6102
Unmitigated	58.6142	0.0124	6.8500e-003	60.9645

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	8.30156 / 5.60497	58.6142	0.0124	6.8500e-003	60.9645
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		58.6142	0.0124	6.8500e-003	60.9645

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	6.64125 / 5.26307	49.7201	9.9900e-003	5.5000e-003	51.6102
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		49.7201	9.9900e-003	5.5000e-003	51.6102

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.9875	0.2948	0.0000	12.3563
Unmitigated	4.9875	0.2948	0.0000	12.3563

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	24.57	4.9875	0.2948	0.0000	12.3563
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.9875	0.2948	0.0000	12.3563

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	24.57	4.9875	0.2948	0.0000	12.3563
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		4.9875	0.2948	0.0000	12.3563

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Adopted Plan Buildout - San Diego County, Summary Report

Adopted Plan Buildout San Diego, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	285.71	Acre	285.71	14,226.00	0
Other Non-Asphalt Surfaces	151.16	Acre	151.16	0.00	0
Other Asphalt Surfaces	19.65	Acre	19.64	0.00	0
Parking Lot	22.04	Acre	22.04	959,853.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2035
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MW hr)	720.49	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics -

Land Use - See Assumptions for details.

Vehicle Trips - Based on the trip generation rate provided by STC Traffic, Inc. and land use types of the Adopted Plan for Fiesta Island.

Water And Wastewater - See Assumptions for details.

Water Mitigation -

2.0 Peak Daily Emissions

Peak Daily Operational Emissions

Peak Daily Operational Emissions

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
	Operational Activity	lb/day											
On-Site	Area	0.9220 S	4.4000e-004 S	0.0486 S	0.0000 S	1.7000e-004 S	1.7000e-004 S	0.9220 S	4.4000e-004 S	0.0486 S	0.0000 S	1.7000e-004 S	1.7000e-004 S
On-Site	Energy	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S	0.0000 S
Off-Site	Mobile	16.7824 S	76.3063 W	182.8438 S	0.7828 S	89.7660 W	24.2417 W	16.7824 S	76.3063 W	182.8438 S	0.7828 S	89.7660 W	24.2417 W
	Peak Daily Total	17.7044 S	76.3068 W	182.8924 S	0.7828 S	89.7661 W	24.2419 W	17.7044 S	76.3068 W	182.8924 S	0.7828 S	89.7661 W	24.2419 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

		Unmitigated				Mitigated			
		CO2	CH4	N2O	CO2e	CO2	CH4	N2O	CO2e
GHG Activity	Year	MT/yr							
Operational	2035	10,377.6313	0.8163	9.1444e-003	10,400.7644	10,368.7372	0.8140	7.8018e-003	10,391.4114
	Total								
	Significance Threshold								
	Exceed Significance?								

Adopted Plan Buildout
San Diego County, Mitigation Report

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	14.92	15.17	19.11	19.71	15.34
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.01	0.16		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			

No	Land Use	Integrate Below Market Rate Housing	0.00		
	Land Use	Land Use SubTotal	0.00		
No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	250.00
No	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
No	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

1. Health Risk Assessment

1.1 HEALTH RISK ASSESSMENT

The proposed project is an amendment to the Mission Bay Master Plan to update the Fiesta Island Concept Plan (project site). The Fiesta Island Concept Plan includes several diagrams and supporting policies that will guide future recreational improvements on the approximately 448.9-acre island. Campgrounds and beach areas typically allow fire pits so visitors can utilize these wood-burning devices for campfires. The existing project site includes 77 fire pits associated with 34 youth camp sites and 43 open beach pits. An additional 61 fire pits associated with 31 new primitive camp sites and 30 new group day-use sites are included in the update to the Fiesta Island Concept Plan. PlaceWorks has prepared a health risk assessment (HRA) to identify potential impacts to sensitive receptors from new and existing fire pits in beach areas and at campgrounds.

The San Diego Air Pollution Control District (SDAPCD) *Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments (HRAs)* requires facilities submitting HRAs to evaluate the impacts of operational emissions on sensitive receptors (SDAPCD, 2015). The nearest off-site sensitive receptors proximate to the project site include residences approximately 1,000 feet to the north across Fiesta Bay and approximately 2,000 feet to the east across the Enchanted and Northern Coves and Interstate 5. The nearest off-site worker receptors are located at the Hilton San Diego Resort & Spa approximately 700 feet to the east.

This HRA considers the health impact to off-site sensitive receptors (adults and children in the nearby residences) and workers from toxic air contaminants (TACs) emitted by fire pits in beach areas and at campgrounds. It should be noted that these health impacts are based on conservative (i.e., health protective) assumptions. The United States Environmental Protection Agency (USEPA, 2005) and the Office of Environmental Health Hazard Assessment (OEHHA, 2015) note that conservative assumptions used in a risk assessment are intended to ensure that the estimated risks do not underestimate the actual risks. Therefore, the estimated risks may not necessarily represent actual risks experienced by populations at or near a site. The use of conservative assumptions tends to produce upper-bound estimates of exposure and thus risk.

For the residential-based risk assessment, the following conservative assumptions were used:

- It was assumed that maximum-exposed off-site residential receptors (both children and adults) stood outdoors and are subject to camp fire emissions at their residence for 24 hours per day, and approximately 350 days per year. In reality, California residents typically will spend on average 2 hours per day outdoors at their residences (USEPA, 2011). This would result in lower exposures to camp fire emissions and lower estimated risk values.

- The calculated risk for infants from third trimester to age 2 is multiplied by age sensitivity factors of 10 to account for early life exposure and uncertainty in child versus adult exposure impacts (OEHHA, 2015).

For worker-based risk assessment, the following conservative assumptions were used:

- It was assumed that maximum-exposed off-site worker receptors stood outdoors and are subject to camp fire emissions at their place of employment for 24 hours per day, and approximately 250 work days per year. In reality, California workers typically will spend on average 35-40 hours per week at their place of employment (USEPA, 2011). This would result in lower exposures to camp fire emissions and lower estimated risk values.

In addition to the nearby residential receptors, a survey of additional sensitive receptor types was conducted. Several early child care and pre-school receptors are located over 2,200 feet east and northeast of the site. In general, preschool-based sensitive receptors would be present on-site fewer days per year (i.e. typically 180-250 preschool days per year) as compared to residential receptors (i.e. 350 days per year). Additionally, health risk calculations for preschool children would use a different age range (i.e. ages 2 to 5, age sensitivity factor of 3) than child residents (i.e. third trimester pregnancy to age 2, age sensitivity factor of 10). Thus, the determined health risks for child residents would be multiplied by the larger factor of 10 to account for early life exposure as compared to preschool students. Given the distance to the preschools, shorter exposure frequency of preschool occupants compared to residents, and smaller age sensitivity factor for preschool students, the health risk determination was conservatively based on the nearby residential receptors. The preschool receptors were omitted from the evaluation.

1.2 METHODOLOGY AND SIGNIFICANCE THRESHOLDS

For this HRA, the SDAPCD significance thresholds were deemed to be appropriate and the thresholds that were used for this project are shown below:

- Excess cancer risk of more than 10 in a million
- Non-cancer hazard index (chronic or acute) greater than 1.0

The methodology used in this HRA is consistent with the following SDAPCD and the OEHHA guidance documents:

- SDAPCD, 2015. *Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments (HRAs)*. June 2015.
- OEHHA. 2015. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*. February, 2015.

Potential exposures to TACs from camp fires were evaluated for off-site sensitive receptors in close proximity to the site. Pollutant concentrations were estimated using an air dispersion model, and excess lifetime cancer risks and chronic non-cancer hazard indexes were calculated. These risks were then compared to the significance thresholds adopted for this HRA.

1.3 CAMP FIRE EMISSIONS

Operational emission sources evaluated in the HRA include the burning of wood bundles in fire pits. To the degree practical, all contaminant emissions generated from each source were considered. The limiting factor for the inclusion of a compound was the availability of published exposure factors and other toxicity data enabling risks to be quantified and, where appropriate, target organs identified. Emissions generated from wood combustion are based on burning emission factors for total non-methane hydrocarbon (TNMHC) published by the California Air Resources Board (CARB, 2008). The difference between TNMHC and volatile organic compounds (VOCs) is that TNMHC includes exempt compounds (per Title 40 Code of Federal Regulations [CFR] 51.100(s)), while VOC excludes exempt compounds. PlaceWorks assumed VOC and TNMHC are interchangeable for the calculation of VOC emissions from open burning, per SDAPCD recommendations (SDAPCD, 2017). The evaluated TAC species emitted from the wood combustion include acetaldehyde, acrolein, benzene, 1,3-butadiene, ethyl benzene, formaldehyde, cresols, naphthalene, propylene, toluene, and xylenes (USEPA, 2004).

Camp fire emissions were calculated based on the following information and assumptions:

- 34 youth camp sites, 1 fire pit per camp site
- 43 beach open fire pits
- 30 primitive camp sites, 1 fire pit per camp site
- 31 group day-use sites, 1 fire pit per site
- 2 bundles of wood burned per pit, per day
- 100 percent occupancy of campgrounds during summer months (June through September)
- 75 percent occupancy of campgrounds during non-summer months, Saturday and Sunday
- 25 percent occupancy of campgrounds during non-summer months, week days

Average annual and average daily emission rates from camp fires were determined and are presented in the Air Quality Appendix.

1.4 AIR DISPERSION MODELING

To assess the impact of emitted compounds on sensitive receptors near the project, air quality modeling using the AERMOD atmospheric dispersion model was performed. The model is a steady state Gaussian plume model and is an approved model by SDAPCD for estimating ground level impacts from point and fugitive sources in simple and complex terrain. The on-site campgrounds were modeled as poly-area sources and the beach fire pits were modeled as point-sources. The model requires additional input parameters, including chemical emission data and local meteorology. Inputs for the emission rates are those described in Section 1.3. Meteorological data obtained from CARB for the nearest representative meteorological station (San Diego International Airport) with the latest available years (2009-2013) of record were used to represent local weather conditions and prevailing winds.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. To accommodate the model's Cartesian grid format, direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each

source location. In addition, digital elevation model (DEM) data for the area were obtained and included in the model runs to account for complex terrain. A ground release height was used as representative of the fire pits. A graphical representation of emitting sources is presented in HRA Appendix A.

The residential maximum exposed receptor (MER) is mobile home residence approximately 1,800 feet to the east of the project site across Interstate 5 and Morena Boulevard. The worker MER location is at the Hilton Resort and Spa approximately 680 feet east of the site. The air dispersion model output for the emission sources is presented in HRA Appendix B.

1.5 RISK CHARACTERIZATION

1.5.1 Carcinogenic Chemical Risk

A threshold of ten in a million ($10E^{-06}$) has been established as a level posing no significant risk for exposures to carcinogens. Health risks associated with exposure to carcinogenic compounds can be defined in terms of the probability of developing cancer as a result of exposure to a chemical at a given concentration. The cancer risk probability is determined by multiplying the chemical's annual concentration by its cancer potency factor (CPF), a measure of the carcinogenic potential of a chemical when a dose is received through the inhalation pathway. It is an upper-limit estimate of the probability of contracting cancer as a result of continuous exposure to an ambient concentration of one microgram per cubic meter ($\mu\text{g}/\text{m}^3$) over a lifetime of 70 years.

Recent guidance from OEHHHA recommends a refinement to the standard point estimate approach with the use of age-specific breathing rates and age sensitivity factors (ASFs) to assess risk for susceptible subpopulations such as children. For the inhalation pathway, the procedure requires the incorporation of several discrete variates to effectively quantify dose for each age group. Once determined, contaminant dose is multiplied by the cancer potency factor in units of inverse dose expressed in milligrams per kilogram per day ($\text{mg}/\text{kg}/\text{day}$)⁻¹ to derive the cancer risk estimate. Therefore, to accommodate the unique exposures associated with the residential receptors, the following dose algorithm was used.

$$\text{Dose}_{\text{AIR,per age group}} = (C_{\text{air}} \times \text{EF} \times [\frac{\text{BR}}{\text{BW}}] \times A \times \text{CF})$$

Where:

Dose_{AIR}	=	dose by inhalation ($\text{mg}/\text{kg}/\text{day}$), per age group
C_{air}	=	concentration of contaminant in air ($\mu\text{g}/\text{m}^3$)
EF	=	exposure frequency (number of days/365 days)
BR/BW	=	daily breathing rate normalized to body weight ($\text{L}/\text{kg}/\text{day}$)
A	=	inhalation absorption factor (default = 1)
CF	=	conversion factor (1×10^{-6} , μg to mg , L to m^3)

The inhalation absorption factor (A) is a unitless factor that is only used if the cancer potency factor included a correction for absorption across the lung. For this assessment, the default value of 1 was used. For residential receptors, the exposure frequency (EF) of 0.96 is used to represent 350 days per year to allow for a two week period away from home each year (OEHHHA, 2015). The 95th percentile daily breathing rates

(BR/BW), exposure duration (ED), age sensitivity factors (ASFs), and fraction of time at home (FAH) for the various age groups are provided herein:

<u>Age Groups</u>	<u>BR/BW (L/kg-day)</u>	<u>ED</u>	<u>ASF</u>	<u>FAH</u>
Third trimester	361	0.25	10	0.85
0-2 age group	1,090	2	10	0.85
2-9 age group	861	7	3	0.72
2-16 age group	745	14	3	0.72
16-30 age group	335	14	1	0.73
16-70 age group	290	54	1	0.73

To calculate the overall cancer risk, the risk for each appropriate age group is calculated per the following equation:

$$\text{Cancer Risk}_{\text{AIR}} = \text{Dose}_{\text{AIR}} \times \text{CPF} \times \text{ASF} \times \text{FAH} \times \frac{\text{ED}}{\text{AT}}$$

Where:

Dose _{AIR}	=	dose by inhalation (mg/kg-day), per age group
CPF	=	cancer potency factor, chemical-specific (mg/kg-day) ⁻¹
ASF	=	age sensitivity factor, per age group
FAH	=	fraction of time at home, per age group (for residential receptors only)
ED	=	exposure duration (years)
AT	=	averaging time period over which exposure duration is averaged (70 years)

The CPFs used in the assessment were obtained from OEHHA guidance. The excess lifetime cancer risks during the construction period to the maximally exposed resident were calculated based on the factors provided above. The cancer risks for each age group are summed to estimate the total cancer risk for each toxic chemical species. The final step converts the cancer risk in scientific notation to a whole number that expresses the cancer risk in “chances per million” by multiplying the cancer risk by a factor of 1x10⁶ (i.e. 1 million).

The assessment was based on reasonable maximum exposure, defined as the “highest exposure that is reasonably expected to occur” for a given receptor population. Lifetime risk values for the adult residents were calculated for an exposure of 350 days per year for 30 years (high-end estimate) in accordance with OEHHA’s guidance. Additionally, the maximum lifetime residency exposure (70-year scenario) and the average residency exposure (9-year scenario) risk values were determined for informational purposes. It was assumed that the MER spent 24 hours/day, 7 days/week, 350 days/year outside near the residence, as per default exposure parameters. The exposure duration for the worker scenario is 25 years (OEHHA, 2015).

CARB’s Hotspots Analysis and Reporting Program (HARP2), Risk Assessment Standalone Tool was used to calculate the cancer risk values (CARB, 2017). The calculated results are provided in Section 1.6 and HRA Appendix C.

1.5.2 Non-Carcinogenic Hazards

An evaluation of the potential non-cancer effects of chronic and acute chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor level (ground) concentration of each chemical compound with the appropriate reference exposure limit (REL). Available RELs promulgated by OEHHA were considered in the assessment.

To quantify non-carcinogenic impacts, the hazard index approach was used. The hazard index assumes that chronic and acute sub-threshold exposures adversely affect a specific organ or organ system (toxicological endpoint). For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the hazard index, each chemical concentration or dose is divided by the appropriate toxicity value. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds one, a health hazard is presumed to exist.

CARB's HARP2, Risk Assessment Standalone Tool was used to calculate the chronic and acute 1-hour health risk values (CARB, 2017). The chronic and acute hazard analysis from TAC exposure is provided Section 1.6 and in HRA Appendix C.

1.6 HRA RESULTS

The calculated results are provided in HRA Appendix C and the results are summarized in Table 1.

TABLE 1. RISK SUMMARY

Receptor	Cancer Risk (per million)	Chronic Hazards	Acute Hazards
Residential MER	0.69	0.002	0.010
Worker MER	0.12	0.004	0.016
SDAPCD Threshold	10	1.0	0.3
Exceeds Threshold?	No	No	No

Source: HARP2 Risk Assessment Standalone Tool, version 17023 (CARB, 2017).

Cancer risk for the maximum exposed off-site resident MER and off-site worker MER from fire pit emissions was calculated to be 0.69 in a million and 0.12 in a million, which are below the 10 in a million significance threshold. For non-carcinogenic effects, the chronic and acute hazard indices identified for each toxicological endpoint totaled less than one for both off-site residents and workers. Therefore, chronic and acute non-carcinogenic hazards are within acceptable limits.

Based on a comparison to the carcinogenic and non-carcinogenic thresholds established by OEHHA and SDAPCD, hazardous air emissions generated from operation of the fire pits in beach areas and at campgrounds are not anticipated to pose an actual or potential endangerment to the surrounding sensitive receptors and no mitigation measures are required.

2. References

- California Air Resources Board (CARB). 2017. Hotspots Analysis and Report Program (HARP), Risk Assessment Standalone Tool (RAST), Version 2.
- _____. 2009-2013. Meteorological Data Set for San Diego International Airport Meteorological Station. <https://www.arb.ca.gov/toxics/harp/metfiles2.htm> (accessed September 21, 2017).
- _____. 2008. Smoke Emission Estimator, Table 2 Prescribed Burning Emission Factors by Fuel Component for Wood 3+ in. <https://www.arb.ca.gov/ei/see/see.htm> (accessed September 21, 2017).
- Office of Environmental Health Hazard Assessment (OEHHA). 2015. *Air Toxics Hot Spots Program Guidance Manual for the Preparation of Health Risk Assessments*. Dated February 2015.
- San Diego Air Pollution Control District (SDAPCD), 2015. *Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments (HRAs)*. Dated June 2015.
- _____. 2017. Email correspondence between Angela Ortega, Rule Development Supervisor of SDAPCD and John Vang, JD, Associate Planner of PlaceWorks, Dated September 14, 2017.
- United States Environmental Protection Agency (USEPA). 2011. *Exposure Factors Handbook 2011 Edition (Final)*. EPA/600/R-09/052F, 2011.
- _____. 2005. *Guideline on Air Quality Models* (Revised). EPA-450/2-78-027R.
- _____. 2004. SPECIATE Data Browser, Fireplace Wood Combustion - Pine Wood. https://cfpub.epa.gov/speciate/ehpa_speciate_browse_details.cfm?ptype=G&pnumber=4642 (accessed September 21, 2017).

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Appendix A. Graphical Representation of Emitting Sources

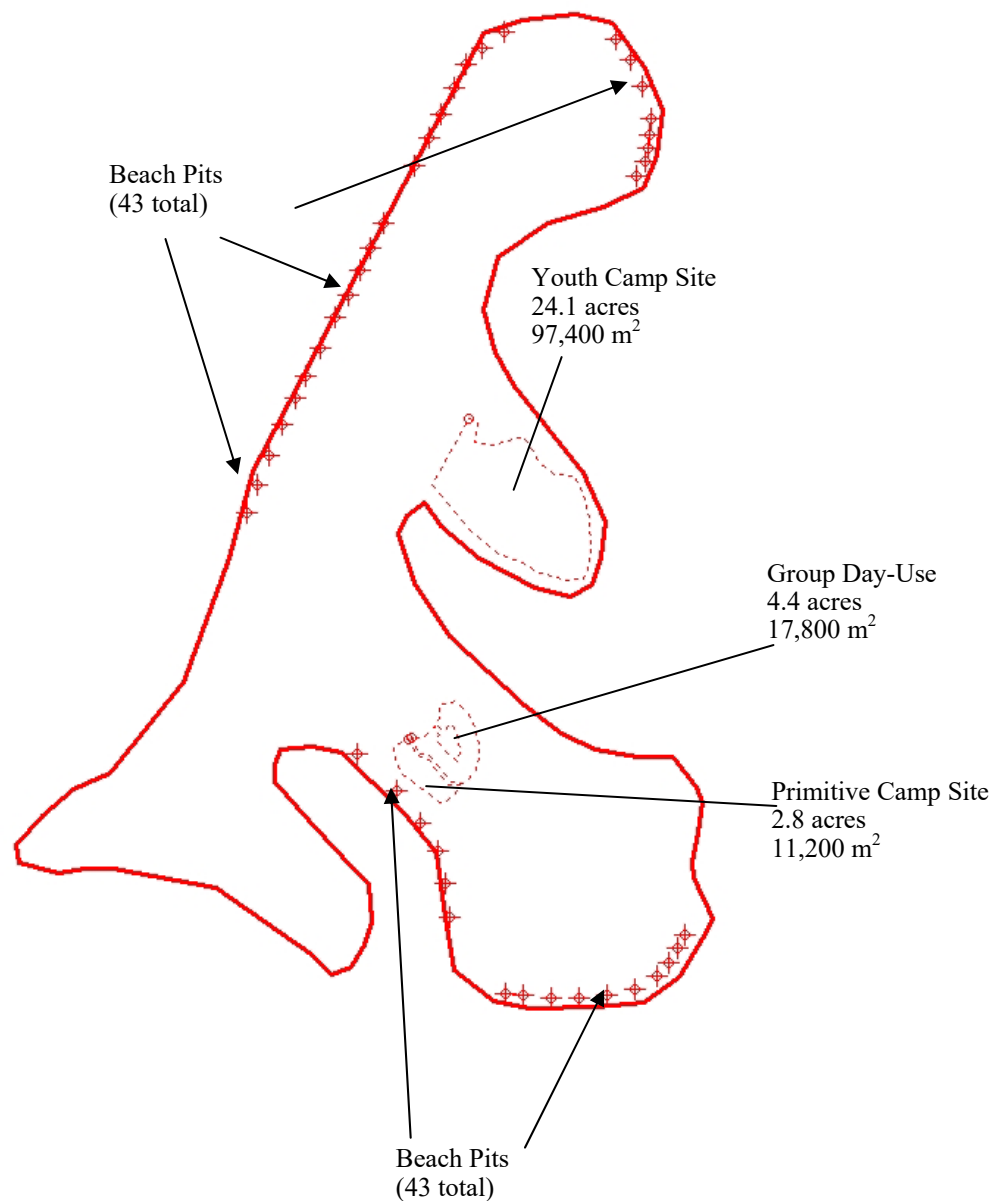
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Source Fiesta Island

Youth Camp: 34 existing fire pits
Open Beach Pits: 43 existing fire pits
Primitive Camp: 30 proposed fire pits
Group Day-Use Sites: 31 proposed fire pits
2 buddles of wood per pit per day



Occupation rates: 100% during the summer; 75% during non-summer weekend,
25% during non-summer weekday



- Lot area is based upon Google Earth Pro, Version 7.3.

Assumptions

32 lbs
0.016 tons

Existing No. of Fire Rings: *

77

34 youth camp sites, 43 beach pits

Proposed No. of Fire Rings: *

138

61 new; 30 primitive camp sites, 31 group day-use sites

Emission Rates

Source California Air Resources Board Smoke Emission Estimation. <https://www.arb.ca.gov/ei/see/see.htm>

Project (138 Campsites)								Biogenic CO ₂
	Days	VOC lbs/year	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}	
25% occupied non-winter weekday	179	1,423	4	20,335	227	2,134	1,808	315,869
75% occupied non-winter weekend	64	1,526	4	21,812	244	2,289	1,940	338,810
100% occupied summer (June-Sept)	122	3,879	11	55,438	620	5,819	4,930	861,141
Total	lbs/year	6,828	19	97,584	1,091	10,242	8,677	1,515,820
Total	Tons/year	3.4	0.01	49	0.55	5.1	4.3	758
							MTCO₂e	688

			Youth	Primitive	Group		Beach	
Project Emission Rates	lbs/day	18.7	24.1	2.8	4.4	Acres	43	pits
VOC Emissions	lbs/hr	0.78	9.74E+04	1.12E+04	1.78E+04	m ²		
for HRA analysis	g/s	0.098	2.48E-07	1.90E-06	1.24E-06	g/s/m ²	7.12E-04	g/s/pit
			77.1%	8.9%	14.1%	%		

While Campsites may include other sources of emissions, such as campstoves (propane and butane), campfires are assumed to be the greatest source of emissions associated with campgrounds. Consequently, these other minor sources of emissions are nominal in comparison. Other sources of energy use are included in the CalEEMod inventory and include natural gas use from the general park facilities.

Appendix B. Air Dispersion Model Output

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Model Output Residential Receptors

Results Summary

Fiesta Island HRA
Camp Fires

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.09288	ug/m^3	480616.29	3626450.55	4.97	0.00	4.97	

Concentration - Source Group: BEACHPIT

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.33044	ug/m^3	480916.29	3628050.55	18.78	0.00	18.78	12/12/2013, 17
PERIOD		0.03195	ug/m^3	479675.75	3628303.26	1.74	0.00	1.74	

Concentration - Source Group: DAYUSE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.15132	ug/m^3	480716.29	3626650.55	15.26	0.00	15.26	12/12/2013, 17
PERIOD		0.01807	ug/m^3	480766.29	3626050.55	3.89	0.00	3.89	

Concentration - Source Group: PRIMITIV

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.04228	ug/m^3	480816.29	3626650.55	18.26	0.00	18.26	12/12/2013, 17
PERIOD		0.01268	ug/m^3	480766.29	3626050.55	3.89	0.00	3.89	

Model Output
Residential Receptors

Results Summary

Fiesta Island HRA
Camp Fires

Concentration - Source Group: YOUTH

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.40065	ug/m^3	480616.29	3626650.55	12.81	0.00	12.81	1/9/2011, 19
PERIOD		0.05730	ug/m^3	480616.29	3626450.55	4.97	0.00	4.97	

Model Output Residential Receptors

*** AERMOD - VERSION 16216r *** *** Fiesta Island HRA *** 09/26/17
*** AERMET - VERSION 14134 *** *** Camp Fires *** 14:30:45
PAGE 1

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONcEntration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 46 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 1400000.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEvated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 46 Source(s); 5 Source Group(s); and 471 Receptor(s)

with: 43 POINT(s), including
 0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 3 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

Model Output Residential Receptors

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 4.60 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.7 MB of RAM.

**Detailed Error/Message File: fiesta.err

**File for Summary of Results: fiesta.sum

Model Output Residential Receptors

*** AERMOD - VERSION 16216r ***
 *** AERMET - VERSION 14134 ***

*** Fiesta Island HRA
 *** Camp Fires

*** 09/29/17
 *** 14:28:09
 *** PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.71200E-03	479062.4	3626725.8	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK2	0	0.71200E-03	479088.8	3626796.5	1.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK3	0	0.71200E-03	479121.2	3626874.4	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK4	0	0.71200E-03	479154.2	3626953.1	1.6	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK5	0	0.71200E-03	479186.6	3627021.1	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK6	0	0.71200E-03	479213.0	3627076.6	1.7	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK7	0	0.71200E-03	479252.0	3627147.9	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK8	0	0.71200E-03	479289.0	3627224.6	1.7	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK9	0	0.71200E-03	479322.0	3627284.4	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK10	0	0.71200E-03	479350.9	3627346.8	1.6	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK11	0	0.71200E-03	479377.7	3627402.6	1.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK12	0	0.71200E-03	479413.4	3627467.2	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK13	0	0.71200E-03	480091.9	3627690.7	2.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK14	0	0.71200E-03	479491.4	3627612.2	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK15	0	0.71200E-03	479529.3	3627683.5	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK16	0	0.71200E-03	479558.3	3627745.9	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK17	0	0.71200E-03	479591.7	3627810.6	1.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK18	0	0.71200E-03	479622.9	3627870.8	1.4	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK19	0	0.71200E-03	479663.1	3627913.1	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK20	0	0.71200E-03	479721.0	3627955.5	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK21	0	0.71200E-03	480006.4	3627935.4	2.2	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK22	0	0.71200E-03	480044.3	3627881.9	2.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK23	0	0.71200E-03	480073.3	3627817.3	2.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK24	0	0.71200E-03	480095.6	3627732.5	2.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK25	0	0.71200E-03	480086.7	3627656.7	2.7	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK26	0	0.71200E-03	480057.7	3627585.4	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK27	0	0.71200E-03	480080.0	3627623.3	2.3	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK28	0	0.71200E-03	480182.5	3625650.2	3.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK29	0	0.71200E-03	480164.7	3625614.5	4.2	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK30	0	0.71200E-03	480140.2	3625578.9	4.4	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK31	0	0.71200E-03	480111.2	3625543.2	3.3	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK32	0	0.71200E-03	480055.5	3625512.0	2.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK33	0	0.71200E-03	479981.9	3625496.4	2.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK34	0	0.71200E-03	479912.8	3625489.7	2.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK35	0	0.71200E-03	479841.4	3625487.5	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK36	0	0.71200E-03	479770.1	3625496.4	2.4	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK37	0	0.71200E-03	479723.3	3625498.6	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK38	0	0.71200E-03	479580.6	3625694.8	1.4	0.00	873.15	0.01	1.22	NO	YES	NO	

Model Output Residential Receptors

STCK39	0	0.71200E-03	479571.7	3625779.5	1.6	0.00	873.15	0.01	1.22	NO	YES	NO
STCK40	0	0.71200E-03	479549.4	3625862.0	2.0	0.00	873.15	0.01	1.22	NO	YES	NO
STCK41	0	0.71200E-03	479507.0	3625933.4	1.5	0.00	873.15	0.01	1.22	NO	YES	NO
STCK42	0	0.71200E-03	479444.6	3626015.8	1.6	0.00	873.15	0.01	1.22	NO	YES	NO
STCK43	0	0.71200E-03	479346.5	3626110.8	2.6	0.00	873.15	0.01	1.22	NO	YES	NO

*** AERMOD - VERSION 16216r ***	*** Fiesta Island HRA	***	09/29/17
*** AERMET - VERSION 14134 ***	*** Camp Fires	***	14:28:09
*** MODELOPTs: RegDFAULT CONC ELEV URBAN			PAGE 4

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X Y (METERS) (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.24800E-06	479629.3 3626968.6	6.2	0.00	20	0.00	YES	
PAREA2	0	0.19000E-05	479474.9 3626148.5	6.1	0.00	11	0.00	YES	
PAREA3	0	0.12400E-05	479483.2 3626150.9	6.1	0.00	26	0.00	YES	

Model Output Residential Receptors

*** AERMOD - VERSION 16216r ***
 *** AERMET - VERSION 14134 ***
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** Fiesta Island HRA
 *** Camp Fires

*** 09/26/17
 *** 14:30:45
 *** PAGE 5

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
-----	-----
YOUTH	PAREA1 ,
PRIMITIV	PAREA2 ,
DAYUSE	PAREA3 ,
BEACHPIT	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 , STCK8 ,
	STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
	STCK17 , STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 ,
	STCK25 , STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 ,
	STCK33 , STCK34 , STCK35 , STCK36 , STCK37 , STCK38 , STCK39 , STCK40 ,
	STCK41 , STCK42 , STCK43 ,
ALL	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 , STCK8 ,
	STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
	STCK17 , STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 ,
	STCK25 , STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 ,
	STCK33 , STCK34 , STCK35 , STCK36 , STCK37 , STCK38 , STCK39 , STCK40 ,
	STCK41 , STCK42 , STCK43 , PAREA1 , PAREA2 , PAREA3 ,

Model Output

Residential Receptors

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*** AERMOD - VERSION 16216r ***   *** Fiesta Island HRA
*** AERMET - VERSION 14134 ***   *** Camp Fires

*** MODELOPTs:   RegDFAULT  CONC  ELEV  URBAN

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*** 14:30:45
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs							
-----	-----	-----							
STCK8	1400000.	STCK1	, STCK2	, STCK3	, STCK4	, STCK5	, STCK6	, STCK7	,
	,								
	STCK9	, STCK10	, STCK11	, STCK12	, STCK13	, STCK14	, STCK15	, STCK16	,
	STCK17	, STCK18	, STCK19	, STCK20	, STCK21	, STCK22	, STCK23	, STCK24	,
	STCK25	, STCK26	, STCK27	, STCK28	, STCK29	, STCK30	, STCK31	, STCK32	,
	STCK33	, STCK34	, STCK35	, STCK36	, STCK37	, STCK38	, STCK39	, STCK40	,
	STCK41	, STCK42	, STCK43	, PAREA1	, PAREA2	, PAREA3	,		

Model Output

Residential Receptors

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*** AERMOD - VERSION 16216r ***      *** Fiesta Island HRA
*** AERMET - VERSION 14134 ***      *** Camp Fires
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*** 14:30:45
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*** MODELOPTs:      RegDFault  CONC  ELEV  URBAN
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

Model Output Residential Receptors

*** AERMOD - VERSION 16216r ***
 *** AERMET - VERSION 14134 ***

*** Fiesta Island HRA
 *** Camp Fires

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\met data\722900.SFC
 Profile file: ..\met data\722900.PFL
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 23188

Upper air station no.: 3190
 Name: UNKNOWN
 Year: 2009

Met Version: 14134

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
09	01	01	1	01	-7.9	0.118	-9.000	-9.000	-999.	97.	18.6	0.37	0.95	1.00	1.76	11.	10.0	282.5	2.0			
09	01	01	1	02	-18.0	0.318	-9.000	-9.000	-999.	430.	161.4	0.37	0.95	1.00	2.86	18.	10.0	282.5	2.0			
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	282.5	2.0			
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	282.0	2.0			
09	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	281.4	2.0			
09	01	01	1	06	-8.3	0.146	-9.000	-9.000	-999.	134.	33.9	0.35	0.95	1.00	1.76	342.	10.0	280.9	2.0			
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	280.4	2.0			
09	01	01	1	08	-7.4	0.166	-9.000	-9.000	-999.	163.	56.6	0.35	0.95	0.49	1.76	343.	10.0	280.9	2.0			
09	01	01	1	09	38.3	0.459	0.419	0.007	70.	746.	-229.2	0.47	0.95	0.29	3.36	297.	10.0	281.4	2.0			
09	01	01	1	10	58.3	0.348	0.576	0.007	119.	501.	-65.6	0.47	0.95	0.22	2.36	291.	10.0	283.1	2.0			
09	01	01	1	11	118.8	0.342	0.880	0.007	208.	479.	-30.5	0.35	0.95	0.20	2.36	304.	10.0	286.4	2.0			
09	01	01	1	12	129.3	0.429	1.007	0.007	286.	674.	-55.3	0.47	0.95	0.19	2.86	286.	10.0	287.5	2.0			
09	01	01	1	13	127.0	0.505	1.111	0.007	391.	861.	-91.9	0.35	0.95	0.19	3.86	303.	10.0	287.5	2.0			
09	01	01	1	14	107.2	0.482	1.111	0.007	463.	803.	-94.3	0.47	0.95	0.20	3.36	289.	10.0	288.1	2.0			
09	01	01	1	15	70.3	0.491	1.009	0.007	529.	825.	-152.0	0.35	0.95	0.23	3.86	312.	10.0	288.1	2.0			
09	01	01	1	16	25.7	0.532	0.734	0.007	556.	931.	-530.7	0.35	0.95	0.32	4.36	304.	10.0	287.0	2.0			
09	01	01	1	17	-35.6	0.430	-9.000	-9.000	-999.	686.	202.2	0.35	0.95	0.59	3.86	301.	10.0	284.9	2.0			
09	01	01	1	18	-23.2	0.414	-9.000	-9.000	-999.	639.	276.3	0.47	0.95	1.00	3.36	277.	10.0	284.9	2.0			
09	01	01	1	19	-14.0	0.249	-9.000	-9.000	-999.	319.	99.9	0.37	0.95	1.00	2.36	4.	10.0	284.9	2.0			
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	284.2	2.0			
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	284.2	2.0			
09	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	283.1	2.0			
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	283.1	2.0			
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	283.1	2.0			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	11.	1.76	282.6	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

Results Summary

Fiesta Island HRA
Camp Fires

Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.20576	ug/m^3	480224.41	3626640.00	2.72	0.00	2.72	

Concentration - Source Group: BEACHPIT

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.21976	ug/m^3	478845.17	3625385.59	10.06	0.00	14.47	1/19/2010, 7
PERIOD		0.02872	ug/m^3	480124.41	3626990.00	2.78	0.00	2.78	

Concentration - Source Group: DAYUSE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.65897	ug/m^3	479195.17	3625385.59	4.41	0.00	4.41	1/8/2010, 22
PERIOD		0.02261	ug/m^3	480174.41	3626740.00	2.72	0.00	2.72	

Concentration - Source Group: PRIMITIV

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.80850	ug/m^3	479195.17	3625385.59	4.41	0.00	4.41	12/26/2013, 21
PERIOD		0.02702	ug/m^3	479195.17	3625385.59	4.41	0.00	4.41	

Results Summary

Fiesta Island HRA
Camp Fires

Concentration - Source Group: YOUTH

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	2.56361	ug/m^3	480174.41	3626740.00	2.72	0.00	2.72	1/13/2009, 19
PERIOD		0.14468	ug/m^3	480224.41	3626640.00	2.72	0.00	2.72	

Model Output Worker Receptors

*** AERMOD - VERSION 16216r *** *** Fiesta Island HRA *** 09/28/17
*** AERMET - VERSION 14134 *** *** Camp Fires *** 10:36:52
*** MODELOPTs: RegDFAULT CONC ELEV URBAN *** PAGE 1

*** MODEL SETUP OPTIONS SUMMARY ***

**Model Is Setup For Calculation of Average CONCentration Values.

-- DEPOSITION LOGIC --

**NO GAS DEPOSITION Data Provided.

**NO PARTICLE DEPOSITION Data Provided.

**Model Uses NO DRY DEPLETION. DRYDPLT = F

**Model Uses NO WET DEPLETION. WETDPLT = F

**Model Uses URBAN Dispersion Algorithm for the SBL for 46 Source(s),
for Total of 1 Urban Area(s):
Urban Population = 1400000.0 ; Urban Roughness Length = 1.000 m

**Model Uses Regulatory DEFAULT Options:

1. Stack-tip Downwash.
2. Model Accounts for ELEVated Terrain Effects.
3. Use Calms Processing Routine.
4. Use Missing Data Processing Routine.
5. No Exponential Decay.
6. Urban Roughness Length of 1.0 Meter Assumed.

**Other Options Specified:

CCVR_Sub - Meteorological data includes CCVR substitutions

TEMP_Sub - Meteorological data includes TEMP substitutions

**Model Assumes No FLAGPOLE Receptor Heights.

**The User Specified a Pollutant Type of: OTHER

**Model Calculates 1 Short Term Average(s) of: 1-HR
and Calculates PERIOD Averages

**This Run Includes: 46 Source(s); 5 Source Group(s); and 187 Receptor(s)

with: 43 POINT(s), including
 0 POINTCAP(s) and 0 POINTHOR(s)
and: 0 VOLUME source(s)
and: 3 AREA type source(s)
and: 0 LINE source(s)
and: 0 OPENPIT source(s)
and: 0 BUOYANT LINE source(s) with 0 line(s)

**Model Set To Continue RUNning After the Setup Testing.

Model Output Worker Receptors

**The AERMET Input Meteorological Data Version Date: 14134

**Output Options Selected:

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 4.60 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ; Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Detailed Error/Message File: fiestaworker.err

**File for Summary of Results: fiestaworker.sum

Model Output Worker Receptors

*** AERMOD - VERSION 16216r ***
 *** AERMET - VERSION 14134 ***

*** Fiesta Island HRA
 *** Camp Fires

*** 09/29/17
 *** 15:34:04
 *** PAGE 2

*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** POINT SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	STACK HEIGHT (METERS)	STACK TEMP. (DEG.K)	STACK EXIT VEL. (M/SEC)	STACK DIAMETER (METERS)	BLDG EXISTS	URBAN SOURCE	CAP/ HOR	EMIS RATE SCALAR VARY BY
STCK1	0	0.71200E-03	479062.4	3626725.8	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK2	0	0.71200E-03	479088.8	3626796.5	1.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK3	0	0.71200E-03	479121.2	3626874.4	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK4	0	0.71200E-03	479154.2	3626953.1	1.6	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK5	0	0.71200E-03	479186.6	3627021.1	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK6	0	0.71200E-03	479213.0	3627076.6	1.7	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK7	0	0.71200E-03	479252.0	3627147.9	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK8	0	0.71200E-03	479289.0	3627224.6	1.7	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK9	0	0.71200E-03	479322.0	3627284.4	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK10	0	0.71200E-03	479350.9	3627346.8	1.6	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK11	0	0.71200E-03	479377.7	3627402.6	1.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK12	0	0.71200E-03	479413.4	3627467.2	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK13	0	0.71200E-03	480091.9	3627690.7	2.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK14	0	0.71200E-03	479491.4	3627612.2	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK15	0	0.71200E-03	479529.3	3627683.5	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK16	0	0.71200E-03	479558.3	3627745.9	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK17	0	0.71200E-03	479591.7	3627810.6	1.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK18	0	0.71200E-03	479622.9	3627870.8	1.4	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK19	0	0.71200E-03	479663.1	3627913.1	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK20	0	0.71200E-03	479721.0	3627955.5	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK21	0	0.71200E-03	480006.4	3627935.4	2.2	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK22	0	0.71200E-03	480044.3	3627881.9	2.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK23	0	0.71200E-03	480073.3	3627817.3	2.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK24	0	0.71200E-03	480095.6	3627732.5	2.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK25	0	0.71200E-03	480086.7	3627656.7	2.7	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK26	0	0.71200E-03	480057.7	3627585.4	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK27	0	0.71200E-03	480080.0	3627623.3	2.3	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK28	0	0.71200E-03	480182.5	3625650.2	3.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK29	0	0.71200E-03	480164.7	3625614.5	4.2	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK30	0	0.71200E-03	480140.2	3625578.9	4.4	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK31	0	0.71200E-03	480111.2	3625543.2	3.3	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK32	0	0.71200E-03	480055.5	3625512.0	2.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK33	0	0.71200E-03	479981.9	3625496.4	2.9	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK34	0	0.71200E-03	479912.8	3625489.7	2.5	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK35	0	0.71200E-03	479841.4	3625487.5	2.0	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK36	0	0.71200E-03	479770.1	3625496.4	2.4	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK37	0	0.71200E-03	479723.3	3625498.6	1.8	0.00	873.15	0.01	1.22	NO	YES	NO	
STCK38	0	0.71200E-03	479580.6	3625694.8	1.4	0.00	873.15	0.01	1.22	NO	YES	NO	

Model Output Worker Receptors

STCK39	0	0.71200E-03	479571.7	3625779.5	1.6	0.00	873.15	0.01	1.22	NO	YES	NO
STCK40	0	0.71200E-03	479549.4	3625862.0	2.0	0.00	873.15	0.01	1.22	NO	YES	NO
STCK41	0	0.71200E-03	479507.0	3625933.4	1.5	0.00	873.15	0.01	1.22	NO	YES	NO
STCK42	0	0.71200E-03	479444.6	3626015.8	1.6	0.00	873.15	0.01	1.22	NO	YES	NO
STCK43	0	0.71200E-03	479346.5	3626110.8	2.6	0.00	873.15	0.01	1.22	NO	YES	NO

*** AERMOD - VERSION 16216r ***	*** Fiesta Island HRA	***	09/29/17
*** AERMET - VERSION 14134 ***	*** Camp Fires	***	15:34:04
*** MODELOPTs: RegDFAULT CONC ELEV URBAN			PAGE 4

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X Y (METERS) (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA1	0	0.24800E-06	479629.3 3626968.6	6.2	0.00	20	0.00	YES	
PAREA2	0	0.19000E-05	479474.9 3626148.5	6.1	0.00	11	0.00	YES	
PAREA3	0	0.12400E-05	479483.2 3626150.9	6.1	0.00	26	0.00	YES	

Model Output Worker Receptors

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*** AERMOD - VERSION 16216r ***    *** Fiesta Island HRA
*** AERMET - VERSION 14134 ***    *** Camp Fires
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*** MODELOPTs: RegDFault CONC ELEV URBAN

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID

SOURCE IDs

YOUTH	PAREA1	,
PRIMITIV	PAREA2	,
DAYUSE	PAREA3	,
BEACHPIT	STCK1	, STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 , STCK8 ,
	STCK9	, STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
	STCK17	, STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 ,
	STCK25	, STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 ,
	STCK33	, STCK34 , STCK35 , STCK36 , STCK37 , STCK38 , STCK39 , STCK40 ,
	STCK41	, STCK42 , STCK43 ,
ALL	STCK1	, STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 , STCK8 ,
	STCK9	, STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
	STCK17	, STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 ,
	STCK25	, STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 ,
	STCK33	, STCK34 , STCK35 , STCK36 , STCK37 , STCK38 , STCK39 , STCK40 ,
	STCK41	, STCK42 , STCK43 , PAREA1 , PAREA2 , PAREA3 ,

Model Output Worker Receptors

*** AERMOD - VERSION 16216r ***
*** AERMET - VERSION 14134 ***
*** MODELOPTs: RegDFAULT CONC ELEV URBAN

*** Fiesta Island HRA
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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
-----	-----	-----
STCK8	1400000.	STCK1 , STCK2 , STCK3 , STCK4 , STCK5 , STCK6 , STCK7 ,
		STCK9 , STCK10 , STCK11 , STCK12 , STCK13 , STCK14 , STCK15 , STCK16 ,
		STCK17 , STCK18 , STCK19 , STCK20 , STCK21 , STCK22 , STCK23 , STCK24 ,
		STCK25 , STCK26 , STCK27 , STCK28 , STCK29 , STCK30 , STCK31 , STCK32 ,
		STCK33 , STCK34 , STCK35 , STCK36 , STCK37 , STCK38 , STCK39 , STCK40 ,
		STCK41 , STCK42 , STCK43 , PAREA1 , PAREA2 , PAREA3 ,

Model Output Worker Receptors

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*** AERMOD - VERSION 16216r ***    *** Fiesta Island HRA
*** AERMET - VERSION 14134 ***    *** Camp Fires
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*** MODELOPTs: RegDFault CONC ELEV URBAN

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

[illegible]

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

Model Output Worker Receptors

*** AERMOD - VERSION 16216r ***
 *** AERMET - VERSION 14134 ***

*** Fiesta Island HRA
 *** Camp Fires

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*** MODELOPTs: RegDEFAULT CONC ELEV URBAN

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\met data\722900.SFC
 Profile file: ..\met data\722900.PFL
 Surface format: FREE
 Profile format: FREE
 Surface station no.: 23188

Upper air station no.: 3190
 Name: SAN_DIEGO/LINDBERGH_FIELD
 Year: 2009

Met Version: 14134

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT
09	01	01	1	01	-7.9	0.118	-9.000	-9.000	-999.	97.	18.6	0.37	0.95	1.00	1.76	11.	10.0	282.5	2.0			
09	01	01	1	02	-18.0	0.318	-9.000	-9.000	-999.	430.	161.4	0.37	0.95	1.00	2.86	18.	10.0	282.5	2.0			
09	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	282.5	2.0			
09	01	01	1	04	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	282.0	2.0			
09	01	01	1	05	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	281.4	2.0			
09	01	01	1	06	-8.3	0.146	-9.000	-9.000	-999.	134.	33.9	0.35	0.95	1.00	1.76	342.	10.0	280.9	2.0			
09	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	280.4	2.0			
09	01	01	1	08	-7.4	0.166	-9.000	-9.000	-999.	163.	56.6	0.35	0.95	0.49	1.76	343.	10.0	280.9	2.0			
09	01	01	1	09	38.3	0.459	0.419	0.007	70.	746.	-229.2	0.47	0.95	0.29	3.36	297.	10.0	281.4	2.0			
09	01	01	1	10	58.3	0.348	0.576	0.007	119.	501.	-65.6	0.47	0.95	0.22	2.36	291.	10.0	283.1	2.0			
09	01	01	1	11	118.8	0.342	0.880	0.007	208.	479.	-30.5	0.35	0.95	0.20	2.36	304.	10.0	286.4	2.0			
09	01	01	1	12	129.3	0.429	1.007	0.007	286.	674.	-55.3	0.47	0.95	0.19	2.86	286.	10.0	287.5	2.0			
09	01	01	1	13	127.0	0.505	1.111	0.007	391.	861.	-91.9	0.35	0.95	0.19	3.86	303.	10.0	287.5	2.0			
09	01	01	1	14	107.2	0.482	1.111	0.007	463.	803.	-94.3	0.47	0.95	0.20	3.36	289.	10.0	288.1	2.0			
09	01	01	1	15	70.3	0.491	1.009	0.007	529.	825.	-152.0	0.35	0.95	0.23	3.86	312.	10.0	288.1	2.0			
09	01	01	1	16	25.7	0.532	0.734	0.007	556.	931.	-530.7	0.35	0.95	0.32	4.36	304.	10.0	287.0	2.0			
09	01	01	1	17	-35.6	0.430	-9.000	-9.000	-999.	686.	202.2	0.35	0.95	0.59	3.86	301.	10.0	284.9	2.0			
09	01	01	1	18	-23.2	0.414	-9.000	-9.000	-999.	639.	276.3	0.47	0.95	1.00	3.36	277.	10.0	284.9	2.0			
09	01	01	1	19	-14.0	0.249	-9.000	-9.000	-999.	319.	99.9	0.37	0.95	1.00	2.36	4.	10.0	284.9	2.0			
09	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	284.2	2.0			
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	284.2	2.0			
09	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	283.1	2.0			
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	283.1	2.0			
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.46	0.95	1.00	0.00	0.	10.0	283.1	2.0			

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	11.	1.76	282.6	99.0	-99.00	-99.00

F indicates top of profile (=1) or below (=0)

Appendix C. Risk Calculations

Table C1
MER Concentration Worksheet
Residential Scenario

Source No.	Source	Contaminant	Weight Fraction	AERMOD Output ¹ Annual Avg (µg/m ³) (e)	Annual Average MER Concentration (µg/m ³) (f)	AERMOD Output ¹ 1-Hour (µg/m ³) (g)	Acute (1-Hour) MER Concentration (µg/m ³) (h)
(a)	(b)	(c)	(d)				
1	Youth Camps (VOC)	Acetaldehyde	8.95E-02	5.73E-02	5.13E-03	1.40E+00	1.25E-01
		Acrolein	3.30E-03		1.89E-04		4.62E-03
		Benzene	2.00E-02		1.15E-03		2.80E-02
		1,3-Butadiene	6.10E-03		3.50E-04		8.54E-03
		Ethyl benzene	1.20E-03		6.88E-05		1.68E-03
		Formaldehyde	6.12E-02		3.51E-03		8.57E-02
		Cresol	2.47E-02		1.42E-03		3.46E-02
		Naphthalene	1.20E-02		6.88E-04		1.68E-02
		Propylene	2.30E-02		1.32E-03		3.22E-02
		Toluene	8.30E-03		4.76E-04		1.16E-02
		Xylenes	1.32E-02		7.56E-04		1.85E-02
2	Primitive Camps (VOC)	Acetaldehyde	8.95E-02	1.27E-02	1.13E-03	1.04E+00	9.33E-02
		Acrolein	3.30E-03		4.18E-05		3.44E-03
		Benzene	2.00E-02		2.54E-04		2.08E-02
		1,3-Butadiene	6.10E-03		7.73E-05		6.36E-03
		Ethyl benzene	1.20E-03		1.52E-05		1.25E-03
		Formaldehyde	6.12E-02		7.76E-04		6.38E-02
		Cresol	2.47E-02		3.13E-04		2.57E-02
		Naphthalene	1.20E-02		1.52E-04		1.25E-02
		Propylene	2.30E-02		2.92E-04		2.40E-02
		Toluene	8.30E-03		1.05E-04		8.65E-03
		Xylenes	1.32E-02		1.67E-04		1.38E-02
3	Group Day-Use Sites (VOC)	Acetaldehyde	8.95E-02	1.81E-02	1.62E-03	1.15E+00	1.03E-01
		Acrolein	3.30E-03		5.96E-05		3.80E-03
		Benzene	2.00E-02		3.61E-04		2.30E-02
		1,3-Butadiene	6.10E-03		1.10E-04		7.02E-03
		Ethyl benzene	1.20E-03		2.17E-05		1.38E-03
		Formaldehyde	6.12E-02		1.11E-03		7.05E-02
		Cresol	2.47E-02		4.46E-04		2.84E-02
		Naphthalene	1.20E-02		2.17E-04		1.38E-02
		Propylene	2.30E-02		4.16E-04		2.65E-02
		Toluene	8.30E-03		1.50E-04		9.56E-03
		Xylenes	1.32E-02		2.39E-04		1.52E-02
4	Beach Pits (VOC)	Acetaldehyde	8.95E-02	3.20E-02	2.86E-03	3.30E-01	2.96E-02
		Acrolein	3.30E-03		1.05E-04		1.09E-03
		Benzene	2.00E-02		6.39E-04		6.61E-03
		1,3-Butadiene	6.10E-03		1.95E-04		2.02E-03
		Ethyl benzene	1.20E-03		3.83E-05		3.97E-04
		Formaldehyde	6.12E-02		1.96E-03		2.02E-02
		Cresol	2.47E-02		7.89E-04		8.16E-03
		Naphthalene	1.20E-02		3.83E-04		3.97E-03
		Propylene	2.30E-02		7.35E-04		7.60E-03
		Toluene	8.30E-03		2.65E-04		2.74E-03
		Xylenes	1.32E-02		4.22E-04		4.36E-03
Note: Maximum Exposed Receptor (MER)					For Cancer/Chronic Calculation		For Acute Calculation

TOG Speciation based on USEPA SPECIATE Data Browser, Fireplace Wood Combustion - Pine Wood (2004).
https://cfpub.epa.gov/speciate/ehpa_speciate_browse_details.cfm?ptype=G&number=4642

¹ AERMOD Output (Appendix B) at the maximum exposed receptor (MER).

Table C2
HARP2 Results for Cancer Risk and Chronic Hazards
Residential Scenario

No.	Source	Contaminant	Carcinogenic Risks	Chronic Non-Cancer Risks ² - Toxicological Endpoints*											
			Residential 30-year ¹	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD
(a)	(b)	(c)	per million (d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
1	Youth Camps (VOC)	Acetaldehyde	3.2E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.66E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.40E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	7.1E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.82E-04
		1,3-Butadiene	1.3E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	3.7E-04	0.00E+00	0.00E+00	0.00E+00	3.44E-08	3.44E-08	3.44E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-08	0.00E+00
		Formaldehyde	4.6E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.90E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	2.36E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	5.1E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.64E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	1.59E-06	0.00E+00	0.00E+00	0.00E+00	1.59E-06	1.59E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	1.08E-06	0.00E+00	0.00E+00	0.00E+00	1.08E-06	1.08E-06	0.00E+00	1.08E-06	0.00E+00	0.00E+00	0.00E+00
2	Primitive Camps (VOC)	Acetaldehyde	7.0E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	1.6E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.45E-05
		1,3-Butadiene	2.9E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.87E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	8.2E-05	0.00E+00	0.00E+00	0.00E+00	7.61E-09	7.61E-09	7.61E-09	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.61E-09	0.00E+00
		Formaldehyde	1.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.62E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	5.22E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	1.1E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.69E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	3.51E-07	0.00E+00	0.00E+00	0.00E+00	3.51E-07	3.51E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	2.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-07	0.00E+00	2.39E-07	0.00E+00	0.00E+00	0.00E+00
3	Group Day-Use Sites (VOC)	Acetaldehyde	1.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.70E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	2.2E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04
		1,3-Butadiene	4.1E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.51E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	1.2E-04	0.00E+00	0.00E+00	0.00E+00	1.08E-08	1.08E-08	1.08E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-08	0.00E+00
		Formaldehyde	1.4E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	7.44E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	1.6E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.41E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.39E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	5.00E-07	0.00E+00	0.00E+00	0.00E+00	5.00E-07	5.00E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	3.41E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.41E-07	0.00E+00	3.41E-07	0.00E+00	0.00E+00	0.00E+00

Table C2
HARP2 Results for Cancer Risk and Chronic Hazards
Residential Scenario

No.	Source	Contaminant	Carcinogenic Risks	Chronic Non-Cancer Risks ² - Toxicological Endpoints*												
			Residential 30-year ¹	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD	
			per million	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	
4	Beach Pits (VOC)	Acetaldehyde	1.8E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	4.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
		1,3-Butadiene	7.2E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.74E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	2.1E-04	0.00E+00	0.00E+00	0.00E+00	1.92E-08	1.92E-08	1.92E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.92E-08	0.00E+00	0.00E+00
		Formaldehyde	2.5E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.17E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	1.32E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	2.9E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	8.84E-07	0.00E+00	0.00E+00	0.00E+00	8.84E-07	8.84E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.02E-07	0.00E+00	6.02E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total - All Sources			0.69	0.00E+00	1.05E-05	0.00E+00	7.20E-08	7.20E-08	3.69E-04	2.19E-03	0.00E+00	2.26E-06	0.00E+00	7.20E-08	8.00E-04	

Note: Health risks calculated using HARP2, Risk Assessment Standalone Tool, version 17023 (CARB, 2017).

using HARP2, Risk Assessment Standalone 2017).			Total Cancer Risk		Staff	0.69	per million
			Maximum Chronic Hazard Index			0.002	RESP
	3rd Trimester	0 < 2 years	2 < 16 years	16 < 30 years	age bin		
Dose Exposure Factors:	350	350	350	350	exposure frequency (days/year)		
	361	1090	745	335	inhalation rate (L/kg-day) ²		
	1	1	1	1	inhalation absorption factor		
Risk Calculation Factors:	10	10	3	1	age sensitivity factor		
	0.25	2	14	14	exposure duration (years)		
	70	70	70	70	averaging time (years)		
	0.85	0.85	0.72	0.73	fraction of time at home		

* Key to Toxicological Endpoints
CV Cardiovascular System
CNS Central Nervous System
IMMUN Immune System
KIDN Kidneys
GILV Gastrointestinal Tract and Liver/Alimentary Tract
RESP Respiratory System
REPRO Reproductive System
SKIN Skin irritation and/or other effects
EYE Eye irritation and/or other effects
BONE Bones and Teeth
ENDO Endocrine System
BLOOD Hematological System

¹ For informational purposes, the 70-year and 9-year cancer risks are 0.8 and 0.5 in a million, respectively.

² Inhalation rate taken as the 95th percentile breathing rates (OEHHA, 2015).

Table C3
HARP2 Results for Acute Hazards
Residential Scenario

Source No.	Source	Contaminant	Acute Non-Cancer Risks - Toxicological Endpoints*											
			CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Youth Camps (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.67E-04	0.00E+00	2.67E-04	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	1.04E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E-03
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.29E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.56E-03	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	3.14E-07	0.00E+00	0.00E+00	0.00E+00	3.14E-07	3.14E-07	0.00E+00	3.14E-07	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	8.40E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.40E-07	0.00E+00	8.40E-07	0.00E+00	0.00E+00	0.00E+00
2	Primitive Camps (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-04	0.00E+00	1.98E-04	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.38E-03	0.00E+00	1.38E-03	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	7.72E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.72E-04
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.63E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.16E-03	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	2.34E-07	0.00E+00	0.00E+00	0.00E+00	2.34E-07	2.34E-07	0.00E+00	2.34E-07	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	6.25E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.25E-07	0.00E+00	6.25E-07	0.00E+00	0.00E+00	0.00E+00
3	Group Day-Use Sites (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-04	0.00E+00	2.19E-04	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.52E-03	0.00E+00	1.52E-03	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	8.53E-04	0.00E+00	0.00E+00	8.53E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.53E-04
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.06E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.28E-03	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	2.58E-07	0.00E+00	0.00E+00	0.00E+00	2.58E-07	2.58E-07	0.00E+00	2.58E-07	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	6.91E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.91E-07	0.00E+00	6.91E-07	0.00E+00	0.00E+00	0.00E+00

Table C3
HARP2 Results for Acute Hazards
Residential Scenario

Source No.	Source	Contaminant	Acute Non-Cancer Risks - Toxicological Endpoints*												
			CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
4	Beach Pits (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.29E-05	0.00E+00	6.29E-05	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.36E-04	0.00E+00	4.36E-04	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.05E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.68E-04	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	7.41E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.41E-08	7.41E-08	0.00E+00	7.41E-08	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	1.98E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.98E-07	0.00E+00	1.98E-07	0.00E+00	0.00E+00	0.00E+00
Total - All Sources			0.00E+00	3.24E-06	2.91E-03	0.00E+00	0.00E+00	2.94E-03	5.93E-03	0.00E+00	1.03E-02	0.00E+00	0.00E+00	2.91E-03	

Note: Health risks calculated using HARP2, Risk Assessment Standalone Tool, version 17023 (CARB, 2017).

Maximum Acute Hazard Index 0.010 Eye

* Key to Toxicological Endpoints

CV	Cardiovascular System	RESP	Respiratory System
CNS	Central Nervous System	SKIN	Skin irritation and/or other effects
IMMUN	Immune System	EYE	Eye irritation and/or other effects
KIDN	Kidneys	BONE	Bones and Teeth
GILV	Gastrointestinal Tract and Liver/Alimentary Tract	ENDO	Endocrine System
REPRO	Reproductive System	BLOOD	Hematological System

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Table C4
MER Concentration Worksheet
Worker Scenario

Source No.	Source	Contaminant	Weight Fraction	AERMOD Output ¹ Annual Avg	Annual Average MER Concentration	AERMOD Output ¹ 1-Hour	Acute (1-Hour) MER Concentration
(a)	(b)	(c)	(d)	(µg/m ³) (e)	(µg/m ³) (f)	(µg/m ³) (g)	(µg/m ³) (h)
1	Youth Camps (VOC)	Acetaldehyde	8.95E-02	1.45E-01	1.29E-02	2.56E+00	2.29E-01
		Acrolein	3.30E-03		4.77E-04		8.46E-03
		Benzene	2.00E-02		2.89E-03		5.13E-02
		1,3-Butadiene	6.10E-03		8.83E-04		1.56E-02
		Ethyl benzene	1.20E-03		1.74E-04		3.08E-03
		Formaldehyde	6.12E-02		8.85E-03		1.57E-01
		Cresol	2.47E-02		3.57E-03		6.33E-02
		Naphthalene	1.20E-02		1.74E-03		3.08E-02
		Propylene	2.30E-02		3.33E-03		5.90E-02
		Toluene	8.30E-03		1.20E-03		2.13E-02
		Xylenes	1.32E-02		1.91E-03		3.38E-02
2	Primitive Camps (VOC)	Acetaldehyde	8.95E-02	2.70E-02	2.42E-03	1.81E+00	1.62E-01
		Acrolein	3.30E-03		8.92E-05		5.97E-03
		Benzene	2.00E-02		5.40E-04		3.62E-02
		1,3-Butadiene	6.10E-03		1.65E-04		1.10E-02
		Ethyl benzene	1.20E-03		3.24E-05		2.17E-03
		Formaldehyde	6.12E-02		1.65E-03		1.11E-01
		Cresol	2.47E-02		6.67E-04		4.47E-02
		Naphthalene	1.20E-02		3.24E-04		2.17E-02
		Propylene	2.30E-02		6.21E-04		4.16E-02
		Toluene	8.30E-03		2.24E-04		1.50E-02
		Xylenes	1.32E-02		3.57E-04		2.39E-02
3	Group Day-Use Sites (VOC)	Acetaldehyde	8.95E-02	2.26E-02	2.02E-03	1.66E+00	1.48E-01
		Acrolein	3.30E-03		7.46E-05		5.47E-03
		Benzene	2.00E-02		4.52E-04		3.32E-02
		1,3-Butadiene	6.10E-03		1.38E-04		1.01E-02
		Ethyl benzene	1.20E-03		2.71E-05		1.99E-03
		Formaldehyde	6.12E-02		1.38E-03		1.02E-01
		Cresol	2.47E-02		5.58E-04		4.10E-02
		Naphthalene	1.20E-02		2.71E-04		1.99E-02
		Propylene	2.30E-02		5.20E-04		3.82E-02
		Toluene	8.30E-03		1.88E-04		1.38E-02
		Xylenes	1.32E-02		2.98E-04		2.19E-02
4	Beach Pits (VOC)	Acetaldehyde	8.95E-02	2.87E-02	2.57E-03	2.20E-01	1.97E-02
		Acrolein	3.30E-03		9.48E-05		7.25E-04
		Benzene	2.00E-02		5.74E-04		4.40E-03
		1,3-Butadiene	6.10E-03		1.75E-04		1.34E-03
		Ethyl benzene	1.20E-03		3.45E-05		2.64E-04
		Formaldehyde	6.12E-02		1.76E-03		1.34E-02
		Cresol	2.47E-02		7.09E-04		5.43E-03
		Naphthalene	1.20E-02		3.45E-04		2.64E-03
		Propylene	2.30E-02		6.61E-04		5.05E-03
		Toluene	8.30E-03		2.38E-04		1.82E-03
		Xylenes	1.32E-02		3.79E-04		2.90E-03
Note: Maximum Exposed Receptor (MER) - Worker					For Cancer/Chronic Calculation		For Acute Calculation

TOG Speciation based on USEPA SPECIATE Data Browser, Fireplace Wood Combustion - Pine Wood (2004).
https://cfpub.epa.gov/speciate/ehpa_speciate_browse_details.cfm?ptype=G&number=4642

¹ AERMOD Output (Appendix B) at the maximum exposed receptor (MER).

Table C5
HARP2 Results for Cancer Risk and Chronic Hazards
Worker Scenario

No.	Source	Contaminant	Carcinogenic Risks	Chronic Non-Cancer Risks - Toxicological Endpoints*											
			Worker 25-year	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD
			per million	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
1	Youth Camps (VOC)	Acetaldehyde	7.3E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.25E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	1.6E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.65E-04
		1,3-Butadiene	3.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.41E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	8.5E-05	0.00E+00	0.00E+00	0.00E+00	8.68E-08	8.68E-08	8.68E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.68E-08	0.00E+00
		Formaldehyde	1.0E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	5.96E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	1.2E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.93E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	4.00E-06	0.00E+00	0.00E+00	0.00E+00	4.00E-06	4.00E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.73E-06	0.00E+00	2.73E-06	0.00E+00	0.00E+00	0.00E+00
2	Primitive Camps (VOC)	Acetaldehyde	1.4E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.55E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	3.0E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04
		1,3-Butadiene	5.6E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.24E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	1.6E-05	0.00E+00	0.00E+00	0.00E+00	1.62E-08	1.62E-08	1.62E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.62E-08	0.00E+00
		Formaldehyde	2.0E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	1.11E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	2.2E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.60E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.07E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	7.48E-07	0.00E+00	0.00E+00	0.00E+00	7.48E-07	7.48E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	5.10E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-07	0.00E+00	5.10E-07	0.00E+00	0.00E+00	0.00E+00
3	Group Day-Use Sites (VOC)	Acetaldehyde	1.1E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	2.5E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.51E-04
		1,3-Butadiene	4.7E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	1.3E-05	0.00E+00	0.00E+00	0.00E+00	1.36E-08	1.36E-08	1.36E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.36E-08	0.00E+00
		Formaldehyde	1.6E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	9.31E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	1.8E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	6.26E-07	0.00E+00	0.00E+00	0.00E+00	6.26E-07	6.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	4.26E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.26E-07	0.00E+00	4.26E-07	0.00E+00	0.00E+00	0.00E+00

Table C5
HARP2 Results for Cancer Risk and Chronic Hazards
Worker Scenario

No.	Source	Contaminant	Carcinogenic Risks	Chronic Non-Cancer Risks - Toxicological Endpoints*											
			Worker 25-year	CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD
			per million												
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
4	Beach Pits (VOC)	Acetaldehyde	1.4E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.84E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.71E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Benzene	3.2E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.91E-04
		1,3-Butadiene	5.9E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.76E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	1.7E-05	0.00E+00	0.00E+00	0.00E+00	1.72E-08	1.72E-08	1.72E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.72E-08	0.00E+00
		Formaldehyde	2.1E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.95E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.0E+00	0.00E+00	1.18E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	2.3E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.83E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.0E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.0E+00	0.00E+00	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.95E-07	7.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.0E+00	0.00E+00	5.42E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-07	0.00E+00	5.42E-07	0.00E+00	0.00E+00	0.00E+00
Total - All Sources			0.12	0.00E+00	1.96E-05	0.00E+00	1.34E-07	1.34E-07	6.87E-04	4.07E-03	0.00E+00	4.21E-06	0.00E+00	1.34E-07	1.49E-03

Note: Health risks calculated using HARP2, Risk Assessment Standalone Tool, version 17023 (CARB, 2017).

Total Cancer Risk **Staff** **0.12** per million
Maximum Chronic Hazard Index **0.004** **RESP**

* Key to Toxicological Endpoints
CV Cardiovascular System
CNS Central Nervous System
IMMUN Immune System
KIDN Kidneys
GILV Gastrointestinal Tract and Liver/Alimentary Tract
RESP Respiratory System
REPRO Reproductive System
SKIN Skin irritation and/or other effects
EYE Eye irritation and/or other effects
BONE Bones and Teeth
ENDO Endocrine System
BLOOD Hematological System

16 < 70 years age bin

Dose Exposure Factors: 250 exposure frequency (days/year)
 230 inhalation rate (L/kg-8-hours) ¹
 1 inhalation absorption factor

Risk Calculation Factors: 1 age sensitivity factor
 25 exposure duration (years)
 70 averaging time (years)
 1 fraction of time at home (not applicable)

¹ Inhalation rate (8-hour) taken as the 95th percentile breathing rates for moderate intensity activities (OEHH, 2015).

Table C6
HARP2 Results for Acute Hazards
Worker Scenario

Source No.	Source	Contaminant	Acute Non-Cancer Risks - Toxicological Endpoints*											
			CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)
1	Youth Camps (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.88E-04	0.00E+00	4.88E-04	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.38E-03	0.00E+00	3.38E-03	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	1.90E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.90E-03
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.37E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.85E-03	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	5.75E-07	0.00E+00	0.00E+00	0.00E+00	5.75E-07	5.75E-07	0.00E+00	5.75E-07	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	1.54E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.54E-06	0.00E+00	1.54E-06	0.00E+00	0.00E+00	0.00E+00
2	Primitive Camps (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.44E-04	0.00E+00	3.44E-04	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.39E-03	0.00E+00	2.39E-03	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	1.34E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.34E-03
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.67E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E-03	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	4.06E-07	0.00E+00	0.00E+00	0.00E+00	4.06E-07	4.06E-07	0.00E+00	4.06E-07	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E-06	0.00E+00	1.09E-06	0.00E+00	0.00E+00	0.00E+00
3	Group Day-Use Sites (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.16E-04	0.00E+00	3.16E-04	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.19E-03	0.00E+00	2.19E-03	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	1.23E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.23E-03
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.53E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-03	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	3.72E-07	0.00E+00	0.00E+00	0.00E+00	3.72E-07	3.72E-07	0.00E+00	3.72E-07	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	9.95E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.95E-07	0.00E+00	9.95E-07	0.00E+00	0.00E+00	0.00E+00

Table C6
HARP2 Results for Acute Hazards
Worker Scenario

Source No.	Source	Contaminant	Acute Non-Cancer Risks - Toxicological Endpoints*												
			CV	CNS	IMMUN	KIDNEY	GILV	REPRO	RESP	SKIN	EYE	BONE	ENDO	BLOOD	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	
4	Beach Pits (VOC)	Acetaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.18E-05	0.00E+00	4.18E-05	0.00E+00	0.00E+00	0.00E+00
		Acrolein	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	0.00E+00	2.90E-04	0.00E+00	0.00E+00	0.00E+00
		Benzene	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	1.63E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.63E-04
		1,3-Butadiene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Ethyl benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Formaldehyde	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.45E-04	0.00E+00	0.00E+00	0.00E+00
		Cresol	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Naphthalene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Propylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Toluene	0.00E+00	4.93E-08	0.00E+00	0.00E+00	0.00E+00	4.93E-08	4.93E-08	0.00E+00	4.93E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
		Xylenes	0.00E+00	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.32E-07	0.00E+00	1.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total - All Sources			0.00E+00	5.15E-06	4.63E-03	0.00E+00	0.00E+00	4.69E-03	9.45E-03	0.00E+00	1.64E-02	0.00E+00	0.00E+00	4.63E-03	

Note: Health risks calculated using HARP2, Risk Assessment Standalone Tool, version 17023 (CARB, 2017).

Maximum Acute Hazard Index 0.016 Eye

* Key to Toxicological Endpoints

CV	Cardiovascular System	RESP	Respiratory System
CNS	Central Nervous System	SKIN	Skin irritation and/or other effects
IMMUN	Immune System	EYE	Eye irritation and/or other effects
KIDN	Kidneys	BONE	Bones and Teeth
GILV	Gastrointestinal Tract and Liver/Alimentary Tract	ENDO	Endocrine System
REPRO	Reproductive System	BLOOD	Hematological System