

Appendix A
**Air Quality, Energy, and
Greenhouse Gas Emissions
Calculations**

Air Quality Construction Analysis

Unmitigated Construction Scenario

Regional	lbs/day					
	ROG	NOX	CO	SO2	PM10 Total	Total PM2.5
Demolition	2.3	22.0	20.2	0.1	1.5	1.0
Site Preparation	2.7	27.6	20.2	0.1	8.5	5.1
Grading	1.8	19.3	15.9	0.0	3.5	2.1
Building Construction - Utility & Sidewalk	1.6	14.6	18.3	0.0	1.5	0.9
Paving - Bikeway Construction	1.1	9.0	12.8	0.0	0.7	0.5
Striping	2.5	1.3	2.2	0.0	0.2	0.1
Daily Maximum Emissions	2.7	27.6	20.2	0.1	8.5	5.1
SCAQMD Regional Threshold	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Air Quality Construction Analysis

Unmitigated Construction Scenario				
Localized Emissions Summary	NOX	CO	PM10	Total
	lb/hr			
0				
Demolition	21.5	19.7	1.3	1.0
Site Preparation	27.5	18.2	8.3	5.0
Grading	18.5	15.4	3.3	2.0
Building Construction - Utility & Sidewalk	14.4	16.3	0.7	0.7
Paving - Bikeway Construction	8.9	12.3	0.4	0.4
Striping	1.3	1.8	0.1	0.1
Daily Maximum Emissions	27.5	19.7	8.3	5.0
SCAQMD Localized Threshold	197	1804	12	8
Exceeds Threshold?	No	No	No	No

Air Quality Construction Analysis

summer	Onsite Construction Emissions (CalEEMod) + Onsite Idling (EMFAC2017)										Offsite Construction Emissions - Running (EMFAC2017)									
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day										lb/day									
Demolition	2.29	21.51	19.67	0.06	0.30	1.00	1.30	0.05	0.93	0.97	0.01	0.50	0.49	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Site Preparation	2.66	27.52	18.24	0.04	7.05	1.27	8.31	3.87	1.16	5.04	0.01	0.03	0.48	0.00	0.20	0.00	0.20	0.05	0.00	0.05
Grading	1.75	18.46	15.37	0.03	2.56	0.78	3.33	1.31	0.71	2.03	0.01	0.86	0.55	0.01	0.17	0.01	0.17	0.04	0.01	0.05
Building Construction - Utility & Sidewalk	1.58	14.42	16.29	0.03	0.00	0.70	0.70	0.00	0.66	0.66	0.04	0.16	1.97	0.01	0.82	0.00	0.82	0.22	0.00	0.22
Paving - Bikeway Construction	1.04	8.87	12.28	0.02	0.00	0.44	0.44	0.00	0.40	0.40	0.01	0.09	0.55	0.00	0.22	0.00	0.22	0.06	0.00	0.06
Striping	2.50	1.30	1.81	0.00	0.00	0.07	0.07	0.00	0.07	0.07	0.01	0.03	0.40	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Regional Emissions - ALL	Regional Emissions (On-Site Construction + Worker + Visitors +Vendor+Haul)																			
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5										
Demolition	2.30	22.01	20.15	0.07	0.47	1.00	1.47	0.09	0.93	1.02										
Site Preparation	2.67	27.56	18.73	0.04	7.25	1.27	8.51	3.93	1.17	5.09										
Grading	1.77	19.32	15.92	0.04	2.72	0.78	3.50	1.36	0.72	2.08										
Building Construction - Utility & Sidewalk	1.61	14.59	18.26	0.03	0.82	0.70	1.52	0.22	0.66	0.88										
Paving - Bikeway Construction	1.05	8.96	12.83	0.02	0.22	0.44	0.66	0.06	0.40	0.46										
Striping	2.51	1.33	2.22	0.00	0.17	0.07	0.24	0.04	0.07	0.12										
Maximum Daily Emissions	2.67	27.56	20.15	0.07	7.25	1.27	8.51	3.93	1.17	5.09										

Air Quality Construction Analysis

Winter	Onsite Construction Emissions (CalEEMod) + Onsite Idling (EMFAC2017)										Offsite Construction Emissions - Running (EMFAC2017)									
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5
	lb/day										lb/day									
Demolition	2.29	21.51	19.67	0.06	0.30	1.00	1.30	0.05	0.93	0.97	0.01	0.50	0.49	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Site Preparation	2.66	27.52	18.24	0.04	7.05	1.27	8.31	3.87	1.16	5.04	0.01	0.03	0.48	0.00	0.20	0.00	0.20	0.05	0.00	0.05
Grading	1.75	18.46	15.37	0.03	2.56	0.78	3.33	1.31	0.71	2.03	0.01	0.86	0.55	0.01	0.17	0.01	0.17	0.04	0.01	0.05
Building Construction - Utility & Sidewalk	1.58	14.42	16.29	0.03	0.00	0.70	0.70	0.00	0.66	0.66	0.04	0.16	1.97	0.01	0.82	0.00	0.82	0.22	0.00	0.22
Paving - Bikeway Construction	1.04	8.87	12.28	0.02	0.00	0.44	0.44	0.00	0.40	0.40	0.01	0.09	0.55	0.00	0.22	0.00	0.22	0.06	0.00	0.06
Striping	2.50	1.30	1.81	0.00	0.00	0.07	0.07	0.00	0.07	0.07	0.01	0.03	0.40	0.00	0.17	0.00	0.17	0.04	0.00	0.05
Regional Emissions - ALL	Regional Emissions (On-Site Construction + Worker + Visitors +Vendor+Haul)																			
	ROG	NOX	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	Total PM2.5										
Demolition	2.30	22.01	20.15	0.07	0.47	1.00	1.47	0.09	0.93	1.02										
Site Preparation	2.67	27.56	18.73	0.04	7.25	1.27	8.51	3.93	1.17	5.09										
Grading	1.77	19.32	15.92	0.04	2.72	0.78	3.50	1.36	0.72	2.08										
Building Construction - Utility & Sidewalk	1.61	14.59	18.26	0.03	0.82	0.70	1.52	0.22	0.66	0.88										
Paving - Bikeway Construction	1.05	8.96	12.83	0.02	0.22	0.44	0.66	0.06	0.40	0.46										
Striping	2.51	1.33	2.22	0.00	0.17	0.07	0.24	0.04	0.07	0.12										
Maximum Daily Emissions	2.67	27.56	20.15	0.07	7.25	1.27	8.51	3.93	1.17	5.09										

Total On-Road Emissions

Total On-Road Emissions

260 Max construction days per year

Construction Phase	Daily One-Way Trips	Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (pounds/day)											(MT/yr) Total CO2e
						ROG	NOX	CO	SO2	PM10 Dust	PM10 Exh	Total PM10	PM2.5 Dust	PM2.5 Exh	Total PM2.5		
Demolition																	
2023																	
Total Haul Trips 74																	
Demolition Hauling	4	21	8	20	15	0.03	0.78	0.43	0.00	0.07	0.00	0.07	0.02	0.00	0.02	3.00	
2023Vendor Vendor	0	21	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Worker Worker	15	21	8	14.7	0	0.01	0.03	0.40	0.00	0.17	0.00	0.17	0.04	0.00	0.05	1.32	
Onroad Emissions - Demolition						0.04	0.80	0.84	0.00	0.24	0.00	0.24	0.06	0.00	0.07	4.32	
Site Preparation																	
2023																	
Total Haul Trips 0																	
2023Hauling Hauling	0	20	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Vendor Vendor	0	20	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Worker Worker	18	20	8	14.7	0	0.01	0.03	0.48	0.00	0.20	0.00	0.20	0.05	0.00	0.05	1.50	
Onroad Emissions - Site Preparation						0.01	0.03	0.48	0.00	0.20	0.00	0.20	0.05	0.00	0.05	1.50	
Grading																	
2023																	
Total Haul Trips 148																	
2023Hauling Hauling	7	23	8	20	15	0.05	1.36	0.76	0.00	0.12	0.01	0.13	0.03	0.01	0.04	5.75	
2023Vendor Vendor	0	23	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Worker Worker	15	23	8	14.7	0	0.01	0.03	0.40	0.00	0.17	0.00	0.17	0.04	0.00	0.05	1.44	
Onroad Emissions - Grading						0.06	1.39	1.16	0.01	0.29	0.01	0.30	0.08	0.01	0.08	7.19	
Building Construction - Utility & Sidewalk																	
2023																	
Total Haul Trips 0																	
2023Hauling Hauling	0	86	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Vendor Vendor	1	86	8	6.9	15	0.00	0.07	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	1.06	
2023Worker Worker	73	86	8	14.7	0	0.04	0.13	1.97	0.01	0.82	0.00	0.82	0.22	0.00	0.22	26.23	
Onroad Emissions - Building Construction - Utility & Sidewalk						0.04	0.20	2.02	0.01	0.82	0.00	0.83	0.22	0.00	0.22	27.29	
Paving - Bikeway Construction																	
2023																	
Total Haul Trips 0																	
2023Hauling Hauling	0	88	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Vendor Vendor	2	88	8	6.9	15	0.01	0.14	0.10	0.00	0.01	0.00	0.01	0.00	0.00	0.00	2.16	
2023Worker Worker	20	88	8	14.7	0	0.01	0.04	0.54	0.00	0.22	0.00	0.22	0.06	0.00	0.06	7.35	
Onroad Emissions - Paving - Bikeway Construction						0.02	0.17	0.64	0.00	0.24	0.00	0.24	0.06	0.00	0.06	9.51	
Striping																	
2023																	
Total Haul Trips 0																	
2023Hauling Hauling	0	21	8	20	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Vendor Vendor	0	21	8	6.9	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2023Worker Worker	15	21	8	14.7	0	0.01	0.03	0.40	0.00	0.17	0.00	0.17	0.04	0.00	0.05	1.32	
Onroad Emissions - Striping						0.01	0.03	0.40	0.00	0.17	0.00	0.17	0.04	0.00	0.05	1.32	

Running Emissions

	Running Emissions Factor (grams/mile)						Running Emissions Factor (grams/mile)			
	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	
2020Hauling Hauling	0.12467436	4.127586075	0.70244559	0.01389473	0.04956172	0.04741766	1520.07529	0.08121693	0.2410944	
2020Vendor Vendor	0.12175156	3.217634225	0.70325362	0.01222293	0.05527116	0.05287672	1311.85371	0.04440854	0.18764154	
2020Worker Worker	0.02296702	0.083024116	1.08430473	0.00306823	0.00220351	0.002029	310.119284	0.00538825	0.00712331	
2021Hauling Hauling	0.08103572	3.571515626	0.57499969	0.01347655	0.0279869	0.02677616	1477.43548	0.08019506	0.23446951	
2021Vendor Vendor	0.0717977	2.602453214	0.52331731	0.01185125	0.02991351	0.02861613	1273.54109	0.04239589	0.18204996	
2021Worker Worker	0.01983596	0.07223241	0.98341812	0.00297251	0.00205695	0.00189393	300.448479	0.00471177	0.00646256	
2022Hauling Hauling	0.02463044	2.696920068	0.45130496	0.01267644	0.01843607	0.0176385	1394.21089	0.07850131	0.22145577	
2022Vendor Vendor	0.01991806	1.889760516	0.36497107	0.01125961	0.01227567	0.01174136	1211.83967	0.04029686	0.17274956	
2022Worker Worker	0.01716262	0.063167612	0.89784164	0.00287684	0.00193578	0.00178222	290.781675	0.00413135	0.00590029	
2023Hauling Hauling	0.02438513	2.70726027	0.46544535	0.01247986	0.01859168	0.01778737	1374.48104	0.07922973	0.21840565	
2023Vendor Vendor	0.01904515	1.897817151	0.35240371	0.01108069	0.01237071	0.01183229	1193.62946	0.0405116	0.17033183	
2023Worker Worker	0.01513169	0.055897597	0.83140276	0.00279565	0.00185735	0.00170978	282.578076	0.00368669	0.00544537	
GWP	N/A	N/A	N/A	N/A	N/A	N/A	1	25	290	

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (pounds/day)						Regional Emissions (MT/year)			
					ROG	NOX	CO	SO2	PM10	PM2.5	CO2	CH4	N2O	CO2e
Demolition														
2023														
Total Haul Trips	74													
Hauling	4	21	8	20	0.00	0.48	0.08	0.00	0.00	0.00	2.31	0.00	0.11	2.42
Vendor	0	21	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	15	21	8	14.7	0.01	0.03	0.40	0.00	0.00	0.00	1.31	0.00	0.01	1.32
					0.01	0.50	0.49	0.00	0.00	0.00	3.62	0.00	0.11	3.74
Site Preparation														
2023														
Total Haul Trips	0													
Hauling	0	20	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	20	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	18	20	8	14.7	0.01	0.03	0.48	0.00	0.00	0.00	1.50	0.00	0.01	1.50
					0.01	0.03	0.48	0.00	0.00	0.00	1.50	0.00	0.01	1.50
Grading														
2023														
Total Haul Trips	148													
Hauling	7	23	8	20	0.01	0.84	0.14	0.00	0.01	0.01	4.43	0.01	0.20	4.64
Vendor	0	23	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	15	23	8	14.7	0.01	0.03	0.40	0.00	0.00	0.00	1.43	0.00	0.01	1.44
					0.01	0.86	0.55	0.01	0.01	0.01	5.86	0.01	0.21	6.08
Building Construction - Util														
2023														
Total Haul Trips	0													
Hauling	0	86	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1	86	8	6.9	0.00	0.03	0.01	0.00	0.00	0.00	0.71	0.00	0.03	0.74
Worker	73	86	8	14.7	0.04	0.13	1.97	0.01	0.00	0.00	26.08	0.01	0.15	26.23
					0.04	0.16	1.97	0.01	0.00	0.00	26.79	0.01	0.18	26.97
Paving - Bikeway Construct														
2023														
Total Haul Trips	0													
Hauling	0	88	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	2	88	8	6.9	0.00	0.06	0.01	0.00	0.00	0.00	1.45	0.00	0.06	1.51
Worker	20	88	8	14.7	0.01	0.04	0.54	0.00	0.00	0.00	7.31	0.00	0.04	7.35
					0.01	0.09	0.55	0.00	0.00	0.00	8.76	0.00	0.10	8.86
Striping														
2023														
Total Haul Trips	0													
Hauling	0	21	8	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	21	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker	15	21	8	14.7	0.01	0.03	0.40	0.00	0.00	0.00	1.31	0.00	0.01	1.32
					0.01	0.03	0.40	0.00	0.00	0.00	1.31	0.00	0.01	1.32

Road Dust, Break Wear, and Tire wear Emissions

	Emission Factors (grams/mile)					
	PM10			PM2.5		
	RD	BW	TW	RD	BW	TW
2020Hauling Hauling	3.00E-01	0.061048007	0.03558331	7.36E-02	0.02616343	0.00889583
2020Vendor Vendor	3.00E-01	0.095694022	0.02379166	7.36E-02	0.04101172	0.00594791
2020Worker Worker	3.00E-01	0.036750011	0.008	7.36E-02	0.01575	0.002
2021Hauling Hauling	3.00E-01	0.061055751	0.0355879	7.36E-02	0.02616675	0.00889698
2021Vendor Vendor	3.00E-01	0.095697894	0.02379395	7.36E-02	0.04101338	0.00594849
2021Worker Worker	3.00E-01	0.036750011	0.008	7.36E-02	0.01575	0.002
2022Hauling Hauling	3.00E-01	0.061063462	0.03559233	7.36E-02	0.02617005	0.00889808
2022Vendor Vendor	3.00E-01	0.095701749	0.02379617	7.36E-02	0.04101504	0.00594904
2022Worker Worker	3.00E-01	0.036750011	0.008	7.36E-02	0.01575	0.002
2023Hauling Hauling	3.00E-01	0.06107028	0.03559616	7.36E-02	0.02617298	0.00889904
2023Vendor Vendor	3.00E-01	0.095705158	0.02379808	7.36E-02	0.0410165	0.00594952
2023Worker Worker	3.00E-01	0.036750011	0.008	7.36E-02	0.01575	0.002

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Regional Emissions (pounds/day)					
					RD	PM10 BW	TW	RD	PM2.5 BW	TW
<u>Demolition</u>										
	2023									
Total Haul Trips	74									
Hauling	4	21	8	20	0.05	0.01	0.01	0.01	0.00	0.00
Vendor	0	21	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	15	21	8	14.7	0.15	0.02	0.00	0.04	0.01	0.00
<u>Site Preparation</u>										
	2023									
Total Haul Trips	0									
Hauling	0	20	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	20	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	18	20	8	14.7	0.17	0.02	0.00	0.04	0.01	0.00
<u>Grading</u>										
	2023									
Total Haul Trips	148									
Hauling	7	23	8	20	0.09	0.02	0.01	0.02	0.01	0.00
Vendor	0	23	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	15	23	8	14.7	0.15	0.02	0.00	0.04	0.01	0.00
<u>Building Construction - Util</u>										
	2023									
Total Haul Trips	0									
Hauling	0	86	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	1	86	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	73	86	8	14.7	0.71	0.09	0.02	0.17	0.04	0.00
<u>Paving - Bikeway Construct</u>										
	2023									
Total Haul Trips	0									
Hauling	0	88	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	2	88	8	6.9	0.01	0.00	0.00	0.00	0.00	0.00
Worker	20	88	8	14.7	0.19	0.02	0.01	0.05	0.01	0.00
<u>Striping</u>										
	2023									
Total Haul Trips	0									
Hauling	0	21	8	20	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	0	21	8	6.9	0.00	0.00	0.00	0.00	0.00	0.00
Worker	15	21	8	14.7	0.15	0.02	0.00	0.04	0.01	0.00

Peter's Canyon Bikeway Extention Project - South Coast Air Basin, Summer

Peter's Canyon Bikeway Extention Project
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.00	Acre	4.00	174,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Project Schedule
- Trips and VMT - Project details
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	86.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	23.00
tblConstructionPhase	NumDays	18.00	88.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	MaterialExported	0.00	1,500.00
tblTripsAndVMT	VendorTripNumber	0.00	125.00

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					
2023	2.7259	27.5643	20.3065	0.0513	18.2675	1.2674	19.5349	9.9840	1.1660	11.1501	0.0000	5,261.3882	5,261.3882	1.1969	0.0000	5,280.1578
Maximum	2.7259	27.5643	20.3065	0.0513	18.2675	1.2674	19.5349	9.9840	1.1660	11.1501	0.0000	5,261.3882	5,261.3882	1.1969	0.0000	5,280.1578

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					

2023	2.7259	27.5643	20.3065	0.0513	7.2470	1.2674	8.5145	3.9263	1.1660	5.0924	0.0000	5,261.388 2	5,261.388 2	1.1969	0.0000	5,280.157 8
Maximum	2.7259	27.5643	20.3065	0.0513	7.2470	1.2674	8.5145	3.9263	1.1660	5.0924	0.0000	5,261.388 2	5,261.388 2	1.1969	0.0000	5,280.157 8

	ROG	NOx	CO	SO2	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	60.33	0.00	56.41	60.67	0.00	54.33	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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	0.0750	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004

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	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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	0.0750	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/30/2023	5	21	
2	Site Preparation	Site Preparation	2/1/2023	2/28/2023	5	20	
3	Grading	Grading	3/1/2023	3/31/2023	5	23	
4	Building Construction - Utility & Sidewalk	Building Construction	4/1/2023	7/31/2023	5	86	
5	Paving - Bikeway Construction	Paving	8/1/2023	11/30/2023	5	88	
6	Striping	Architectural Coating	12/1/2023	12/31/2023	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 11.5

Acres of Paving: 4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,454

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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Utility & Sidewalk	Cranes	1	7.00	231	0.29
Building Construction - Utility & Sidewalk	Forklifts	3	8.00	89	0.20
Building Construction - Utility & Sidewalk	Generator Sets	1	8.00	84	0.74
Building Construction - Utility & Sidewalk	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Utility & Sidewalk	Welders	1	8.00	46	0.45
Paving - Bikeway Construction	Cement and Mortar Mixers	2	6.00	9	0.56
Paving - Bikeway Construction	Pavers	1	8.00	130	0.42
Paving - Bikeway Construction	Paving Equipment	2	6.00	132	0.36
Paving - Bikeway Construction	Rollers	2	6.00	80	0.38
Paving - Bikeway Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Striping	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	0.00	74.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	148.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Utility & Sidewalk	9	73.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Bikeway Construction	8	20.00	125.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023

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					0.7643	0.0000	0.7643	0.1157	0.0000	0.1157			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.7643	0.9975	1.7618	0.1157	0.9280	1.0437		3,746.9840	3,746.9840	1.0494		3,773.2183

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	0.0167	0.5453	0.1822	2.5500e-003	0.0616	1.0100e-003	0.0626	0.0169	9.7000e-004	0.0178		278.2296	278.2296	0.0189		278.7026
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	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177
Total	0.0721	0.5787	0.6632	4.1000e-003	0.2292	2.1800e-003	0.2314	0.0613	2.0500e-003	0.0634		432.3561	432.3561	0.0226		432.9204

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					0.2981	0.0000	0.2981	0.0451	0.0000	0.0451			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.2981	0.9975	1.2956	0.0451	0.9280	0.9731	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	0.0167	0.5453	0.1822	2.5500e-003	0.0616	1.0100e-003	0.0626	0.0169	9.7000e-004	0.0178		278.2296	278.2296	0.0189		278.7026
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	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177
Total	0.0721	0.5787	0.6632	4.1000e-003	0.2292	2.1800e-003	0.2314	0.0613	2.0500e-003	0.0634		432.3561	432.3561	0.0226		432.9204

3.3 Site Preparation - 2023

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	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	18.0663	1.2660	19.3323	9.9307	1.1647	11.0954		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0665	0.0402	0.5772	1.8600e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		184.9518	184.9518	4.3800e-003		185.0613
Total	0.0665	0.0402	0.5772	1.8600e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		184.9518	184.9518	4.3800e-003		185.0613

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000

Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	7.0458	1.2660	8.3119	3.8730	1.1647	5.0377	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0665	0.0402	0.5772	1.8600e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		184.9518	184.9518	4.3800e-003		185.0613
Total	0.0665	0.0402	0.5772	1.8600e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		184.9518	184.9518	4.3800e-003		185.0613

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.691 0	2,872.691 0	0.9291		2,895.918 2
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804		2,872.691 0	2,872.691 0	0.9291		2,895.918 2

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	0.0305	0.9957	0.3327	4.6600e-003	0.1124	1.8500e-003	0.1142	0.0308	1.7700e-003	0.0326		508.0714	508.0714	0.0346		508.9352
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	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177
Total	0.0859	1.0292	0.8137	6.2100e-003	0.2801	3.0200e-003	0.2831	0.0753	2.8500e-003	0.0781		662.1979	662.1979	0.0382		663.1530

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	2.5554	0.7749	3.3303	1.3133	0.7129	2.0263	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

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	0.0305	0.9957	0.3327	4.6600e-003	0.1124	1.8500e-003	0.1142	0.0308	1.7700e-003	0.0326		508.0714	508.0714	0.0346		508.9352
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	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177
Total	0.0859	1.0292	0.8137	6.2100e-003	0.2801	3.0200e-003	0.2831	0.0753	2.8500e-003	0.0781		662.1979	662.1979	0.0382		663.1530

3.5 Building Construction - Utility & Sidewalk - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0568	1.9887	0.5764	7.0300e-003	0.1856	2.2800e-003	0.1878	0.0534	2.1800e-003	0.0556		754.1058	754.1058	0.0415		755.1419
Worker	0.2695	0.1629	2.3407	7.5200e-003	0.8160	5.7100e-003	0.8217	0.2164	5.2600e-003	0.2217		750.0823	750.0823	0.0178		750.5263
Total	0.3263	2.1516	2.9170	0.0146	1.0015	7.9900e-003	1.0095	0.2698	7.4400e-003	0.2773		1,504.1880	1,504.1880	0.0592		1,505.6681

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0568	1.9887	0.5764	7.0300e-003	0.1856	2.2800e-003	0.1878	0.0534	2.1800e-003	0.0556		754.1058	754.1058	0.0415		755.1419
Worker	0.2695	0.1629	2.3407	7.5200e-003	0.8160	5.7100e-003	0.8217	0.2164	5.2600e-003	0.2217		750.0823	750.0823	0.0178		750.5263
Total	0.3263	2.1516	2.9170	0.0146	1.0015	7.9900e-003	1.0095	0.2698	7.4400e-003	0.2773		1,504.1880	1,504.1880	0.0592		1,505.6681

3.6 Paving - Bikeway Construction - 2023

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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0372	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

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	0.2448	8.5719	2.4843	0.0303	0.7998	9.8200e-003	0.8097	0.2303	9.3800e-003	0.2396		3,250.4558	3,250.4558	0.1786		3,254.9219
Worker	0.0738	0.0446	0.6413	2.0600e-003	0.2236	1.5700e-003	0.2251	0.0593	1.4400e-003	0.0607		205.5020	205.5020	4.8700e-003		205.6236
Total	0.3186	8.6165	3.1256	0.0324	1.0234	0.0114	1.0348	0.2895	0.0108	0.3004		3,455.9578	3,455.9578	0.1835		3,460.5456

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0372	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

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	0.2448	8.5719	2.4843	0.0303	0.7998	9.8200e-003	0.8097	0.2303	9.3800e-003	0.2396		3,250.4558	3,250.4558	0.1786		3,254.9219
Worker	0.0738	0.0446	0.6413	2.0600e-003	0.2236	1.5700e-003	0.2251	0.0593	1.4400e-003	0.0607		205.5020	205.5020	4.8700e-003		205.6236
Total	0.3186	8.6165	3.1256	0.0324	1.0234	0.0114	1.0348	0.2895	0.0108	0.3004		3,455.9578	3,455.9578	0.1835		3,460.5456

3.7 Striping - 2023

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	2.3074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	2.4990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177
Total	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177

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	2.3074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	2.4990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177
Total	0.0554	0.0335	0.4810	1.5500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		154.1265	154.1265	3.6500e-003		154.2177

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	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	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Unmitigated

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

	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	lb/day										lb/day					
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
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	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Total	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Total	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

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

Peter's Canyon Bikeway Extention Project - South Coast Air Basin, Winter

Peter's Canyon Bikeway Extention Project
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.00	Acre	4.00	174,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Project Schedule
- Trips and VMT - Project details
- Demolition -
- Grading -
- Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	86.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	23.00
tblConstructionPhase	NumDays	18.00	88.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	MaterialExported	0.00	1,500.00
tblTripsAndVMT	VendorTripNumber	0.00	125.00

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					
2023	2.7331	27.5683	20.2677	0.0504	18.2675	1.2674	19.5349	9.9840	1.1660	11.1501	0.0000	5,161.0454	5,161.0454	1.1966	0.0000	5,180.0781
Maximum	2.7331	27.5683	20.2677	0.0504	18.2675	1.2674	19.5349	9.9840	1.1660	11.1501	0.0000	5,161.0454	5,161.0454	1.1966	0.0000	5,180.0781

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					

2023	2.7331	27.5683	20.2677	0.0504	7.2470	1.2674	8.5145	3.9263	1.1660	5.0924	0.0000	5,161.045 4	5,161.045 4	1.1966	0.0000	5,180.078 1
Maximum	2.7331	27.5683	20.2677	0.0504	7.2470	1.2674	8.5145	3.9263	1.1660	5.0924	0.0000	5,161.045 4	5,161.045 4	1.1966	0.0000	5,180.078 1

	ROG	NOx	CO	SO2	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	60.33	0.00	56.41	60.67	0.00	54.33	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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	0.0750	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004

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	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	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	0.0750	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000	0.0000	9.3000e-004

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/30/2023	5	21	
2	Site Preparation	Site Preparation	2/1/2023	2/28/2023	5	20	
3	Grading	Grading	3/1/2023	3/31/2023	5	23	
4	Building Construction - Utility & Sidewalk	Building Construction	4/1/2023	7/31/2023	5	86	
5	Paving - Bikeway Construction	Paving	8/1/2023	11/30/2023	5	88	
6	Striping	Architectural Coating	12/1/2023	12/31/2023	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 11.5

Acres of Paving: 4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,454

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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Utility & Sidewalk	Cranes	1	7.00	231	0.29
Building Construction - Utility & Sidewalk	Forklifts	3	8.00	89	0.20
Building Construction - Utility & Sidewalk	Generator Sets	1	8.00	84	0.74
Building Construction - Utility & Sidewalk	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Utility & Sidewalk	Welders	1	8.00	46	0.45
Paving - Bikeway Construction	Cement and Mortar Mixers	2	6.00	9	0.56
Paving - Bikeway Construction	Pavers	1	8.00	130	0.42
Paving - Bikeway Construction	Paving Equipment	2	6.00	132	0.36
Paving - Bikeway Construction	Rollers	2	6.00	80	0.38
Paving - Bikeway Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Striping	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	0.00	74.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	148.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Utility & Sidewalk	9	73.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Bikeway Construction	8	20.00	125.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Striping	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023

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					0.7643	0.0000	0.7643	0.1157	0.0000	0.1157			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280		3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.7643	0.9975	1.7618	0.1157	0.9280	1.0437		3,746.9840	3,746.9840	1.0494		3,773.2183

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	0.0172	0.5485	0.1906	2.5100e-003	0.0616	1.0400e-003	0.0626	0.0169	9.9000e-004	0.0179		273.4435	273.4435	0.0195		273.9310
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	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391
Total	0.0785	0.5852	0.6244	3.9600e-003	0.2292	2.2100e-003	0.2314	0.0613	2.0700e-003	0.0634		417.9974	417.9974	0.0229		418.5701

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					0.2981	0.0000	0.2981	0.0451	0.0000	0.0451			0.0000			0.0000
Off-Road	2.2691	21.4844	19.6434	0.0388		0.9975	0.9975		0.9280	0.9280	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183
Total	2.2691	21.4844	19.6434	0.0388	0.2981	0.9975	1.2956	0.0451	0.9280	0.9731	0.0000	3,746.9840	3,746.9840	1.0494		3,773.2183

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	0.0172	0.5485	0.1906	2.5100e-003	0.0616	1.0400e-003	0.0626	0.0169	9.9000e-004	0.0179		273.4435	273.4435	0.0195		273.9310
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	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391
Total	0.0785	0.5852	0.6244	3.9600e-003	0.2292	2.2100e-003	0.2314	0.0613	2.0700e-003	0.0634		417.9974	417.9974	0.0229		418.5701

3.3 Site Preparation - 2023

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	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.3081	3,687.3081	1.1926		3,717.1219
Total	2.6595	27.5242	18.2443	0.0381	18.0663	1.2660	19.3323	9.9307	1.1647	11.0954		3,687.3081	3,687.3081	1.1926		3,717.1219

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	0.0736	0.0441	0.5205	1.7400e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		173.4647	173.4647	4.0900e-003		173.5669
Total	0.0736	0.0441	0.5205	1.7400e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		173.4647	173.4647	4.0900e-003		173.5669

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					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000

Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	7.0458	1.2660	8.3119	3.8730	1.1647	5.0377	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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	0.0736	0.0441	0.5205	1.7400e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		173.4647	173.4647	4.0900e-003		173.5669
Total	0.0736	0.0441	0.5205	1.7400e-003	0.2012	1.4100e-003	0.2026	0.0534	1.3000e-003	0.0547		173.4647	173.4647	4.0900e-003		173.5669

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.691 0	2,872.691 0	0.9291		2,895.918 2
Total	1.7109	17.9359	14.7507	0.0297	6.5523	0.7749	7.3273	3.3675	0.7129	4.0804		2,872.691 0	2,872.691 0	0.9291		2,895.918 2

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	0.0313	1.0016	0.3481	4.5800e-003	0.1124	1.9000e-003	0.1143	0.0308	1.8200e-003	0.0326		499.3316	499.3316	0.0356		500.2218
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	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391
Total	0.0927	1.0383	0.7818	6.0300e-003	0.2801	3.0700e-003	0.2831	0.0753	2.9000e-003	0.0782		643.8855	643.8855	0.0390		644.8609

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	2.5554	0.7749	3.3303	1.3133	0.7129	2.0263	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

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	0.0313	1.0016	0.3481	4.5800e-003	0.1124	1.9000e-003	0.1143	0.0308	1.8200e-003	0.0326		499.3316	499.3316	0.0356		500.2218
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	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391
Total	0.0927	1.0383	0.7818	6.0300e-003	0.2801	3.0700e-003	0.2831	0.0753	2.9000e-003	0.0782		643.8855	643.8855	0.0390		644.8609

3.5 Building Construction - Utility & Sidewalk - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0597	1.9780	0.6296	6.8400e-003	0.1856	2.3900e-003	0.1880	0.0534	2.2900e-003	0.0557		733.7873	733.7873	0.0440		734.8864
Worker	0.2986	0.1788	2.1110	7.0600e-003	0.8160	5.7100e-003	0.8217	0.2164	5.2600e-003	0.2217		703.4956	703.4956	0.0166		703.9103
Total	0.3584	2.1567	2.7406	0.0139	1.0015	8.1000e-003	1.0096	0.2698	7.5500e-003	0.2774		1,437.2829	1,437.2829	0.0606		1,438.7967

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.0597	1.9780	0.6296	6.8400e-003	0.1856	2.3900e-003	0.1880	0.0534	2.2900e-003	0.0557		733.7873	733.7873	0.0440		734.8864
Worker	0.2986	0.1788	2.1110	7.0600e-003	0.8160	5.7100e-003	0.8217	0.2164	5.2600e-003	0.2217		703.4956	703.4956	0.0166		703.9103
Total	0.3584	2.1567	2.7406	0.0139	1.0015	8.1000e-003	1.0096	0.2698	7.5500e-003	0.2774		1,437.2829	1,437.2829	0.0606		1,438.7967

3.6 Paving - Bikeway Construction - 2023

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	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0372	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025		1,805.4304	1,805.4304	0.5673		1,819.6122

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	0.2575	8.5257	2.7139	0.0295	0.7998	0.0103	0.8102	0.2303	9.8600e-003	0.2401		3,162.8764	3,162.8764	0.1895		3,167.6137
Worker	0.0818	0.0490	0.5784	1.9300e-003	0.2236	1.5700e-003	0.2251	0.0593	1.4400e-003	0.0607		192.7385	192.7385	4.5400e-003		192.8521
Total	0.3393	8.5746	3.2923	0.0314	1.0234	0.0119	1.0353	0.2895	0.0113	0.3009		3,355.6150	3,355.6150	0.1940		3,360.4659

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9181	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122
Paving	0.1191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0372	8.7903	12.1905	0.0189		0.4357	0.4357		0.4025	0.4025	0.0000	1,805.4304	1,805.4304	0.5673		1,819.6122

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	0.2575	8.5257	2.7139	0.0295	0.7998	0.0103	0.8102	0.2303	9.8600e-003	0.2401		3,162.8764	3,162.8764	0.1895		3,167.6137
Worker	0.0818	0.0490	0.5784	1.9300e-003	0.2236	1.5700e-003	0.2251	0.0593	1.4400e-003	0.0607		192.7385	192.7385	4.5400e-003		192.8521
Total	0.3393	8.5746	3.2923	0.0314	1.0234	0.0119	1.0353	0.2895	0.0113	0.3009		3,355.6150	3,355.6150	0.1940		3,360.4659

3.7 Striping - 2023

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	2.3074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	2.4990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391
Total	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391

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	2.3074					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	2.4990	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391
Total	0.0614	0.0367	0.4338	1.4500e-003	0.1677	1.1700e-003	0.1688	0.0445	1.0800e-003	0.0456		144.5539	144.5539	3.4100e-003		144.6391

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	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	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

Unmitigated

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

	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	lb/day										lb/day					
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
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	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Total	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0133					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Total	0.0750	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

Peter's Canyon Bikeway Extention Project - South Coast Air Basin, Annual

Peter's Canyon Bikeway Extention Project
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.00	Acre	4.00	174,240.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Project Schedule

Trips and VMT - Project details

Demolition -

Grading -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	86.00
tblConstructionPhase	NumDays	20.00	21.00
tblConstructionPhase	NumDays	8.00	23.00
tblConstructionPhase	NumDays	18.00	88.00
tblConstructionPhase	NumDays	5.00	20.00
tblGrading	MaterialExported	0.00	1,500.00
tblTripsAndVMT	VendorTripNumber	0.00	125.00

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					
2023	0.2409	2.2227	2.0981	5.3100e-003	0.3599	0.0830	0.4429	0.1657	0.0772	0.2429	0.0000	480.4065	480.4065	0.0875	0.0000	482.5949
Maximum	0.2409	2.2227	2.0981	5.3100e-003	0.3599	0.0830	0.4429	0.1657	0.0772	0.2429	0.0000	480.4065	480.4065	0.0875	0.0000	482.5949

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					

2023	0.2409	2.2227	2.0981	5.3100e-003	0.1988	0.0830	0.2818	0.0808	0.0772	0.1580	0.0000	480.4062	480.4062	0.0875	0.0000	482.5946
Maximum	0.2409	2.2227	2.0981	5.3100e-003	0.1988	0.0830	0.2818	0.0808	0.0772	0.1580	0.0000	480.4062	480.4062	0.0875	0.0000	482.5946

	ROG	NOx	CO	SO2	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	44.75	0.00	36.37	51.26	0.00	34.96	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)
1	1-1-2023	3-31-2023	0.7947	0.7947
2	4-1-2023	6-30-2023	0.5992	0.5992
3	7-1-2023	9-30-2023	0.6129	0.6129
		Highest	0.7947	0.7947

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	0.0137	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0137	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

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	0.0137	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0137	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	1/30/2023	5	21	
2	Site Preparation	Site Preparation	2/1/2023	2/28/2023	5	20	
3	Grading	Grading	3/1/2023	3/31/2023	5	23	
4	Building Construction - Utility & Sidewalk	Building Construction	4/1/2023	7/31/2023	5	86	
5	Paving - Bikeway Construction	Paving	8/1/2023	11/30/2023	5	88	
6	Striping	Architectural Coating	12/1/2023	12/31/2023	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 11.5

Acres of Paving: 4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 10,454

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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction - Utility & Sidewalk	Cranes	1	7.00	231	0.29
Building Construction - Utility & Sidewalk	Forklifts	3	8.00	89	0.20
Building Construction - Utility & Sidewalk	Generator Sets	1	8.00	84	0.74
Building Construction - Utility & Sidewalk	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction - Utility & Sidewalk	Welders	1	8.00	46	0.45
Paving - Bikeway Construction	Cement and Mortar Mixers	2	6.00	9	0.56
Paving - Bikeway Construction	Pavers	1	8.00	130	0.42
Paving - Bikeway Construction	Paving Equipment	2	6.00	132	0.36
Paving - Bikeway Construction	Rollers	2	6.00	80	0.38
Paving - Bikeway Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Striping	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	0.00	74.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	148.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction - Utility & Sidewalk	9	73.00	29.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving - Bikeway	8	20.00	125.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Construction Striping	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2023

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					8.0200e-003	0.0000	8.0200e-003	1.2200e-003	0.0000	1.2200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0238	0.2256	0.2063	4.1000e-004		0.0105	0.0105		9.7400e-003	9.7400e-003	0.0000	35.6917	35.6917	0.0100	0.0000	35.9416
Total	0.0238	0.2256	0.2063	4.1000e-004	8.0200e-003	0.0105	0.0185	1.2200e-003	9.7400e-003	0.0110	0.0000	35.6917	35.6917	0.0100	0.0000	35.9416

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	1.8000e-004	5.8600e-003	1.9500e-003	3.0000e-005	6.4000e-004	1.0000e-005	6.5000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	2.6311	2.6311	1.8000e-004	0.0000	2.6357
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.0000e-004	4.6800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3986	1.3986	3.0000e-005	0.0000	1.3995
Total	7.6000e-004	6.2600e-003	6.6300e-003	5.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	4.0297	4.0297	2.1000e-004	0.0000	4.0351

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					3.1300e-003	0.0000	3.1300e-003	4.7000e-004	0.0000	4.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0238	0.2256	0.2063	4.1000e-004		0.0105	0.0105		9.7400e-003	9.7400e-003	0.0000	35.6916	35.6916	0.0100	0.0000	35.9415
Total	0.0238	0.2256	0.2063	4.1000e-004	3.1300e-003	0.0105	0.0136	4.7000e-004	9.7400e-003	0.0102	0.0000	35.6916	35.6916	0.0100	0.0000	35.9415

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	1.8000e-004	5.8600e-003	1.9500e-003	3.0000e-005	6.4000e-004	1.0000e-005	6.5000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	2.6311	2.6311	1.8000e-004	0.0000	2.6357

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.0000e-004	4.6800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3986	1.3986	3.0000e-005	0.0000	1.3995
Total	7.6000e-004	6.2600e-003	6.6300e-003	5.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	4.0297	4.0297	2.1000e-004	0.0000	4.0351

3.3 Site Preparation - 2023

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212
Total	0.0266	0.2752	0.1824	3.8000e-004	0.1807	0.0127	0.1933	0.0993	0.0117	0.1110	0.0000	33.4507	33.4507	0.0108	0.0000	33.7212

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	6.6000e-004	4.5000e-004	5.3500e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.5984	1.5984	4.0000e-005	0.0000	1.5994
Total	6.6000e-004	4.5000e-004	5.3500e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.5984	1.5984	4.0000e-005	0.0000	1.5994

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					0.0705	0.0000	0.0705	0.0387	0.0000	0.0387	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2752	0.1824	3.8000e-004		0.0127	0.0127		0.0117	0.0117	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211
Total	0.0266	0.2752	0.1824	3.8000e-004	0.0705	0.0127	0.0831	0.0387	0.0117	0.0504	0.0000	33.4507	33.4507	0.0108	0.0000	33.7211

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	6.6000e-004	4.5000e-004	5.3500e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.5984	1.5984	4.0000e-005	0.0000	1.5994
Total	6.6000e-004	4.5000e-004	5.3500e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.5984	1.5984	4.0000e-005	0.0000	1.5994

3.4 Grading - 2023

Unmitigated Construction On-Site

Off-Road	0.0197	0.2063	0.1696	3.4000e-004		8.9100e-003	8.9100e-003		8.2000e-003	8.2000e-003	0.0000	29.9697	29.9697	9.6900e-003	0.0000	30.2120
Total	0.0197	0.2063	0.1696	3.4000e-004	0.0294	8.9100e-003	0.0383	0.0151	8.2000e-003	0.0233	0.0000	29.9697	29.9697	9.6900e-003	0.0000	30.2120

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.5000e-004	0.0117	3.9100e-003	5.0000e-005	1.2700e-003	2.0000e-005	1.2900e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	5.2622	5.2622	3.7000e-004	0.0000	5.2714
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	6.3000e-004	4.3000e-004	5.1300e-003	2.0000e-005	1.8900e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.5318	1.5318	4.0000e-005	0.0000	1.5327
Total	9.8000e-004	0.0122	9.0400e-003	7.0000e-005	3.1600e-003	3.0000e-005	3.2000e-003	8.5000e-004	3.0000e-005	8.9000e-004	0.0000	6.7941	6.7941	4.1000e-004	0.0000	6.8041

3.5 Building Construction - Utility & Sidewalk - 2023

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	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6760	99.6760	0.0237	0.0000	100.2688

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-003	0.0864	0.0260	3.0000e-004	7.8600e-003	1.0000e-004	7.9600e-003	2.2700e-003	1.0000e-004	2.3600e-003	0.0000	29.0840	29.0840	1.6600e-003	0.0000	29.1255
Worker	0.0115	7.9100e-003	0.0933	3.1000e-004	0.0344	2.5000e-004	0.0347	9.1500e-003	2.3000e-004	9.3700e-003	0.0000	27.8749	27.8749	6.6000e-004	0.0000	27.8913
Total	0.0140	0.0943	0.1193	6.1000e-004	0.0423	3.5000e-004	0.0426	0.0114	3.3000e-004	0.0117	0.0000	56.9589	56.9589	2.3200e-003	0.0000	57.0168

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	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687
Total	0.0676	0.6186	0.6985	1.1600e-003		0.0301	0.0301		0.0283	0.0283	0.0000	99.6759	99.6759	0.0237	0.0000	100.2687

Mitigated Construction Off-Site

Vendor	0.0110	0.3809	0.1147	1.3200e-003	0.0347	4.4000e-004	0.0351	0.0100	4.2000e-004	0.0104	0.0000	128.2774	128.2774	7.3200e-003	0.0000	128.4605
Worker	3.2300e-003	2.2200e-003	0.0262	9.0000e-005	9.6500e-003	7.0000e-005	9.7200e-003	2.5600e-003	6.0000e-005	2.6300e-003	0.0000	7.8146	7.8146	1.8000e-004	0.0000	7.8192
Total	0.0142	0.3831	0.1409	1.4100e-003	0.0443	5.1000e-004	0.0448	0.0126	4.8000e-004	0.0131	0.0000	136.0920	136.0920	7.5000e-003	0.0000	136.2797

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	0.0404	0.3868	0.5364	8.3000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	72.0657	72.0657	0.0226	0.0000	72.6318
Paving	5.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0456	0.3868	0.5364	8.3000e-004		0.0192	0.0192		0.0177	0.0177	0.0000	72.0657	72.0657	0.0226	0.0000	72.6318

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	0.0110	0.3809	0.1147	1.3200e-003	0.0347	4.4000e-004	0.0351	0.0100	4.2000e-004	0.0104	0.0000	128.2774	128.2774	7.3200e-003	0.0000	128.4605
Worker	3.2300e-003	2.2200e-003	0.0262	9.0000e-005	9.6500e-003	7.0000e-005	9.7200e-003	2.5600e-003	6.0000e-005	2.6300e-003	0.0000	7.8146	7.8146	1.8000e-004	0.0000	7.8192
Total	0.0142	0.3831	0.1409	1.4100e-003	0.0443	5.1000e-004	0.0448	0.0126	4.8000e-004	0.0131	0.0000	136.0920	136.0920	7.5000e-003	0.0000	136.2797

3.7 Striping - 2023

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	0.0242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.0262	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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	5.8000e-004	4.0000e-004	4.6800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3986	1.3986	3.0000e-005	0.0000	1.3995
Total	5.8000e-004	4.0000e-004	4.6800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3986	1.3986	3.0000e-005	0.0000	1.3995

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	0.0242					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.0262	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.0000e-004	4.6800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3986	1.3986	3.0000e-005	0.0000	1.3995
Total	5.8000e-004	4.0000e-004	4.6800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3986	1.3986	3.0000e-005	0.0000	1.3995

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	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	0.553363	0.042540	0.203692	0.115607	0.014606	0.005830	0.021800	0.032323	0.002120	0.001725	0.004837	0.000711	0.000846

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

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

Mitigated

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0137	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	0.0137	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

Total	0.0137	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
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Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.4200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004
Total	0.0137	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-004	1.0000e-004	0.0000	0.0000	1.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
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Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Unmitigated Fuel Conversion - Construction

	Total CO ₂ MT/yr	Fuel Type	Factor KGCO ₂ /gal	Gallons
<i>source:</i>		CalEEMod		
Demolition	35.94	diesel	10.21	3,520
Site Preparation	33.72	diesel	10.21	3,303
Grading	30.21	diesel	10.21	2,959
ng Construction - Utility and Sidewalk	100.27	diesel	10.21	9,821
Paving - Bikeway Construction	72.63	diesel	10.21	7,114
Striping	2.68	diesel	10.21	263
Total Off-Road Diesel				26,979

Onroad		<i>source:</i> EMFAC2017		
	Hauling	Vendor	Worker	
Demolition	237	-	160	
Site Preparation	-	-	182	
Grading	454	-	175	
ng Construction - Utility and Sidewalk	-	68	3,180	
Paving - Bikeway Construction	-	140	891	
Striping	-	-	160	
	691	208	4,748	
Total On-Road Diesel		900		
Total On-Road Gasoline		4,748		

Total On-Road Fuel Consumption

		gal/mile	gal/min
2020Hauling	Hauling	0.15613658	1.50968E-05
2020Vendor	Vendor	0.12720883	9.12128E-06
2020Worker	Worker	0.03742093	2.06198E-06
2021Hauling	Hauling	0.15194685	1.49226E-05
2021Vendor	Vendor	0.12346263	8.98135E-06
2021Worker	Worker	0.03636982	2.00421E-06
2022Hauling	Hauling	0.14312318	1.42709E-05
2022Vendor	Vendor	0.11698571	8.58941E-06
2022Worker	Worker	0.03532451	1.94677E-06
2023Hauling	Hauling	0.14107785	1.41309E-05
2023Vendor	Vendor	0.11532828	8.40578E-06
2023Worker	Worker	0.03445725	1.96264E-06

Construction Phase	Daily One-Way Trips	Haul Days per Phase (days)	Work Hours per Day (hours/day)	One-Way Trip Distance per Day (miles)	Idling per Day (minutes)	Regional Emissions (gallons)				
						gal/mile	gal/min	gal/day	Total Gallons/yr	
Demolition										
	2023									
Total Haul Trips	74									
Hauling	4	21	8	20	15	0.14	1.41E-05	11		237
Vendor	0	21	8	6.9	15	0.12	8.41E-06	0		0
Worker	15	21	8	14.7	0	0.03	1.96E-06	8		160
Site Preparation										
	2023									
Total Haul Trips	0									
Hauling	0	20	8	20	15	0.14	1.41E-05	0		0
Vendor	0	20	8	6.9	15	0.12	8.41E-06	0		0
Worker	18	20	8	14.7	0	0.03	1.96E-06	9		182
Grading										
	2023									
Total Haul Trips	148									
Hauling	7	23	8	20	15	0.14	1.41E-05	20		454
Vendor	0	23	8	6.9	15	0.12	8.41E-06	0		0
Worker	15	23	8	14.7	0	0.03	1.96E-06	8		175
Building Construction - Utility & S										
	2023									
Total Haul Trips	0									
Hauling	0	86	8	20	15	0.14	1.41E-05	0		0
Vendor	1	86	8	6.9	15	0.12	8.41E-06	1		68
Worker	73	86	8	14.7	0	0.03	1.96E-06	37		3,180
Paving - Bikeway Construction										
	2023									
Total Haul Trips	0									
Hauling	0	88	8	20	15	0.14	1.41E-05	0		0
Vendor	2	88	8	6.9	15	0.12	8.41E-06	2		140
Worker	20	88	8	14.7	0	0.03	1.96E-06	10		891
Striping										
	2023									
Total Haul Trips	0									
Hauling	0	21	8	20	15	0.14	1.41E-05	0		0
Vendor	0	21	8	6.9	15	0.12	8.41E-06	0		0
Worker	15	21	8	14.7	0	0.03	1.96E-06	8		160

Construction Energy Analysis
Construction Water Energy Estimates

Source	Acres	Construction Water Use per Day (Mgal)	Days of Water Use	Total Construction Water Use (Mgal)	Total Electricity Demand from Water Demand (MWh)
Project Site	4	0.012	43	0.516	6.7
CalEEMod Water Electricity Factors		Electricity Intensity Factor To Supply (kWh/Mgal)	Electricity Intensity Factor To Treat (kWh/Mgal)	Electricity Intensity Factor To Distribute (kWh/Mgal)	Electricity Intensity Factor For Wastewater Treatment (kWh/Mgal)
		9727	111	1272	1911

Sources and Assumptions:

-Electricity Intensity Factors - California Emissions Estimator Model (CalEEMod).

-Estimated construction water use assumed to be generally equivalent to landscape irrigation, based on a factor of 20.94 gallons per year per square foot of landscaped area within the Los Angeles area (Mediterranean climate), which assumes high water demand landscaping materials and an irrigation system efficiency of 85%. Factor is therefore $(20.94 \text{ GAL/SF/year}) \times (43,560 \text{ SF/acre}) / (365 \text{ days/year}) / (0.85) = 2,940 \text{ gallons/acre/day}$, rounded up to 3,000 gallons/acre/day.

(U.S. Department of Energy, Energy Efficiency & Renewable Energy, Federal Energy Management Program. "Guidelines for Estimating Unmetered Landscaping Water Use." July 2010. Page 12, Table 4 - Annual Irrigation Factor – Landscaped Areas with High Water Requirements).