

APPENDIX A: Air Quality/Greenhouse Gas/Energy Data

Santa Ana River Trail Phase 6 - Riverside-South Coast County, Annual

**Santa Ana River Trail Phase 6
Riverside-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.88	Acre	2.88	125,452.80	0
Other Non-Asphalt Surfaces	2.47	Acre	2.47	107,593.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			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 - Class I Multi-use path = 2.88 acres (1.7 miles [8,976ft] long x 14 ft wide)

Natural Surface Trail = 2.47 acres (1.7 miles [8,976ft] x 10ft wide)

Construction Phase - anticipated construction schedule with work beginning in December 2022 and completed by June 2024.

Off-road Equipment - Anticipated Construction Equipment

Off-road Equipment - Anticipated construction equipment

Off-road Equipment - Anticipated Construction Equipment

Grading -

Construction Off-road Equipment Mitigation - SCAQMD Rule 402 & 403

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	20.00	120.00
tblGrading	MaterialImported	0.00	60,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0408	0.6315	0.3586	1.6500e-003	0.1090	0.0172	0.1262	0.0206	0.0158	0.0364	0.0000	153.2601	153.2601	0.0231	0.0000	153.8375
2023	0.4928	4.6536	4.5928	0.0129	0.2617	0.1817	0.4434	0.0622	0.1688	0.2310	0.0000	1,151.4279	1,151.4279	0.2509	0.0000	1,157.7013
2024	0.0928	0.8243	1.1443	2.2300e-003	0.0171	0.0379	0.0550	4.5700e-003	0.0349	0.0395	0.0000	196.4002	196.4002	0.0582	0.0000	197.8553
Maximum	0.4928	4.6536	4.5928	0.0129	0.2617	0.1817	0.4434	0.0622	0.1688	0.2310	0.0000	1,151.4279	1,151.4279	0.2509	0.0000	1,157.7013

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					
2022	0.0408	0.6315	0.3586	1.6500e-003	0.0776	0.0172	0.0948	0.0171	0.0158	0.0329	0.0000	153.2601	153.2601	0.0231	0.0000	153.8375
2023	0.4928	4.6536	4.5928	0.0129	0.2303	0.1817	0.4120	0.0587	0.1688	0.2275	0.0000	1,151.4270	1,151.4270	0.2509	0.0000	1,157.7004
2024	0.0928	0.8243	1.1443	2.2300e-003	0.0171	0.0379	0.0550	4.5700e-003	0.0349	0.0395	0.0000	196.4000	196.4000	0.0582	0.0000	197.8551
Maximum	0.4928	4.6536	4.5928	0.0129	0.2303	0.1817	0.4120	0.0587	0.1688	0.2275	0.0000	1,151.4270	1,151.4270	0.2509	0.0000	1,157.7004

	ROG	NOx	CO	SO2	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	16.20	0.00	10.06	8.00	0.00	2.28	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	12-1-2022	2-28-2023	1.6694	1.6694
2	3-1-2023	5-31-2023	1.2505	1.2505
3	6-1-2023	8-31-2023	1.2508	1.2508
4	9-1-2023	11-30-2023	1.2366	1.2366
5	12-1-2023	2-29-2024	0.7831	0.7831
6	3-1-2024	5-31-2024	0.4247	0.4247
7	6-1-2024	8-31-2024	0.1154	0.1154
		Highest	1.6694	1.6694

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	0.0183	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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	0.0183	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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	0.0183	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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	0.0183	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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	Grading	Grading	12/1/2022	2/22/2023	5	60	
2	Building Construction	Building Construction	2/23/2023	1/10/2024	5	230	
3	Paving	Paving	1/10/2024	6/25/2024	5	120	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 5.35

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	3	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Off-Highway Tractors	1	8.00	124	0.44
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37

Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30

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
Grading	10	25.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	98.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2022

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					0.0515	0.0000	0.0515	5.7300e-003	0.0000	5.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3530	0.3098	6.1000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	53.3824	53.3824	0.0173	0.0000	53.8140
Total	0.0332	0.3530	0.3098	6.1000e-004	0.0515	0.0164	0.0679	5.7300e-003	0.0151	0.0208	0.0000	53.3824	53.3824	0.0173	0.0000	53.8140

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	6.4300e-003	0.2778	0.0408	1.0100e-003	0.0545	7.6000e-004	0.0553	0.0141	7.3000e-004	0.0148	0.0000	97.5226	97.5226	5.7800e-003	0.0000	97.6671
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-003	7.1000e-004	7.9700e-003	3.0000e-005	3.0200e-003	2.0000e-005	3.0400e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.3551	2.3551	5.0000e-005	0.0000	2.3564
Total	7.5300e-003	0.2785	0.0488	1.0400e-003	0.0575	7.8000e-004	0.0583	0.0149	7.5000e-004	0.0156	0.0000	99.8778	99.8778	5.8300e-003	0.0000	100.0235

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					0.0201	0.0000	0.0201	2.2300e-003	0.0000	2.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3530	0.3098	6.1000e-004		0.0164	0.0164		0.0151	0.0151	0.0000	53.3823	53.3823	0.0173	0.0000	53.8139
Total	0.0332	0.3530	0.3098	6.1000e-004	0.0201	0.0164	0.0365	2.2300e-003	0.0151	0.0173	0.0000	53.3823	53.3823	0.0173	0.0000	53.8139

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling	6.4300e-003	0.2778	0.0408	1.0100e-003	0.0545	7.6000e-004	0.0553	0.0141	7.3000e-004	0.0148	0.0000	97.5226	97.5226	5.7800e-003	0.0000	97.6671
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-003	7.1000e-004	7.9700e-003	3.0000e-005	3.0200e-003	2.0000e-005	3.0400e-003	8.0000e-004	2.0000e-005	8.2000e-004	0.0000	2.3551	2.3551	5.0000e-005	0.0000	2.3564
Total	7.5300e-003	0.2785	0.0488	1.0400e-003	0.0575	7.8000e-004	0.0583	0.0149	7.5000e-004	0.0156	0.0000	99.8778	99.8778	5.8300e-003	0.0000	100.0235

3.2 Grading - 2023

Unmitigated Construction On-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0515	0.0000	0.0515	5.7300e-003	0.0000	5.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0541	0.5591	0.5291	1.0500e-003		0.0256	0.0256		0.0236	0.0236	0.0000	92.2143	92.2143	0.0298	0.0000	92.9599
Total	0.0541	0.5591	0.5291	1.0500e-003	0.0515	0.0256	0.0771	5.7300e-003	0.0236	0.0293	0.0000	92.2143	92.2143	0.0298	0.0000	92.9599

Unmitigated Construction Off-Site

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.7200e-003	0.2994	0.0613	1.6900e-003	0.0588	5.7000e-004	0.0593	0.0156	5.4000e-004	0.0162	0.0000	162.8787	162.8787	8.0200e-003	0.0000	163.0791
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e-003	1.1100e-003	0.0127	4.0000e-005	5.2200e-003	3.0000e-005	5.2500e-003	1.3900e-003	3.0000e-005	1.4100e-003	0.0000	3.9136	3.9136	8.0000e-005	0.0000	3.9156

Total	9.5100e-003	0.3005	0.0740	1.7300e-003	0.0640	6.0000e-004	0.0646	0.0170	5.7000e-004	0.0176	0.0000	166.7922	166.7922	8.1000e-003	0.0000	166.9946
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0201	0.0000	0.0201	2.2300e-003	0.0000	2.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0541	0.5591	0.5291	1.0500e-003		0.0256	0.0256		0.0236	0.0236	0.0000	92.2142	92.2142	0.0298	0.0000	92.9598
Total	0.0541	0.5591	0.5291	1.0500e-003	0.0201	0.0256	0.0457	2.2300e-003	0.0236	0.0258	0.0000	92.2142	92.2142	0.0298	0.0000	92.9598

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	7.7200e-003	0.2994	0.0613	1.6900e-003	0.0588	5.7000e-004	0.0593	0.0156	5.4000e-004	0.0162	0.0000	162.8787	162.8787	8.0200e-003	0.0000	163.0791
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7900e-003	1.1100e-003	0.0127	4.0000e-005	5.2200e-003	3.0000e-005	5.2500e-003	1.3900e-003	3.0000e-005	1.4100e-003	0.0000	3.9136	3.9136	8.0000e-005	0.0000	3.9156
Total	9.5100e-003	0.3005	0.0740	1.7300e-003	0.0640	6.0000e-004	0.0646	0.0170	5.7000e-004	0.0176	0.0000	166.7922	166.7922	8.1000e-003	0.0000	166.9946

3.3 Building 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	tons/yr										MT/yr					
Off-Road	0.3810	3.4914	3.6376	8.0700e-003		0.1545	0.1545		0.1438	0.1438	0.0000	703.4620	703.4620	0.2055	0.0000	708.5996
Total	0.3810	3.4914	3.6376	8.0700e-003		0.1545	0.1545		0.1438	0.1438	0.0000	703.4620	703.4620	0.2055	0.0000	708.5996

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	7.1800e-003	0.2771	0.0614	1.0400e-003	0.0266	2.8000e-004	0.0269	7.6900e-003	2.7000e-004	7.9600e-003	0.0000	99.3347	99.3347	5.6900e-003	0.0000	99.4771
Worker	0.0410	0.0255	0.2908	9.9000e-004	0.1196	6.8000e-004	0.1202	0.0318	6.3000e-004	0.0324	0.0000	89.6247	89.6247	1.8200e-003	0.0000	89.6701
Total	0.0482	0.3026	0.3522	2.0300e-003	0.1462	9.6000e-004	0.1472	0.0394	9.0000e-004	0.0403	0.0000	188.9594	188.9594	7.5100e-003	0.0000	189.1472

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	0.3810	3.4914	3.6376	8.0700e-003		0.1545	0.1545		0.1438	0.1438	0.0000	703.4611	703.4611	0.2055	0.0000	708.5988
Total	0.3810	3.4914	3.6376	8.0700e-003		0.1545	0.1545		0.1438	0.1438	0.0000	703.4611	703.4611	0.2055	0.0000	708.5988

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	7.1800e-003	0.2771	0.0614	1.0400e-003	0.0266	2.8000e-004	0.0269	7.6900e-003	2.7000e-004	7.9600e-003	0.0000	99.3347	99.3347	5.6900e-003	0.0000	99.4771
Worker	0.0410	0.0255	0.2908	9.9000e-004	0.1196	6.8000e-004	0.1202	0.0318	6.3000e-004	0.0324	0.0000	89.6247	89.6247	1.8200e-003	0.0000	89.6701
Total	0.0482	0.3026	0.3522	2.0300e-003	0.1462	9.6000e-004	0.1472	0.0394	9.0000e-004	0.0403	0.0000	188.9594	188.9594	7.5100e-003	0.0000	189.1472

3.3 Building Construction - 2024

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	0.0130	0.1164	0.1303	2.9000e-004		5.0100e-003	5.0100e-003		4.6600e-003	4.6600e-003	0.0000	25.3613	25.3613	7.4000e-003	0.0000	25.5462
Total	0.0130	0.1164	0.1303	2.9000e-004		5.0100e-003	5.0100e-003		4.6600e-003	4.6600e-003	0.0000	25.3613	25.3613	7.4000e-003	0.0000	25.5462

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-004	9.9300e-003	2.1400e-003	4.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	3.5662	3.5662	2.0000e-004	0.0000	3.5712
Worker	1.4000e-003	8.3000e-004	9.8100e-003	3.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1400e-003	2.0000e-005	1.1700e-003	0.0000	3.1144	3.1144	6.0000e-005	0.0000	3.1159
Total	1.6500e-003	0.0108	0.0120	7.0000e-005	5.2700e-003	3.0000e-005	5.3000e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	6.6805	6.6805	2.6000e-004	0.0000	6.6870

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	0.0130	0.1164	0.1303	2.9000e-004		5.0100e-003	5.0100e-003		4.6600e-003	4.6600e-003	0.0000	25.3613	25.3613	7.4000e-003	0.0000	25.5462
Total	0.0130	0.1164	0.1303	2.9000e-004		5.0100e-003	5.0100e-003		4.6600e-003	4.6600e-003	0.0000	25.3613	25.3613	7.4000e-003	0.0000	25.5462

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.5000e-004	9.9300e-003	2.1400e-003	4.0000e-005	9.6000e-004	1.0000e-005	9.7000e-004	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	3.5662	3.5662	2.0000e-004	0.0000	3.5712
Worker	1.4000e-003	8.3000e-004	9.8100e-003	3.0000e-005	4.3100e-003	2.0000e-005	4.3300e-003	1.1400e-003	2.0000e-005	1.1700e-003	0.0000	3.1144	3.1144	6.0000e-005	0.0000	3.1159
Total	1.6500e-003	0.0108	0.0120	7.0000e-005	5.2700e-003	3.0000e-005	5.3000e-003	1.4200e-003	3.0000e-005	1.4600e-003	0.0000	6.6805	6.6805	2.6000e-004	0.0000	6.6870

3.4 Paving - 2024

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	0.0705	0.6949	0.9750	1.7700e-003		0.0328	0.0328		0.0302	0.0302	0.0000	155.7780	155.7780	0.0504	0.0000	157.0375
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0742	0.6949	0.9750	1.7700e-003		0.0328	0.0328		0.0302	0.0302	0.0000	155.7780	155.7780	0.0504	0.0000	157.0375

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	3.8500e-003	2.2900e-003	0.0270	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1500e-003	6.0000e-005	3.2100e-003	0.0000	8.5804	8.5804	1.6000e-004	0.0000	8.5845

Total	3.8500e-003	2.2900e-003	0.0270	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1500e-003	6.0000e-005	3.2100e-003	0.0000	8.5804	8.5804	1.6000e-004	0.0000	8.5845
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0705	0.6949	0.9750	1.7700e-003		0.0328	0.0328		0.0302	0.0302	0.0000	155.7778	155.7778	0.0504	0.0000	157.0373
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0742	0.6949	0.9750	1.7700e-003		0.0328	0.0328		0.0302	0.0302	0.0000	155.7778	155.7778	0.0504	0.0000	157.0373

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	3.8500e-003	2.2900e-003	0.0270	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1500e-003	6.0000e-005	3.2100e-003	0.0000	8.5804	8.5804	1.6000e-004	0.0000	8.5845
Total	3.8500e-003	2.2900e-003	0.0270	9.0000e-005	0.0119	7.0000e-005	0.0119	3.1500e-003	6.0000e-005	3.2100e-003	0.0000	8.5804	8.5804	1.6000e-004	0.0000	8.5845

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		
Other Non-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-	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
Other Non-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	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Other Non-Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840

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
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

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

Other Non-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

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.0183	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004
Unmitigated	0.0183	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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	3.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0151					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004

Total	0.0183	0.0000	7.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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	3.2400e-003						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0151						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	7.0000e-005	0.0000			0.0000	0.0000		0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-004	
Total	0.0183	0.0000	7.0000e-005	0.0000			0.0000	0.0000		0.0000	0.0000	1.3000e-004	1.3000e-004	0.0000	0.0000	1.4000e-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
Other Non-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
Other Non-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
Other Non-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
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000

Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
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

Santa Ana River Trail Phase 6 - Riverside-South Coast County, Summer

**Santa Ana River Trail Phase 6
Riverside-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.88	Acre	2.88	125,452.80	0
Other Non-Asphalt Surfaces	2.47	Acre	2.47	107,593.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			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 - Class I Multi-use path = 2.88 acres (1.7 miles [8,976ft] long x 14 ft wide)

Natural Surface Trail = 2.47 acres (1.7 miles [8,976ft] x 12ft wide)

Construction Phase - anticipated construction schedule with work beginning in December 2022 and completed by June 2024.

Off-road Equipment - Anticipated Construction Equipment

Off-road Equipment - Anticipated construction equipment

Off-road Equipment - Anticipated Construction Equipment

Grading -

Construction Off-road Equipment Mitigation - SCAQMD Rule 402 & 403

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	20.00	120.00
tblGrading	MaterialImported	0.00	60,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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					
2022	3.7033	56.9091	32.4803	0.1508	7.0377	1.5607	8.5984	1.5650	1.4383	3.0034	0.0000	15,483.7822	15,483.7822	2.2927	0.0000	15,541.0995
2023	3.9031	45.0872	36.3696	0.1476	5.1398	1.4006	6.5191	1.0991	1.3033	2.3692	0.0000	15,146.9432	15,146.9432	2.1844	0.0000	15,201.5520
2024	5.0131	43.3839	52.7455	0.1228	1.5399	1.8084	3.3483	0.4139	1.6765	2.0904	0.0000	11,953.0590	11,953.0590	3.0383	0.0000	12,029.0152
Maximum	5.0131	56.9091	52.7455	0.1508	7.0377	1.8084	8.5984	1.5650	1.6765	3.0034	0.0000	15,483.7822	15,483.7822	3.0383	0.0000	15,541.0995

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					
2022	3.7033	56.9091	32.4803	0.1508	5.9901	1.5607	7.5508	1.4486	1.4383	2.8869	0.0000	15,483.78 22	15,483.782 2	2.2927	0.0000	15,541.09 95
2023	3.9031	45.0872	36.3696	0.1476	4.0922	1.4006	5.4715	0.9827	1.3033	2.2527	0.0000	15,146.94 32	15,146.943 2	2.1844	0.0000	15,201.55 20
2024	5.0131	43.3839	52.7455	0.1228	1.5399	1.8084	3.3483	0.4139	1.6765	2.0904	0.0000	11,953.05 90	11,953.059 0	3.0383	0.0000	12,029.01 52
Maximum	5.0131	56.9091	52.7455	0.1508	5.9901	1.8084	7.5508	1.4486	1.6765	2.8869	0.0000	15,483.78 22	15,483.782 2	3.0383	0.0000	15,541.09 95

	ROG	NOx	CO	SO2	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	15.27	0.00	11.35	7.57	0.00	3.12	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	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
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	0.1004	0.0000	5.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003

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	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
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	0.1004	0.0000	5.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003

	ROG	NOx	CO	SO2	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	Grading	Grading	12/1/2022	2/22/2023	5	60	
2	Building Construction	Building Construction	2/23/2023	1/10/2024	5	230	
3	Paving	Paving	1/10/2024	6/25/2024	5	120	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 5.35

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	3	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Off-Highway Tractors	1	8.00	124	0.44
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30

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
Grading	10	25.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	98.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2022

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					1.7174	0.0000	1.7174	0.1909	0.0000	0.1909			0.0000			0.0000
Off-Road	3.0210	32.0927	28.1610	0.0553		1.4905	1.4905		1.3713	1.3713		5,349.4520	5,349.4520	1.7301		5,392.7050
Total	3.0210	32.0927	28.1610	0.0553	1.7174	1.4905	3.2079	0.1909	1.3713	1.5622		5,349.4520	5,349.4520	1.7301		5,392.7050

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	0.5715	24.7556	3.4669	0.0930	5.0409	0.0685	5.1095	1.3000	0.0656	1.3656		9,877.8688	9,877.8688	0.5569		9,891.7904
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	0.1109	0.0608	0.8525	2.5700e-003	0.2794	1.6000e-003	0.2810	0.0741	1.4800e-003	0.0756		256.4615	256.4615	5.7000e-003		256.6040
Total	0.6824	24.8164	4.3194	0.0956	5.3204	0.0701	5.3905	1.3741	0.0671	1.4411		10,134.3303	10,134.3303	0.5626		10,148.3945

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					0.6698	0.0000	0.6698	0.0745	0.0000	0.0745			0.0000			0.0000
Off-Road	3.0210	32.0927	28.1610	0.0553		1.4905	1.4905		1.3713	1.3713	0.0000	5,349.4520	5,349.4520	1.7301		5,392.7050
Total	3.0210	32.0927	28.1610	0.0553	0.6698	1.4905	2.1603	0.0745	1.3713	1.4458	0.0000	5,349.4520	5,349.4520	1.7301		5,392.7050

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	0.5715	24.7556	3.4669	0.0930	5.0409	0.0685	5.1095	1.3000	0.0656	1.3656		9,877.8688	9,877.8688	0.5569		9,891.7904
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	0.1109	0.0608	0.8525	2.5700e-003	0.2794	1.6000e-003	0.2810	0.0741	1.4800e-003	0.0756		256.4615	256.4615	5.7000e-003		256.6040
Total	0.6824	24.8164	4.3194	0.0956	5.3204	0.0701	5.3905	1.3741	0.0671	1.4411		10,134.3303	10,134.3303	0.5626		10,148.3945

3.2 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
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Category	lb/day										lb/day					
Fugitive Dust					1.7174	0.0000	1.7174	0.1909	0.0000	0.1909			0.0000			0.0000
Off-Road	2.8448	29.4265	27.8471	0.0553		1.3480	1.3480		1.2402	1.2402	5,349.9417	5,349.9417	1.7303			5,393.1987
Total	2.8448	29.4265	27.8471	0.0553	1.7174	1.3480	3.0654	0.1909	1.2402	1.4311	5,349.9417	5,349.9417	1.7303			5,393.1987

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	0.3974	15.6059	3.0567	0.0899	3.1430	0.0297	3.1727	0.8341	0.0284	0.8625		9,550.2862	9,550.2862	0.4490			9,561.5100
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	0.1040	0.0548	0.7868	2.4800e-003	0.2794	1.5700e-003	0.2810	0.0741	1.4400e-003	0.0756		246.7153	246.7153	5.1200e-003			246.8432
Total	0.5014	15.6607	3.8435	0.0923	3.4224	0.0313	3.4537	0.9082	0.0299	0.9381		9,797.0015	9,797.0015	0.4541			9,808.3533

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					0.6698	0.0000	0.6698	0.0745	0.0000	0.0745			0.0000			0.0000	
Off-Road	2.8448	29.4265	27.8471	0.0553		1.3480	1.3480		1.2402	1.2402	0.0000	5,349.9417	5,349.9417	1.7303			5,393.1987

Total	2.8448	29.4265	27.8471	0.0553	0.6698	1.3480	2.0178	0.0745	1.2402	1.3147	0.0000	5,349.9417	5,349.9417	1.7303		5,393.1987
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3974	15.6059	3.0567	0.0899	3.1430	0.0297	3.1727	0.8341	0.0284	0.8625		9,550.2862	9,550.2862	0.4490		9,561.5100
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	0.1040	0.0548	0.7868	2.4800e-003	0.2794	1.5700e-003	0.2810	0.0741	1.4400e-003	0.0756		246.7153	246.7153	5.1200e-003		246.8432
Total	0.5014	15.6607	3.8435	0.0923	3.4224	0.0313	3.4537	0.9082	0.0299	0.9381		9,797.0015	9,797.0015	0.4541		9,808.3533

3.3 Building 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	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953		6,985.8928	6,985.8928	2.0408		7,036.9132
Total	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953		6,985.8928	6,985.8928	2.0408		7,036.9132

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	0.0635	2.4948	0.5144	9.4900e-003	0.2433	2.5100e-003	0.2458	0.0701	2.4000e-003	0.0725		1,002.1343	1,002.1343	0.0540		1,003.4839
Worker	0.4075	0.2148	3.0842	9.7000e-003	1.0954	6.1400e-003	1.1015	0.2905	5.6500e-003	0.2962		967.1240	967.1240	0.0201		967.6255
Total	0.4709	2.7096	3.5985	0.0192	1.3387	8.6500e-003	1.3474	0.3606	8.0500e-003	0.3686		1,969.2583	1,969.2583	0.0740		1,971.1094

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	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953	0.0000	6,985.8928	6,985.8928	2.0408		7,036.9132
Total	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953	0.0000	6,985.8928	6,985.8928	2.0408		7,036.9132

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	0.0000	0.0000
Vendor	0.0635	2.4948	0.5144	9.4900e-003	0.2433	2.5100e-003	0.2458	0.0701	2.4000e-003	0.0725		1,002.1343	1,002.1343	0.0540		1,003.4839
Worker	0.4075	0.2148	3.0842	9.7000e-003	1.0954	6.1400e-003	1.1015	0.2905	5.6500e-003	0.2962		967.1240	967.1240	0.0201		967.6255
Total	0.4709	2.7096	3.5985	0.0192	1.3387	8.6500e-003	1.3474	0.3606	8.0500e-003	0.3686		1,969.2583	1,969.2583	0.0740		1,971.1094

3.3 Building Construction - 2024

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	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649		6,989.0226	6,989.0226	2.0382		7,039.9770
Total	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649		6,989.0226	6,989.0226	2.0382		7,039.9770

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	0.0622	2.4812	0.4969	9.4500e-003	0.2433	2.5000e-003	0.2458	0.0701	2.3900e-003	0.0724		998.2138	998.2138	0.0528		999.5341
Worker	0.3840	0.1948	2.8919	9.3500e-003	1.0954	6.0700e-003	1.1015	0.2905	5.5900e-003	0.2961		932.5988	932.5988	0.0183		933.0561
Total	0.4462	2.6760	3.3887	0.0188	1.3387	8.5700e-003	1.3473	0.3606	7.9800e-003	0.3685		1,930.8126	1,930.8126	0.0711		1,932.5902

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	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649	0.0000	6,989.0226	6,989.0226	2.0382		7,039.9770
Total	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649	0.0000	6,989.0226	6,989.0226	2.0382		7,039.9770

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	0.0622	2.4812	0.4969	9.4500e-003	0.2433	2.5000e-003	0.2458	0.0701	2.3900e-003	0.0724		998.2138	998.2138	0.0528		999.5341
Worker	0.3840	0.1948	2.8919	9.3500e-003	1.0954	6.0700e-003	1.1015	0.2905	5.5900e-003	0.2961		932.5988	932.5988	0.0183		933.0561
Total	0.4462	2.6760	3.3887	0.0188	1.3387	8.5700e-003	1.3473	0.3606	7.9800e-003	0.3685		1,930.8126	1,930.8126	0.0711		1,932.5902

3.4 Paving - 2024

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	1.1743	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026		2,861.9302	2,861.9302	0.9256		2,885.0703
Paving	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2372	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026		2,861.9302	2,861.9302	0.9256		2,885.0703

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	0.0705	0.0358	0.5312	1.7200e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		171.2937	171.2937	3.3600e-003		171.3777
Total	0.0705	0.0358	0.5312	1.7200e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		171.2937	171.2937	3.3600e-003		171.3777

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	1.1743	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026	0.0000	2,861.9302	2,861.9302	0.9256		2,885.0703

Paving	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2372	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026	0.0000	2,861.930	2,861.9302	0.9256		2,885.070
												2				3

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	0.0705	0.0358	0.5312	1.7200e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		171.2937	171.2937	3.3600e-003		171.3777
Total	0.0705	0.0358	0.5312	1.7200e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		171.2937	171.2937	3.3600e-003		171.3777

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		
Other Non-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-	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
Other Non-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	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Other Non-Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840

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 - NaturalGas
Unmitigated

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

Mitigated

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

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
Unmitigated	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
Total	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
Total	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003

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

Santa Ana River Trail Phase 6 - Riverside-South Coast County, Winter

**Santa Ana River Trail Phase 6
Riverside-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	2.88	Acre	2.88	125,452.80	0
Other Non-Asphalt Surfaces	2.47	Acre	2.47	107,593.20	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			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 - Class I Multi-use path = 2.88 acres (1.7 miles [8,976ft] long x 14 ft wide)

Natural Surface Trail = 2.47 acres (1.7 miles [8,976ft] x 12ft wide)

Construction Phase - anticipated construction schedule with work beginning in December 2022 and completed by June 2024.

Off-road Equipment - Anticipated Construction Equipment

Off-road Equipment - Anticipated construction equipment

Off-road Equipment - Anticipated Construction Equipment

Grading -

Construction Off-road Equipment Mitigation - SCAQMD Rule 402 & 403

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	20.00	120.00
tblGrading	MaterialImported	0.00	60,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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					
2022	3.7320	57.0175	32.8821	0.1482	7.0377	1.5618	8.5995	1.5650	1.4394	3.0044	0.0000	15,207.1334	15,207.1334	2.3441	0.0000	15,265.7365
2023	3.9017	44.9918	35.8473	0.1451	5.1398	1.4007	6.5196	1.0991	1.3034	2.3697	0.0000	14,881.9279	14,881.9279	2.2210	0.0000	14,937.4537
2024	5.0124	43.3580	52.1492	0.1214	1.5399	1.8085	3.3484	0.4139	1.6766	2.0905	0.0000	11,802.6188	11,802.6188	3.0412	0.0000	11,878.6486
Maximum	5.0124	57.0175	52.1492	0.1482	7.0377	1.8085	8.5995	1.5650	1.6766	3.0044	0.0000	15,207.1334	15,207.1334	3.0412	0.0000	15,265.7365

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					
2022	3.7320	57.0175	32.8821	0.1482	5.9901	1.5618	7.5519	1.4486	1.4394	2.8880	0.0000	15,207.1334	15,207.1334	2.3441	0.0000	15,265.7365
2023	3.9017	44.9918	35.8473	0.1451	4.0922	1.4007	5.4720	0.9827	1.3034	2.2532	0.0000	14,881.9279	14,881.9279	2.2210	0.0000	14,937.4537
2024	5.0124	43.3580	52.1492	0.1214	1.5399	1.8085	3.3484	0.4139	1.6766	2.0905	0.0000	11,802.6188	11,802.6188	3.0412	0.0000	11,878.6486
Maximum	5.0124	57.0175	52.1492	0.1482	5.9901	1.8085	7.5519	1.4486	1.6766	2.8880	0.0000	15,207.1334	15,207.1334	3.0412	0.0000	15,265.7365

	ROG	NOx	CO	SO2	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	15.27	0.00	11.35	7.57	0.00	3.12	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	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
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
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	0.1004	0.0000	5.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003

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	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
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	0.1004	0.0000	5.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003

	ROG	NOx	CO	SO2	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	Grading	Grading	12/1/2022	2/22/2023	5	60	
2	Building Construction	Building Construction	2/23/2023	1/10/2024	5	230	
3	Paving	Paving	1/10/2024	6/25/2024	5	120	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 90

Acres of Paving: 5.35

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41

Grading	Other Construction Equipment	1	8.00	172	0.42
Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Surfacing Equipment	1	8.00	263	0.30
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Trenchers	1	8.00	78	0.50
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	3	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Off-Highway Tractors	1	8.00	124	0.44
Building Construction	Off-Highway Trucks	1	8.00	402	0.38
Building Construction	Other Construction Equipment	1	8.00	172	0.42
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Surfacing Equipment	1	8.00	263	0.30

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
Grading	10	25.00	0.00	7,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	98.00	38.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading - 2022

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					1.7174	0.0000	1.7174	0.1909	0.0000	0.1909			0.0000			0.0000
Off-Road	3.0210	32.0927	28.1610	0.0553		1.4905	1.4905		1.3713	1.3713		5,349.4520	5,349.4520	1.7301		5,392.7050
Total	3.0210	32.0927	28.1610	0.0553	1.7174	1.4905	3.2079	0.1909	1.3713	1.5622		5,349.4520	5,349.4520	1.7301		5,392.7050

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	0.6019	24.8620	4.0341	0.0907	5.0409	0.0696	5.1106	1.3000	0.0666	1.3666		9,627.5967	9,627.5967	0.6090		9,642.8228
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	0.1091	0.0628	0.6871	2.3100e-003	0.2794	1.6000e-003	0.2810	0.0741	1.4800e-003	0.0756		230.0847	230.0847	4.9600e-003		230.2088
Total	0.7111	24.9248	4.7212	0.0930	5.3204	0.0712	5.3916	1.3741	0.0681	1.4422		9,857.6814	9,857.6814	0.6140		9,873.0316

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					0.6698	0.0000	0.6698	0.0745	0.0000	0.0745			0.0000				0.0000
Off-Road	3.0210	32.0927	28.1610	0.0553		1.4905	1.4905		1.3713	1.3713	0.0000	5,349.4520	5,349.4520	1.7301			5,392.7050
Total	3.0210	32.0927	28.1610	0.0553	0.6698	1.4905	2.1603	0.0745	1.3713	1.4458	0.0000	5,349.4520	5,349.4520	1.7301			5,392.7050

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	0.6019	24.8620	4.0341	0.0907	5.0409	0.0696	5.1106	1.3000	0.0666	1.3666		9,627.5967	9,627.5967	0.6090			9,642.8228
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	0.1091	0.0628	0.6871	2.3100e-003	0.2794	1.6000e-003	0.2810	0.0741	1.4800e-003	0.0756		230.0847	230.0847	4.9600e-003			230.2088
Total	0.7111	24.9248	4.7212	0.0930	5.3204	0.0712	5.3916	1.3741	0.0681	1.4422		9,857.6814	9,857.6814	0.6140			9,873.0316

3.2 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
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Category	lb/day										lb/day					
Fugitive Dust					1.7174	0.0000	1.7174	0.1909	0.0000	0.1909			0.0000			0.0000
Off-Road	2.8448	29.4265	27.8471	0.0553		1.3480	1.3480		1.2402	1.2402	5,349.9417	5,349.9417	1.7303			5,393.1987
Total	2.8448	29.4265	27.8471	0.0553	1.7174	1.3480	3.0654	0.1909	1.2402	1.4311	5,349.9417	5,349.9417	1.7303			5,393.1987

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	0.4184	15.5087	3.4383	0.0876	3.1430	0.0302	3.1732	0.8341	0.0289	0.8630		9,310.6332	9,310.6332	0.4863			9,322.7905
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	0.1026	0.0566	0.6332	2.2200e-003	0.2794	1.5700e-003	0.2810	0.0741	1.4400e-003	0.0756		221.3530	221.3530	4.4600e-003			221.4645
Total	0.5210	15.5653	4.0715	0.0898	3.4224	0.0318	3.4542	0.9082	0.0304	0.9386		9,531.9862	9,531.9862	0.4908			9,544.2550

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					0.6698	0.0000	0.6698	0.0745	0.0000	0.0745			0.0000				0.0000
Off-Road	2.8448	29.4265	27.8471	0.0553		1.3480	1.3480		1.2402	1.2402	0.0000	5,349.9417	5,349.9417	1.7303			5,393.1987

Total	2.8448	29.4265	27.8471	0.0553	0.6698	1.3480	2.0178	0.0745	1.2402	1.3147	0.0000	5,349.9417	5,349.9417	1.7303		5,393.1987
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4184	15.5087	3.4383	0.0876	3.1430	0.0302	3.1732	0.8341	0.0289	0.8630		9,310.6332	9,310.6332	0.4863		9,322.7905
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	0.1026	0.0566	0.6332	2.2200e-003	0.2794	1.5700e-003	0.2810	0.0741	1.4400e-003	0.0756		221.3530	221.3530	4.4600e-003		221.4645
Total	0.5210	15.5653	4.0715	0.0898	3.4224	0.0318	3.4542	0.9082	0.0304	0.9386		9,531.9862	9,531.9862	0.4908		9,544.2550

3.3 Building 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	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953		6,985.8928	6,985.8928	2.0408		7,036.9132
Total	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953		6,985.8928	6,985.8928	2.0408		7,036.9132

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	0.0672	2.4609	0.5940	9.1400e-003	0.2433	2.5900e-003	0.2459	0.0701	2.4800e-003	0.0725		964.8300	964.8300	0.0598		966.3260
Worker	0.4023	0.2220	2.4821	8.7000e-003	1.0954	6.1400e-003	1.1015	0.2905	5.6500e-003	0.2962		867.7038	867.7038	0.0175		868.1409
Total	0.4695	2.6828	3.0762	0.0178	1.3387	8.7300e-003	1.3474	0.3606	8.1300e-003	0.3687		1,832.5338	1,832.5338	0.0773		1,834.4669

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	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953	0.0000	6,985.8928	6,985.8928	2.0408		7,036.9132
Total	3.4322	31.4540	32.7711	0.0727		1.3919	1.3919		1.2953	1.2953	0.0000	6,985.8928	6,985.8928	2.0408		7,036.9132

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	0.0000	0.0000
Vendor	0.0672	2.4609	0.5940	9.1400e-003	0.2433	2.5900e-003	0.2459	0.0701	2.4800e-003	0.0725		964.8300	964.8300	0.0598		966.3260
Worker	0.4023	0.2220	2.4821	8.7000e-003	1.0954	6.1400e-003	1.1015	0.2905	5.6500e-003	0.2962		867.7038	867.7038	0.0175		868.1409
Total	0.4695	2.6828	3.0762	0.0178	1.3387	8.7300e-003	1.3474	0.3606	8.1300e-003	0.3687		1,832.5338	1,832.5338	0.0773		1,834.4669

3.3 Building Construction - 2024

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	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649		6,989.0226	6,989.0226	2.0382		7,039.9770
Total	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649		6,989.0226	6,989.0226	2.0382		7,039.9770

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	0.0659	2.4478	0.5749	9.1100e-003	0.2433	2.5700e-003	0.2459	0.0701	2.4600e-003	0.0725		961.4050	961.4050	0.0585		962.8682
Worker	0.3803	0.2012	2.3221	8.3900e-003	1.0954	6.0700e-003	1.1015	0.2905	5.5900e-003	0.2961		836.5999	836.5999	0.0160		836.9986
Total	0.4463	2.6489	2.8971	0.0175	1.3387	8.6400e-003	1.3474	0.3606	8.0500e-003	0.3686		1,798.0048	1,798.0048	0.0745		1,799.8668

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	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649	0.0000	6,989.0226	6,989.0226	2.0382		7,039.9770
Total	3.2591	29.0913	32.5750	0.0728		1.2525	1.2525		1.1649	1.1649	0.0000	6,989.0226	6,989.0226	2.0382		7,039.9770

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	0.0659	2.4478	0.5749	9.1100e-003	0.2433	2.5700e-003	0.2459	0.0701	2.4600e-003	0.0725		961.4050	961.4050	0.0585		962.8682
Worker	0.3803	0.2012	2.3221	8.3900e-003	1.0954	6.0700e-003	1.1015	0.2905	5.5900e-003	0.2961		836.5999	836.5999	0.0160		836.9986
Total	0.4463	2.6489	2.8971	0.0175	1.3387	8.6400e-003	1.3474	0.3606	8.0500e-003	0.3686		1,798.0048	1,798.0048	0.0745		1,799.8668

3.4 Paving - 2024

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	1.1743	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026		2,861.9302	2,861.9302	0.9256		2,885.0703
Paving	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2372	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026		2,861.9302	2,861.9302	0.9256		2,885.0703

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	0.0699	0.0370	0.4265	1.5400e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		153.6612	153.6612	2.9300e-003		153.7344
Total	0.0699	0.0370	0.4265	1.5400e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		153.6612	153.6612	2.9300e-003		153.7344

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	1.1743	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026	0.0000	2,861.9302	2,861.9302	0.9256		2,885.0703

Paving	0.0629					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2372	11.5809	16.2507	0.0296		0.5463	0.5463		0.5026	0.5026	0.0000	2,861.9302	2,861.9302	0.9256		2,885.0703

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	0.0699	0.0370	0.4265	1.5400e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		153.6612	153.6612	2.9300e-003		153.7344
Total	0.0699	0.0370	0.4265	1.5400e-003	0.2012	1.1200e-003	0.2023	0.0534	1.0300e-003	0.0544		153.6612	153.6612	2.9300e-003		153.7344

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		
Other Non-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-	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
Other Non-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	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840
Other Non-Asphalt Surfaces	0.551648	0.035769	0.187848	0.110184	0.013450	0.004660	0.017552	0.070120	0.001413	0.001134	0.004476	0.000905	0.000840

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 - NaturalGas
Unmitigated

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

Mitigated

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

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
Unmitigated	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
Total	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0178					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0825					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003
Total	0.1004	0.0000	5.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1700e-003	1.1700e-003	0.0000		1.2500e-003

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Grading	Excavators	1	8.00	158	0.38	2.4016	8	60	1152.768
Grading	Graders	1	8.00	187	0.41	3.0668	8	60	1472.064
Grading	Other Construction Equipment	1	8.00	172	0.42	2.8896	8	60	1387.008
Grading	Rollers	1	8.00	80	0.38	1.216	8	60	583.68
Grading	Scrapers	1	8.00	367	0.48	7.0464	8	60	3382.272
Grading	Surfacing Equipment	1	8.00	263	0.30	3.156	8	60	1514.88
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37	1.4356	24	60	2067.264
Grading	Trenchers	1	8.00	78	0.50	1.56	8	60	748.8
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50	4.42	8	230	8132.8
Building Construction	Cranes	3	7.00	231	0.29	2.6796	21	230	12942.468
Building Construction	Excavators	1	8.00	158	0.38	2.4016	8	230	4418.944
Building Construction	Forklifts	1	8.00	89	0.20	0.712	8	230	1310.08
Building Construction	Generator Sets	1	8.00	84	0.74	2.4864	8	230	4574.976
Building Construction	Off-Highway Tractors	1	8.00	124	0.44	2.1824	8	230	4015.616
Building Construction	Off-Highway Trucks	1	8.00	402	0.38	6.1104	8	230	11243.136
Building Construction	Other Construction Equipment	1	8.00	172	0.42	2.8896	8	230	5316.864
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37	1.4356	21	230	6933.948
Building Construction	Welders	1	8.00	46	0.45	0.828	8	230	1523.52
Paving	Pavers	2	8.00	130	0.42	2.184	16	120	4193.28
Paving	Paving Equipment	2	8.00	132	0.36	1.9008	16	120	3649.536
Paving	Rollers	2	8.00	80	0.38	1.216	16	120	2334.72
Paving	Surfacing Equipment	1	8.00	263	0.30	3.156	8	120	3029.76

Notes: **112,270**

Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor

Where:

Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.

Source: Refer to CalEEMod outputs for construction information.

Worker Trips							
Phase	Phase Length (days)	(#	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading		60	25	14.7	367.5		14.7573516
Building Construction		230	98	14.7	1440.6	24.90284233	57.84881827
Paving		120	18	14.7	264.6		10.62529315
							83.23146302
VENDOR TRIPS							
Phase	Phase Length (days)	(#	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading		60	0	6.9	0		0
Building Construction		230	38	6.9	262.2	8.343886151	31.42420633
Paving		120	0	6.9	0		0
							31.42420633
HAULING TRIPS							
Phase	Phase Length (days)	(#	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading		60	7500	20	150000		26227.29856
Building Construction		230	0	20	0	5.719231801	0
Paving		120	0	20	0		0
							26227.29856
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION							26,341.95