

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS MODELING DATA

Residences at 4440 Von Karman-Stand Alone Pkg Struct - Orange County, Summer

**Residences at 4440 Von Karman-Stand Alone Pkg Struct
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	103.18	1000sqft	1.40	103,177.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adj per the SCE 2019 Corporate Responsibility Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25*0.029-298*0.00617=531.4363$ to avoid double counting.

Land Use - stand alone parking structure only this run

Construction Phase - anticipated schedule - stand alone parking structure

Grading - 112,000 CY offhaul for residential building, additional for utility work

Demolition -

Trips and VMT - haul truck trips for demo

Vehicle Trips - Trip rates per traffic study.

Woodstoves - no wood burning per SCAQMD Rule 445

Energy Use - Electricity adjusted per 2019 T24

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Construction Off-road Equipment Mitigation - Rule 403

Off-road Equipment - Demo is for 1.4 acre surface lot

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	NumDays	200.00	110.00
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	PhaseEndDate	6/20/2024	1/20/2022
tblConstructionPhase	PhaseEndDate	3/2/2023	1/20/2022
tblConstructionPhase	PhaseEndDate	9/2/2021	8/12/2021
tblConstructionPhase	PhaseEndDate	11/25/2021	8/19/2021
tblConstructionPhase	PhaseEndDate	5/23/2024	1/20/2022
tblConstructionPhase	PhaseStartDate	5/24/2024	1/1/2022
tblConstructionPhase	PhaseStartDate	1/7/2022	8/20/2021
tblConstructionPhase	PhaseStartDate	10/15/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	4/26/2024	1/1/2022
tblLandUse	LandUseSquareFeet	103,180.00	103,177.00
tblLandUse	LotAcreage	2.37	1.40
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44

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					
2021	2.2002	25.3813	16.4413	0.0423	6.2300	1.0596	7.2896	2.5493	0.9893	3.1367	0.0000	4,334.3270	4,334.3270	0.7913	0.0000	4,354.1084
2022	4.8549	22.3227	25.6063	0.0493	0.8352	1.0255	1.8607	0.2239	0.9781	1.2020	0.0000	4,691.4100	4,691.4100	0.8262	0.0000	4,712.0655
Maximum	4.8549	25.3813	25.6063	0.0493	6.2300	1.0596	7.2896	2.5493	0.9893	3.1367	0.0000	4,691.4100	4,691.4100	0.8262	0.0000	4,712.0655

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					
2021	2.2002	25.3813	16.4413	0.0423	3.1209	1.0596	4.1805	0.9583	0.9893	1.6014	0.0000	4,334.3270	4,334.3270	0.7913	0.0000	4,354.1084
2022	4.8549	22.3227	25.6063	0.0493	0.7926	1.0255	1.8181	0.2135	0.9781	1.1916	0.0000	4,691.4100	4,691.4100	0.8262	0.0000	4,712.0655
Maximum	4.8549	25.3813	25.6063	0.0493	3.1209	1.0596	4.1805	0.9583	0.9893	1.6014	0.0000	4,691.4100	4,691.4100	0.8262	0.0000	4,712.0655

	ROG	NOx	CO	SO2	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	44.61	0.00	34.44	57.75	0.00	35.63	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

1	A1 Demolition	Demolition	8/6/2021	8/12/2021	5	20	Parking Structure
2	A2 Grading	Grading	8/13/2021	8/19/2021	5	4	Parking Structure
3	A3 Building Construction	Building Construction	8/20/2021	1/20/2022	5	110	Parking Structure
4	A4 Paving	Paving	1/1/2022	1/20/2022	5	14	
5	A5 Architectural Coating	Architectural Coating	1/1/2022	1/20/2022	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,191

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
A5 Architectural Coating	Air Compressors	1	6.00	78	0.48
A4 Paving	Cement and Mortar Mixers	1	6.00	9	0.56
A1 Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
A3 Building Construction	Cranes	1	6.00	231	0.29
A3 Building Construction	Forklifts	1	6.00	89	0.20
A3 Building Construction	Generator Sets	1	8.00	84	0.74
A4 Paving	Pavers	1	6.00	130	0.42
A4 Paving	Rollers	1	7.00	80	0.38
A1 Demolition	Rubber Tired Dozers	1	8.00	247	0.40
A2 Grading	Rubber Tired Dozers	1	6.00	247	0.40
A3 Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
A2 Grading	Graders	1	6.00	187	0.41
A2 Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
A4 Paving	Paving Equipment	1	8.00	132	0.36
A1 Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
A3 Building Construction	Welders	3	8.00	46	0.45
A4 Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
A1 Demolition	5	13.00	0.00	445.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A2 Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A3 Building Construction	7	43.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A4 Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A5 Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 A1 Demolition - 2021

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					4.8148	0.0000	4.8148	0.7290	0.0000	0.7290			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	4.8148	1.0409	5.8557	0.7290	0.9715	1.7005		2,322.7171	2,322.7171	0.5940		2,337.5658

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	0.1602	5.6563	1.5539	0.0168	1.2699	0.0178	1.2877	0.3227	0.0170	0.3397		1,874.8247	1,874.8247	0.1944		1,879.6841
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	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
Total	0.2072	5.6847	1.9487	0.0182	1.4152	0.0187	1.4339	0.3612	0.0179	0.3791		2,011.6099	2,011.6099	0.1973		2,016.5426

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					1.7839	0.0000	1.7839	0.2701	0.0000	0.2701			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	1.7839	1.0409	2.8248	0.2701	0.9715	1.2416	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
	Hauling	0.1602	5.6563	1.5539	0.0168	1.1993	0.0178	1.2171	0.3053	0.0170	0.3223	1,874.8247	1,874.8247	0.1944
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	0.0469	0.0284	0.3949	1.3700e-003	0.1377	9.4000e-004	0.1387	0.0367	8.7000e-004	0.0375	136.7852	136.7852	2.9300e-003	136.8585
Total	0.2072	5.6847	1.9487	0.0182	1.3370	0.0187	1.3557	0.3420	0.0179	0.3599	2,011.6099	2,011.6099	0.1973	2,016.5426

3.3 A2 Grading - 2021

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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.9143	0.6379	5.5522	2.5256	0.5869	3.1125		1,365.0648	1,365.0648	0.4415		1,376.1020

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	0.0289	0.0175	0.2430	8.4000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.1755	84.1755	1.8000e-003		84.2206
Total	0.0289	0.0175	0.2430	8.4000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		84.1755	84.1755	1.8000e-003		84.2206

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					1.8207	0.0000	1.8207	0.9357	0.0000	0.9357			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	1.8207	0.6379	2.4586	0.9357	0.5869	1.5226	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020

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	0.0289	0.0175	0.2430	8.4000e-004	0.0848	5.8000e-004	0.0853	0.0226	5.3000e-004	0.0231		84.1755	84.1755	1.8000e-003		84.2206
Total	0.0289	0.0175	0.2430	8.4000e-004	0.0848	5.8000e-004	0.0853	0.0226	5.3000e-004	0.0231		84.1755	84.1755	1.8000e-003		84.2206

3.4 A3 Building Construction - 2021

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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573			2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573			2,010.1517

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	0.0454	1.5948	0.4325	4.1900e-003	0.1086	3.3100e-003	0.1119	0.0313	3.1700e-003	0.0344		456.9473	456.9473	0.0358			457.8430
Worker	0.1552	0.0939	1.3060	4.5400e-003	0.4806	3.1100e-003	0.4838	0.1275	2.8600e-003	0.1303		452.4435	452.4435	9.6900e-003			452.6857
Total	0.2006	1.6888	1.7386	8.7300e-003	0.5893	6.4200e-003	0.5957	0.1587	6.0300e-003	0.1648		909.3907	909.3907	0.0455			910.5287

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

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	0.0454	1.5948	0.4325	4.1900e-003	0.1040	3.3100e-003	0.1073	0.0301	3.1700e-003	0.0333		456.9473	456.9473	0.0358		457.8430
Worker	0.1552	0.0939	1.3060	4.5400e-003	0.4556	3.1100e-003	0.4587	0.1213	2.8600e-003	0.1242		452.4435	452.4435	9.6900e-003		452.6857
Total	0.2006	1.6888	1.7386	8.7300e-003	0.5595	6.4200e-003	0.5660	0.1514	6.0300e-003	0.1575		909.3907	909.3907	0.0455		910.5287

3.4 A3 Building Construction - 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					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0427	1.5088	0.4176	4.1400e-003	0.1086	2.8800e-003	0.1115	0.0313	2.7600e-003	0.0340		452.4594	452.4594	0.0347		453.3272
Worker	0.1467	0.0851	1.2190	4.3700e-003	0.4806	3.0500e-003	0.4837	0.1275	2.8100e-003	0.1303		435.6765	435.6765	8.8000e-003		435.8965
Total	0.1893	1.5939	1.6366	8.5100e-003	0.5893	5.9300e-003	0.5952	0.1587	5.5700e-003	0.1643		888.1360	888.1360	0.0435		889.2237

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0427	1.5088	0.4176	4.1400e-003	0.1040	2.8800e-003	0.1068	0.0301	2.7600e-003	0.0329		452.4594	452.4594	0.0347		453.3272
Worker	0.1467	0.0851	1.2190	4.3700e-003	0.4556	3.0500e-003	0.4586	0.1213	2.8100e-003	0.1241		435.6765	435.6765	8.8000e-003		435.8965
Total	0.1893	1.5939	1.6366	8.5100e-003	0.5595	5.9300e-003	0.5655	0.1514	5.5700e-003	0.1570		888.1360	888.1360	0.0435		889.2237

3.5 A4 Paving - 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					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0443	0.0257	0.3685	1.3200e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		131.7162	131.7162	2.6600e-003		131.7827
Total	0.0443	0.0257	0.3685	1.3200e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		131.7162	131.7162	2.6600e-003		131.7827

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608

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	0.0443	0.0257	0.3685	1.3200e-003	0.1377	9.2000e-004	0.1387	0.0367	8.5000e-004	0.0375		131.7162	131.7162	2.6600e-003		131.7827

Total	0.0443	0.0257	0.3685	1.3200e-003	0.1377	9.2000e-004	0.1387	0.0367	8.5000e-004	0.0375		131.7162	131.7162	2.6600e-003		131.7827
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3.6 A5 Architectural Coating - 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						
Archit. Coating	2.0497					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183			281.9062
Total	2.2542	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183			281.9062

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	0.0307	0.0178	0.2551	9.1000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		91.1881	91.1881	1.8400e-003			91.2342
Total	0.0307	0.0178	0.2551	9.1000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		91.1881	91.1881	1.8400e-003			91.2342

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	2.0497					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	2.2542	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0307	0.0178	0.2551	9.1000e-004	0.0954	6.4000e-004	0.0960	0.0254	5.9000e-004	0.0260		91.1881	91.1881	1.8400e-003		91.2342
Total	0.0307	0.0178	0.2551	9.1000e-004	0.0954	6.4000e-004	0.0960	0.0254	5.9000e-004	0.0260		91.1881	91.1881	1.8400e-003		91.2342

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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
Enclosed Parking with Elevator	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
Enclosed Parking with Elevator	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
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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	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					
Enclosed Parking with Elevator	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					
Enclosed Parking with Elevator	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	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241
Unmitigated	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241

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	7.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7000e-004	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241
Total	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241

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	7.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7000e-004	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241
Total	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Residences at 4440 Von Karman-Stand Alone Pkg Struct - Orange County, Winter

**Residences at 4440 Von Karman-Stand Alone Pkg Struct
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	103.18	1000sqft	1.40	103,177.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	531.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adj per the SCE 2019 Corporate Responsibility Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25*0.029-298*0.00617=531.4363$ to avoid double counting.

Land Use - stand alone parking structure only this run

Construction Phase - anticipated schedule - stand alone parking structure

Grading - 112,000 CY offhaul for residential building, additional for utility work

Demolition -

Trips and VMT - haul truck trips for demo

Vehicle Trips - Trip rates per traffic study.

Woodstoves - no wood burning per SCAQMD Rule 445

Energy Use - Electricity adjusted per 2019 T24

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Construction Off-road Equipment Mitigation - Rule 403

Off-road Equipment - Demo is for 1.4 acre surface lot

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	NumDays	200.00	110.00
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	PhaseEndDate	6/20/2024	1/20/2022
tblConstructionPhase	PhaseEndDate	3/2/2023	1/20/2022
tblConstructionPhase	PhaseEndDate	9/2/2021	8/12/2021
tblConstructionPhase	PhaseEndDate	11/25/2021	8/19/2021
tblConstructionPhase	PhaseEndDate	5/23/2024	1/20/2022
tblConstructionPhase	PhaseStartDate	5/24/2024	1/1/2022
tblConstructionPhase	PhaseStartDate	1/7/2022	8/20/2021
tblConstructionPhase	PhaseStartDate	10/15/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	4/26/2024	1/1/2022
tblLandUse	LandUseSquareFeet	103,180.00	103,177.00
tblLandUse	LotAcreage	2.37	1.40
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44

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					
2021	2.2103	25.4509	16.4881	0.0419	6.2300	1.0599	7.2899	2.5493	0.9897	3.1367	0.0000	4,298.5922	4,298.5922	0.7955	0.0000	4,318.4785
2022	4.8870	22.3308	25.5012	0.0489	0.8352	1.0256	1.8608	0.2239	0.9782	1.2021	0.0000	4,645.0078	4,645.0078	0.8271	0.0000	4,665.6859
Maximum	4.8870	25.4509	25.5012	0.0489	6.2300	1.0599	7.2899	2.5493	0.9897	3.1367	0.0000	4,645.0078	4,645.0078	0.8271	0.0000	4,665.6859

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					
2021	2.2103	25.4509	16.4881	0.0419	3.1209	1.0599	4.1808	0.9583	0.9897	1.6017	0.0000	4,298.5922	4,298.5922	0.7955	0.0000	4,318.4785
2022	4.8870	22.3308	25.5012	0.0489	0.7926	1.0256	1.8182	0.2135	0.9782	1.1917	0.0000	4,645.0078	4,645.0078	0.8271	0.0000	4,665.6859
Maximum	4.8870	25.4509	25.5012	0.0489	3.1209	1.0599	4.1808	0.9583	0.9897	1.6017	0.0000	4,645.0078	4,645.0078	0.8271	0.0000	4,665.6859

	ROG	NOx	CO	SO2	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	44.61	0.00	34.44	57.75	0.00	35.62	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

1	A1 Demolition	Demolition	8/6/2021	8/12/2021	5	20	Parking Structure
2	A2 Grading	Grading	8/13/2021	8/19/2021	5	4	Parking Structure
3	A3 Building Construction	Building Construction	8/20/2021	1/20/2022	5	110	Parking Structure
4	A4 Paving	Paving	1/1/2022	1/20/2022	5	14	
5	A5 Architectural Coating	Architectural Coating	1/1/2022	1/20/2022	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,191

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
A5 Architectural Coating	Air Compressors	1	6.00	78	0.48
A4 Paving	Cement and Mortar Mixers	1	6.00	9	0.56
A1 Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
A3 Building Construction	Cranes	1	6.00	231	0.29
A3 Building Construction	Forklifts	1	6.00	89	0.20
A3 Building Construction	Generator Sets	1	8.00	84	0.74
A4 Paving	Pavers	1	6.00	130	0.42
A4 Paving	Rollers	1	7.00	80	0.38
A1 Demolition	Rubber Tired Dozers	1	8.00	247	0.40
A2 Grading	Rubber Tired Dozers	1	6.00	247	0.40
A3 Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
A2 Grading	Graders	1	6.00	187	0.41
A2 Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
A4 Paving	Paving Equipment	1	8.00	132	0.36
A1 Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
A3 Building Construction	Welders	3	8.00	46	0.45
A4 Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
A1 Demolition	5	13.00	0.00	445.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A2 Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A3 Building Construction	7	43.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A4 Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A5 Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 A1 Demolition - 2021

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					4.8148	0.0000	4.8148	0.7290	0.0000	0.7290			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715		2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	4.8148	1.0409	5.8557	0.7290	0.9715	1.7005		2,322.7171	2,322.7171	0.5940		2,337.5658

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	0.1642	5.7231	1.6312	0.0165	1.2699	0.0181	1.2880	0.3227	0.0173	0.3400		1,846.4170	1,846.4170	0.1987		1,851.3852
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	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
Total	0.2173	5.7543	1.9956	0.0178	1.4152	0.0190	1.4342	0.3612	0.0182	0.3794		1,975.8752	1,975.8752	0.2015		1,980.9127

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					1.7839	0.0000	1.7839	0.2701	0.0000	0.2701			0.0000			0.0000
Off-Road	1.9930	19.6966	14.4925	0.0241		1.0409	1.0409		0.9715	0.9715	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658
Total	1.9930	19.6966	14.4925	0.0241	1.7839	1.0409	2.8248	0.2701	0.9715	1.2416	0.0000	2,322.7171	2,322.7171	0.5940		2,337.5658

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day			
	Hauling	0.1642	5.7231	1.6312	0.0165	1.1993	0.0181	1.2174	0.3053	0.0173	0.3226	1,846.4170	1,846.4170	0.1987
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	0.0531	0.0312	0.3644	1.3000e-003	0.1377	9.4000e-004	0.1387	0.0367	8.7000e-004	0.0375	129.4582	129.4582	2.7700e-003	129.5275
Total	0.2173	5.7543	1.9956	0.0178	1.3370	0.0190	1.3561	0.3420	0.0182	0.3602	1,975.8752	1,975.8752	0.2015	1,980.9127

3.3 A2 Grading - 2021

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					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869		1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	4.9143	0.6379	5.5522	2.5256	0.5869	3.1125		1,365.0648	1,365.0648	0.4415		1,376.1020

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	0.0327	0.0192	0.2242	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.6666	79.6666	1.7100e-003		79.7092
Total	0.0327	0.0192	0.2242	8.0000e-004	0.0894	5.8000e-004	0.0900	0.0237	5.3000e-004	0.0243		79.6666	79.6666	1.7100e-003		79.7092

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					1.8207	0.0000	1.8207	0.9357	0.0000	0.9357			0.0000			0.0000
Off-Road	1.2884	14.3307	6.3314	0.0141		0.6379	0.6379		0.5869	0.5869	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020
Total	1.2884	14.3307	6.3314	0.0141	1.8207	0.6379	2.4586	0.9357	0.5869	1.5226	0.0000	1,365.0648	1,365.0648	0.4415		1,376.1020

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	0.0327	0.0192	0.2242	8.0000e-004	0.0848	5.8000e-004	0.0853	0.0226	5.3000e-004	0.0231		79.6666	79.6666	1.7100e-003		79.7092
Total	0.0327	0.0192	0.2242	8.0000e-004	0.0848	5.8000e-004	0.0853	0.0226	5.3000e-004	0.0231		79.6666	79.6666	1.7100e-003		79.7092

3.4 A3 Building Construction - 2021

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	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573			2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608		2,001.2200	2,001.2200	0.3573			2,010.1517

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	0.0476	1.5911	0.4745	4.0900e-003	0.1086	3.4400e-003	0.1121	0.0313	3.2900e-003	0.0345		445.7213	445.7213	0.0376			446.6609
Worker	0.1757	0.1032	1.2052	4.2900e-003	0.4806	3.1100e-003	0.4838	0.1275	2.8600e-003	0.1303		428.2078	428.2078	9.1700e-003			428.4371
Total	0.2233	1.6943	1.6797	8.3800e-003	0.5893	6.5500e-003	0.5958	0.1587	6.1500e-003	0.1649		873.9291	873.9291	0.0468			875.0980

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517
Total	1.8125	13.6361	12.8994	0.0221		0.6843	0.6843		0.6608	0.6608	0.0000	2,001.2200	2,001.2200	0.3573		2,010.1517

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	0.0476	1.5911	0.4745	4.0900e-003	0.1040	3.4400e-003	0.1074	0.0301	3.2900e-003	0.0334		445.7213	445.7213	0.0376		446.6609
Worker	0.1757	0.1032	1.2052	4.2900e-003	0.4556	3.1100e-003	0.4587	0.1213	2.8600e-003	0.1242		428.2078	428.2078	9.1700e-003		428.4371
Total	0.2233	1.6943	1.6797	8.3800e-003	0.5595	6.5500e-003	0.5661	0.1514	6.1500e-003	0.1576		873.9291	873.9291	0.0468		875.0980

3.4 A3 Building Construction - 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					
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0448	1.5042	0.4575	4.0500e-003	0.1086	2.9900e-003	0.1116	0.0313	2.8600e-003	0.0341		441.3018	441.3018	0.0363		442.2102
Worker	0.1665	0.0935	1.1231	4.1300e-003	0.4806	3.0500e-003	0.4837	0.1275	2.8100e-003	0.1303		412.3609	412.3609	8.3200e-003		412.5689
Total	0.2113	1.5977	1.5806	8.1800e-003	0.5893	6.0400e-003	0.5953	0.1587	5.6700e-003	0.1644		853.6627	853.6627	0.0447		854.7791

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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581

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	0.0448	1.5042	0.4575	4.0500e-003	0.1040	2.9900e-003	0.1070	0.0301	2.8600e-003	0.0330		441.3018	441.3018	0.0363		442.2102
Worker	0.1665	0.0935	1.1231	4.1300e-003	0.4556	3.0500e-003	0.4586	0.1213	2.8100e-003	0.1241		412.3609	412.3609	8.3200e-003		412.5689
Total	0.2113	1.5977	1.5806	8.1800e-003	0.5595	6.0400e-003	0.5656	0.1514	5.6700e-003	0.1571		853.6627	853.6627	0.0447		854.7791

3.5 A4 Paving - 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					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608

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	0.0503	0.0283	0.3395	1.2500e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		124.6672	124.6672	2.5200e-003		124.7301
Total	0.0503	0.0283	0.3395	1.2500e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		124.6672	124.6672	2.5200e-003		124.7301

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	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608

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	0.0503	0.0283	0.3395	1.2500e-003	0.1377	9.2000e-004	0.1387	0.0367	8.5000e-004	0.0375		124.6672	124.6672	2.5200e-003		124.7301

Total	0.0503	0.0283	0.3395	1.2500e-003	0.1377	9.2000e-004	0.1387	0.0367	8.5000e-004	0.0375		124.6672	124.6672	2.5200e-003		124.7301
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3.6 A5 Architectural Coating - 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						
Archit. Coating	2.0497					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183			281.9062
Total	2.2542	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183			281.9062

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	0.0349	0.0196	0.2351	8.7000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		86.3081	86.3081	1.7400e-003			86.3516
Total	0.0349	0.0196	0.2351	8.7000e-004	0.1006	6.4000e-004	0.1012	0.0267	5.9000e-004	0.0273		86.3081	86.3081	1.7400e-003			86.3516

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	2.0497					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	2.2542	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.0349	0.0196	0.2351	8.7000e-004	0.0954	6.4000e-004	0.0960	0.0254	5.9000e-004	0.0260		86.3081	86.3081	1.7400e-003		86.3516
Total	0.0349	0.0196	0.2351	8.7000e-004	0.0954	6.4000e-004	0.0960	0.0254	5.9000e-004	0.0260		86.3081	86.3081	1.7400e-003		86.3516

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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
Enclosed Parking with Elevator	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
Enclosed Parking with Elevator	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
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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	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					
Enclosed Parking with Elevator	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					
Enclosed Parking with Elevator	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	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241
Unmitigated	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241

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	7.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7000e-004	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241
Total	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241

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	7.8600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0366					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.7000e-004	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241
Total	0.0454	1.0000e-004	0.0105	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0226	0.0226	6.0000e-005		0.0241

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Residences at 4440 Von Karman-Stand Alone Pkg Struct - Orange County, Annual

**Residences at 4440 Von Karman-Stand Alone Pkg Struct
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	103.18	1000sqft	1.40	103,177.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adj per the SCE 2019 Corporate Responsibility Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534 \cdot 25 \cdot 0.029 + 298 \cdot 0.00617 = 531.4363$ to avoid double counting.

Land Use - stand alone parking structure only this run

Construction Phase - anticipated schedule - stand alone parking structure

Grading - 112,000 CY offhaul for residential building, additional for utility work

Demolition -

Trips and VMT - haul truck trips for demo

Vehicle Trips - Trip rates per traffic study.

Woodstoves - no wood burning per SCAQMD Rule 445

Energy Use - Electricity adjusted per 2019 T24

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Construction Off-road Equipment Mitigation - Rule 403

Off-road Equipment - Demo is for 1.4 acre surface lot

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	NumDays	200.00	110.00
tblConstructionPhase	NumDays	10.00	14.00
tblConstructionPhase	PhaseEndDate	6/20/2024	1/20/2022
tblConstructionPhase	PhaseEndDate	3/2/2023	1/20/2022
tblConstructionPhase	PhaseEndDate	9/2/2021	8/12/2021
tblConstructionPhase	PhaseEndDate	11/25/2021	8/19/2021
tblConstructionPhase	PhaseEndDate	5/23/2024	1/20/2022
tblConstructionPhase	PhaseStartDate	5/24/2024	1/1/2022
tblConstructionPhase	PhaseStartDate	1/7/2022	8/20/2021
tblConstructionPhase	PhaseStartDate	10/15/2021	8/13/2021
tblConstructionPhase	PhaseStartDate	4/26/2024	1/1/2022
tblLandUse	LandUseSquareFeet	103,180.00	103,177.00
tblLandUse	LotAcreage	2.37	1.40
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44

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					
2021	0.1056	0.8371	0.7578	1.6100e-003	0.0558	0.0374	0.0932	0.0166	0.0360	0.0525	0.0000	138.8363	138.8363	0.0204	0.0000	139.3453
2022	0.0340	0.1565	0.1787	3.4000e-004	5.7400e-003	7.1800e-003	0.0129	1.5400e-003	6.8500e-003	8.3900e-003	0.0000	29.5986	29.5986	5.2500e-003	0.0000	29.7298
Maximum	0.1056	0.8371	0.7578	1.6100e-003	0.0558	0.0374	0.0932	0.0166	0.0360	0.0525	0.0000	138.8363	138.8363	0.0204	0.0000	139.3453

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					
2021	0.1056	0.8371	0.7578	1.6100e-003	0.0389	0.0374	0.0763	0.0111	0.0360	0.0470	0.0000	138.8362	138.8362	0.0204	0.0000	139.3452
2022	0.0340	0.1565	0.1787	3.4000e-004	5.4500e-003	7.1800e-003	0.0126	1.4700e-003	6.8500e-003	8.3200e-003	0.0000	29.5986	29.5986	5.2500e-003	0.0000	29.7298
Maximum	0.1056	0.8371	0.7578	1.6100e-003	0.0389	0.0374	0.0763	0.0111	0.0360	0.0470	0.0000	138.8362	138.8362	0.0204	0.0000	139.3452

	ROG	NOx	CO	SO2	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	27.94	0.00	16.21	30.79	0.00	9.16	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	8-6-2021	11-5-2021	0.5915	0.5915
2	11-6-2021	2-5-2022	0.5417	0.5417
		Highest	0.5915	0.5915

Total	8.2300e-003	1.0000e-005	1.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	145.7499	145.7499	7.9600e-003	1.6500e-003	146.4392
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	A1 Demolition	Demolition	8/6/2021	8/12/2021	5	20	Parking Structure
2	A2 Grading	Grading	8/13/2021	8/19/2021	5	4	Parking Structure
3	A3 Building Construction	Building Construction	8/20/2021	1/20/2022	5	110	Parking Structure
4	A4 Paving	Paving	1/1/2022	1/20/2022	5	14	
5	A5 Architectural Coating	Architectural Coating	1/1/2022	1/20/2022	5	14	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.4

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 6,191

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
A5 Architectural Coating	Air Compressors	1	6.00	78	0.48
A4 Paving	Cement and Mortar Mixers	1	6.00	9	0.56
A1 Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
A3 Building Construction	Cranes	1	6.00	231	0.29
A3 Building Construction	Forklifts	1	6.00	89	0.20
A3 Building Construction	Generator Sets	1	8.00	84	0.74
A4 Paving	Pavers	1	6.00	130	0.42

A4 Paving	Rollers	1	7.00	80	0.38
A1 Demolition	Rubber Tired Dozers	1	8.00	247	0.40
A2 Grading	Rubber Tired Dozers	1	6.00	247	0.40
A3 Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
A2 Grading	Graders	1	6.00	187	0.41
A2 Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
A4 Paving	Paving Equipment	1	8.00	132	0.36
A1 Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
A3 Building Construction	Welders	3	8.00	46	0.45
A4 Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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
A1 Demolition	5	13.00	0.00	445.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A2 Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A3 Building Construction	7	43.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A4 Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
A5 Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 A1 Demolition - 2021

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					0.0120	0.0000	0.0120	1.8200e-003	0.0000	1.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9800e-003	0.0492	0.0362	6.0000e-005		2.6000e-003	2.6000e-003		2.4300e-003	2.4300e-003	0.0000	5.2678	5.2678	1.3500e-003	0.0000	5.3015
Total	4.9800e-003	0.0492	0.0362	6.0000e-005	0.0120	2.6000e-003	0.0146	1.8200e-003	2.4300e-003	4.2500e-003	0.0000	5.2678	5.2678	1.3500e-003	0.0000	5.3015

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	4.0000e-004	0.0146	3.9700e-003	4.0000e-005	3.1100e-003	4.0000e-005	3.1600e-003	7.9000e-004	4.0000e-005	8.3000e-004	0.0000	4.2250	4.2250	4.5000e-004	0.0000	4.2361
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	1.2000e-004	8.0000e-005	9.3000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2981	0.2981	1.0000e-005	0.0000	0.2983
Total	5.2000e-004	0.0147	4.9000e-003	4.0000e-005	3.4700e-003	4.0000e-005	3.5200e-003	8.8000e-004	4.0000e-005	9.3000e-004	0.0000	4.5231	4.5231	4.6000e-004	0.0000	4.5344

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					4.4600e-003	0.0000	4.4600e-003	6.8000e-004	0.0000	6.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9800e-003	0.0492	0.0362	6.0000e-005		2.6000e-003	2.6000e-003		2.4300e-003	2.4300e-003	0.0000	5.2678	5.2678	1.3500e-003	0.0000	5.3015
Total	4.9800e-003	0.0492	0.0362	6.0000e-005	4.4600e-003	2.6000e-003	7.0600e-003	6.8000e-004	2.4300e-003	3.1100e-003	0.0000	5.2678	5.2678	1.3500e-003	0.0000	5.3015

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	4.0000e-004	0.0146	3.9700e-003	4.0000e-005	2.9400e-003	4.0000e-005	2.9900e-003	7.5000e-004	4.0000e-005	7.9000e-004	0.0000	4.2250	4.2250	4.5000e-004	0.0000	4.2361
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	1.2000e-004	8.0000e-005	9.3000e-004	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2981	0.2981	1.0000e-005	0.0000	0.2983
Total	5.2000e-004	0.0147	4.9000e-003	4.0000e-005	3.2800e-003	4.0000e-005	3.3300e-003	8.4000e-004	4.0000e-005	8.8000e-004	0.0000	4.5231	4.5231	4.6000e-004	0.0000	4.5344

3.3 A2 Grading - 2021

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					0.0123	0.0000	0.0123	6.3100e-003	0.0000	6.3100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0358	0.0158	4.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	3.0959	3.0959	1.0000e-003	0.0000	3.1210
Total	3.2200e-003	0.0358	0.0158	4.0000e-005	0.0123	1.5900e-003	0.0139	6.3100e-003	1.4700e-003	7.7800e-003	0.0000	3.0959	3.0959	1.0000e-003	0.0000	3.1210

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	7.0000e-005	5.0000e-005	5.7000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1834	0.1834	0.0000	0.0000	0.1835
Total	7.0000e-005	5.0000e-005	5.7000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1834	0.1834	0.0000	0.0000	0.1835

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					4.5500e-003	0.0000	4.5500e-003	2.3400e-003	0.0000	2.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2200e-003	0.0358	0.0158	4.0000e-005		1.5900e-003	1.5900e-003		1.4700e-003	1.4700e-003	0.0000	3.0959	3.0959	1.0000e-003	0.0000	3.1209
Total	3.2200e-003	0.0358	0.0158	4.0000e-005	4.5500e-003	1.5900e-003	6.1400e-003	2.3400e-003	1.4700e-003	3.8100e-003	0.0000	3.0959	3.0959	1.0000e-003	0.0000	3.1209

Mitigated Construction Off-Site

Vendor	2.2300e-003	0.0777	0.0218	2.0000e-004	5.1400e-003	1.6000e-004	5.3000e-003	1.4800e-003	1.5000e-004	1.6400e-003	0.0000	19.6924	19.6924	1.5900e-003	0.0000	19.7323
Worker	7.5600e-003	5.0800e-003	0.0593	2.1000e-004	0.0227	1.5000e-004	0.0228	6.0200e-003	1.4000e-004	6.1500e-003	0.0000	18.9308	18.9308	4.1000e-004	0.0000	18.9409
Total	9.7900e-003	0.0828	0.0811	4.1000e-004	0.0278	3.1000e-004	0.0281	7.5000e-003	2.9000e-004	7.7900e-003	0.0000	38.6232	38.6232	2.0000e-003	0.0000	38.6732

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	0.0870	0.6545	0.6192	1.0600e-003		0.0329	0.0329		0.0317	0.0317	0.0000	87.1428	87.1428	0.0156	0.0000	87.5317
Total	0.0870	0.6545	0.6192	1.0600e-003		0.0329	0.0329		0.0317	0.0317	0.0000	87.1428	87.1428	0.0156	0.0000	87.5317

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	2.2300e-003	0.0777	0.0218	2.0000e-004	4.9200e-003	1.6000e-004	5.0800e-003	1.4300e-003	1.5000e-004	1.5800e-003	0.0000	19.6924	19.6924	1.5900e-003	0.0000	19.7323
Worker	7.5600e-003	5.0800e-003	0.0593	2.1000e-004	0.0215	1.5000e-004	0.0216	5.7300e-003	1.4000e-004	5.8700e-003	0.0000	18.9308	18.9308	4.1000e-004	0.0000	18.9409
Total	9.7900e-003	0.0828	0.0811	4.1000e-004	0.0264	3.1000e-004	0.0267	7.1600e-003	2.9000e-004	7.4500e-003	0.0000	38.6232	38.6232	2.0000e-003	0.0000	38.6732

3.4 A3 Building Construction - 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					
Off-Road	0.0115	0.0875	0.0891	1.5000e-004		4.1200e-003	4.1200e-003		3.9800e-003	3.9800e-003	0.0000	12.7104	12.7104	2.2100e-003	0.0000	12.7657
Total	0.0115	0.0875	0.0891	1.5000e-004		4.1200e-003	4.1200e-003		3.9800e-003	3.9800e-003	0.0000	12.7104	12.7104	2.2100e-003	0.0000	12.7657

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	3.1000e-004	0.0107	3.0700e-003	3.0000e-005	7.5000e-004	2.0000e-005	7.7000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.8435	2.8435	2.2000e-004	0.0000	2.8491
Worker	1.0400e-003	6.7000e-004	8.0600e-003	3.0000e-005	3.3000e-003	2.0000e-005	3.3300e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.6585	2.6585	5.0000e-005	0.0000	2.6599
Total	1.3500e-003	0.0114	0.0111	6.0000e-005	4.0500e-003	4.0000e-005	4.1000e-003	1.1000e-003	4.0000e-005	1.1400e-003	0.0000	5.5020	5.5020	2.7000e-004	0.0000	5.5090

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	0.0115	0.0875	0.0891	1.5000e-004		4.1200e-003	4.1200e-003		3.9800e-003	3.9800e-003	0.0000	12.7104	12.7104	2.2100e-003	0.0000	12.7657
Total	0.0115	0.0875	0.0891	1.5000e-004		4.1200e-003	4.1200e-003		3.9800e-003	3.9800e-003	0.0000	12.7104	12.7104	2.2100e-003	0.0000	12.7657

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.1000e-004	0.0107	3.0700e-003	3.0000e-005	7.2000e-004	2.0000e-005	7.4000e-004	2.1000e-004	2.0000e-005	2.3000e-004	0.0000	2.8435	2.8435	2.2000e-004	0.0000	2.8491
Worker	1.0400e-003	6.7000e-004	8.0600e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.4000e-004	2.0000e-005	8.5000e-004	0.0000	2.6585	2.6585	5.0000e-005	0.0000	2.6599
Total	1.3500e-003	0.0114	0.0111	6.0000e-005	3.8500e-003	4.0000e-005	3.8900e-003	1.0500e-003	4.0000e-005	1.0800e-003	0.0000	5.5020	5.5020	2.7000e-004	0.0000	5.5090

3.5 A4 Paving - 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					
Off-Road	4.8100e-003	0.0474	0.0616	9.0000e-005		2.4300e-003	2.4300e-003		2.2400e-003	2.2400e-003	0.0000	8.2387	8.2387	2.6100e-003	0.0000	8.3040

Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8100e-003	0.0474	0.0616	9.0000e-005		2.4300e-003	2.4300e-003		2.2400e-003	2.2400e-003	0.0000	8.2387	8.2387	2.6100e-003	0.0000	8.3040

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	3.2000e-004	2.0000e-004	2.4400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8037	0.8037	2.0000e-005	0.0000	0.8042
Total	3.2000e-004	2.0000e-004	2.4400e-003	1.0000e-005	1.0000e-003	1.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	2.7000e-004	0.0000	0.8037	0.8037	2.0000e-005	0.0000	0.8042

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8100e-003	0.0474	0.0616	9.0000e-005		2.4300e-003	2.4300e-003		2.2400e-003	2.2400e-003	0.0000	8.2387	8.2387	2.6100e-003	0.0000	8.3040
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.8100e-003	0.0474	0.0616	9.0000e-005		2.4300e-003	2.4300e-003		2.2400e-003	2.2400e-003	0.0000	8.2387	8.2387	2.6100e-003	0.0000	8.3040

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	3.2000e-004	2.0000e-004	2.4400e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8037	0.8037	2.0000e-005	0.0000	0.8042
Total	3.2000e-004	2.0000e-004	2.4400e-003	1.0000e-005	9.5000e-004	1.0000e-005	9.5000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	0.8037	0.8037	2.0000e-005	0.0000	0.8042

3.6 A5 Architectural Coating - 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					
Archit. Coating	0.0144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902
Total	0.0158	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.4000e-004	1.6900e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5564	0.5564	1.0000e-005	0.0000	0.5567
Total	2.2000e-004	1.4000e-004	1.6900e-003	1.0000e-005	6.9000e-004	0.0000	7.0000e-004	1.8000e-004	0.0000	1.9000e-004	0.0000	0.5564	0.5564	1.0000e-005	0.0000	0.5567

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	0.0144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4300e-003	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902
Total	0.0158	9.8600e-003	0.0127	2.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	1.7873	1.7873	1.2000e-004	0.0000	1.7902

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	2.2000e-004	1.4000e-004	1.6900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5564	0.5564	1.0000e-005	0.0000	0.5567
Total	2.2000e-004	1.4000e-004	1.6900e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5564	0.5564	1.0000e-005	0.0000	0.5567

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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
Enclosed Parking with Elevator	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
Enclosed Parking with Elevator	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
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145.7473	145.7473	7.9500e-003	1.6500e-003	146.4365
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145.7473	145.7473	7.9500e-003	1.6500e-003	146.4365
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
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Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	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	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					
Enclosed Parking with Elevator	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			
Enclosed Parking with Elevator	604617	145.7473	7.9500e-003	1.6500e-003	146.4365
Total		145.7473	7.9500e-003	1.6500e-003	146.4365

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Enclosed Parking with Elevator	604617	145.7473	7.9500e-003	1.6500e-003	146.4365
Total		145.7473	7.9500e-003	1.6500e-003	146.4365

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	8.2300e-003	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Unmitigated	8.2300e-003	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	8.2200e-003	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.4300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.6700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003
Total	8.2200e-003	1.0000e-005	1.3100e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5600e-003	2.5600e-003	1.0000e-005	0.0000	2.7300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	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			
Enclosed Parking with Elevator	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			
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	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			
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
MT/yr					
Enclosed Parking with Elevator	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

Residences at 4440 Von Karman - Res Structure - Orange County, Summer

**Residences at 4440 Von Karman - Res Structure
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	274.02	1000sqft	1.30	274,017.00	0
Other Asphalt Surfaces	4.30	Acre	4.30	187,308.00	0
Parking Lot	2.90	Acre	2.90	126,324.00	0
City Park	0.50	Acre	1.80	21,780.00	0
Apartments Mid Rise	312.00	Dwelling Unit	1.30	565,452.00	892

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2024		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adj per the SCE 2019 Corporate Responsibility Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25 \times 0.029-298 \times 0.00617=531.4363$ to avoid double counting.

Land Use - Residential land uses

Construction Phase - anticipated schedule

Off-road Equipment - Demo is for 1.4 acre surface lot

Trips and VMT - haul truck trips for demo and excavation

Demolition -

Grading - 112,000 CY offhaul for residential building, additional for utility work

Vehicle Trips - Trip rates per traffic study. Trip % slightly modified due to invalid trip % error

Woodstoves - no wood burning per SCAQMD Rule 445

Energy Use - Electricity adjusted per 2019 T24

Construction Off-road Equipment Mitigation - Rule 403

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	NumDays	30.00	245.00
tblConstructionPhase	NumDays	300.00	306.00
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	PhaseEndDate	3/17/2022	2/9/2022
tblConstructionPhase	PhaseEndDate	3/31/2022	2/14/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	1/23/2023
tblConstructionPhase	PhaseEndDate	10/10/2024	3/26/2024
tblConstructionPhase	PhaseEndDate	11/7/2024	4/2/2024
tblConstructionPhase	PhaseEndDate	12/5/2024	4/2/2024
tblConstructionPhase	PhaseStartDate	2/18/2022	1/21/2022
tblConstructionPhase	PhaseStartDate	3/18/2022	2/10/2022
tblConstructionPhase	PhaseStartDate	5/13/2022	2/15/2022
tblConstructionPhase	PhaseStartDate	8/18/2023	1/24/2023
tblConstructionPhase	PhaseStartDate	10/11/2024	11/1/2023

tblConstructionPhase	PhaseStartDate	11/8/2024	11/1/2023
tblEnergyUse	T24E	179.76	167.18
tblFireplaces	NumberNoFireplace	31.20	46.80
tblFireplaces	NumberWood	15.60	0.00
tblGrading	MaterialExported	0.00	115,000.00
tblLandUse	LandUseSquareFeet	274,020.00	274,017.00
tblLandUse	LandUseSquareFeet	312,000.00	565,452.00
tblLandUse	LotAcreage	6.29	1.30
tblLandUse	LotAcreage	0.50	1.80
tblLandUse	LotAcreage	8.21	1.30
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	HaulingTripNumber	613.00	620.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	5.23
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	5.86	4.79
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	6.65	5.44
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	15.60	0.00
tblWoodstoves	NumberNoncatalytic	15.60	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	4.0941	52.5886	33.7277	0.1077	18.2675	1.6768	19.8813	9.9840	1.5442	11.4688	0.0000	11,092.8660	11,092.8660	2.4545	0.0000	11,154.2282
2023	38.7859	43.3165	51.3394	0.1419	21.0740	1.4430	22.5170	6.6686	1.3282	7.9968	0.0000	14,244.0841	14,244.0841	2.4360	0.0000	14,286.6088
2024	38.5257	33.9538	50.1573	0.1393	7.4669	1.1938	8.6607	1.9994	1.1162	3.1156	0.0000	13,988.7212	13,988.7212	1.6826	0.0000	14,030.7859
Maximum	38.7859	52.5886	51.3394	0.1419	21.0740	1.6768	22.5170	9.9840	1.5442	11.4688	0.0000	14,244.0841	14,244.0841	2.4545	0.0000	14,286.6088

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	4.0941	52.5886	33.7277	0.1077	6.8843	1.6768	8.4981	3.7301	1.5442	5.2149	0.0000	11,092.8660	11,092.8660	2.4545	0.0000	11,154.2282
2023	38.7859	43.3165	51.3394	0.1419	14.8564	1.4430	16.2994	4.2218	1.3282	5.5500	0.0000	14,244.0841	14,244.0841	2.4360	0.0000	14,286.6088
2024	38.5257	33.9538	50.1573	0.1393	7.0853	1.1938	8.2791	1.9058	1.1162	3.0220	0.0000	13,988.7212	13,988.7212	1.6826	0.0000	14,030.7859
Maximum	38.7859	52.5886	51.3394	0.1419	14.8564	1.6768	16.2994	4.2218	1.5442	5.5500	0.0000	14,244.0841	14,244.0841	2.4545	0.0000	14,286.6088

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	38.42	0.00	35.22	47.15	0.00	38.95	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

1	2A Demolition	Demolition	1/21/2022	2/9/2022	5	14	Residential Structure
2	2B Site Preparation	Site Preparation	2/10/2022	2/14/2022	5	3	Residential Structure
3	2C Grading	Grading	2/15/2022	1/23/2023	5	245	Residential Structure
4	2D Building Construction	Building Construction	1/24/2023	3/26/2024	5	306	Residential Structure
5	2E Paving	Paving	11/1/2023	4/2/2024	5	110	Residential Structure
6	2F Architectural Coating	Architectural Coating	11/1/2023	4/2/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.5

Residential Indoor: 1,145,040; Residential Outdoor: 381,680; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2A Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
2A Demolition	Excavators	3	8.00	158	0.38
2A Demolition	Rubber Tired Dozers	2	8.00	247	0.40
2B Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
2B Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2C Grading	Excavators	2	8.00	158	0.38
2C Grading	Graders	1	8.00	187	0.41
2C Grading	Rubber Tired Dozers	1	8.00	247	0.40
2C Grading	Scrapers	2	8.00	367	0.48
2C Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2D Building Construction	Cranes	1	7.00	231	0.29
2D Building Construction	Forklifts	3	8.00	89	0.20
2D Building Construction	Generator Sets	1	8.00	84	0.74
2D Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2D Building Construction	Welders	1	8.00	46	0.45
2E Paving	Pavers	2	8.00	130	0.42

2E Paving	Paving Equipment	2	8.00	132	0.36
2E Paving	Rollers	2	8.00	80	0.38
2F Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2A Demolition	6	15.00	0.00	620.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2B Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2C Grading	8	20.00	0.00	14,375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2D Building Construction	9	481.00	133.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2E Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2F Architectural Coating	1	96.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 2A Demolition - 2022

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
	lb/day										lb/day					
Fugitive Dust					9.4767	0.0000	9.4767	1.4349	0.0000	1.4349			0.0000			0.0000

Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	9.4767	1.2427	10.7194	1.4349	1.1553	2.5901		3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.3027	10.3448	3.1091	0.0329	0.7710	0.0306	0.8016	0.2111	0.0293	0.2403		3,682.4449	3,682.4449	0.3821		3,691.9963
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	0.0512	0.0297	0.4252	1.5200e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		151.9802	151.9802	3.0700e-003		152.0569
Total	0.3539	10.3744	3.5343	0.0344	0.9387	0.0316	0.9703	0.2555	0.0302	0.2858		3,834.4251	3,834.4251	0.3851		3,844.0533

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					3.5111	0.0000	3.5111	0.5316	0.0000	0.5316			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	3.5111	1.2427	4.7538	0.5316	1.1553	1.6869	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.3027	10.3448	3.1091	0.0329	0.7359	0.0306	0.7664	0.2024	0.0293	0.2317		3,682.4449	3,682.4449	0.3821		3,691.9963
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	0.0512	0.0297	0.4252	1.5200e-003	0.1589	1.0600e-003	0.1600	0.0423	9.8000e-004	0.0433		151.9802	151.9802	3.0700e-003		152.0569
Total	0.3539	10.3744	3.5343	0.0344	0.8948	0.0316	0.9264	0.2448	0.0302	0.2750		3,834.4251	3,834.4251	0.3851		3,844.0533

3.3 2B Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Worker	0.0614	0.0356	0.5103	1.8300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		182.3762	182.3762	3.6800e-003	182.4683
Total	0.0614	0.0356	0.5103	1.8300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		182.3762	182.3762	3.6800e-003	182.4683

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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	6.6936	1.6126	8.3061	3.6793	1.4836	5.1629	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0356	0.5103	1.8300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		182.3762	182.3762	3.6800e-003		182.4683
Total	0.0614	0.0356	0.5103	1.8300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		182.3762	182.3762	3.6800e-003		182.4683

3.4 2C 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					8.7264	0.0000	8.7264	3.6045	0.0000	3.6045			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.7264	1.6349	10.3613	3.6045	1.5041	5.1086		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.4011	13.7056	4.1192	0.0436	1.0757	0.0405	1.1162	0.2929	0.0388	0.3317		4,878.8152	4,878.8152	0.5062		4,891.4698
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	0.0682	0.0396	0.5670	2.0300e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		202.6403	202.6403	4.0900e-003		202.7426
Total	0.4693	13.7452	4.6862	0.0456	1.2992	0.0419	1.3412	0.3522	0.0401	0.3923		5,081.4555	5,081.4555	0.5103		5,094.2124

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					3.2331	0.0000	3.2331	1.3355	0.0000	1.3355			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.2331	1.6349	4.8680	1.3355	1.5041	2.8396	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.4011	13.7056	4.1192	0.0436	1.0259	0.0405	1.0664	0.2807	0.0388	0.3195		4,878.8152	4,878.8152	0.5062		4,891.4698
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	0.0682	0.0396	0.5670	2.0300e-003	0.2119	1.4200e-003	0.2133	0.0564	1.3100e-003	0.0577		202.6403	202.6403	4.0900e-003		202.7426
Total	0.4693	13.7452	4.6862	0.0456	1.2378	0.0419	1.2797	0.3371	0.0401	0.3772		5,081.4555	5,081.4555	0.5103		5,094.2124

3.4 2C 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					8.7264	0.0000	8.7264	3.6045	0.0000	3.6045			0.0000		0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621			1.4245	1.4245		1.3105	1.3105	6,011.4777	6,011.4777	1.9442	6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	8.7264	1.4245	10.1509	3.6045	1.3105	4.9151	6,011.4777	6,011.4777	1.9442	6,060.0836	

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	0.2750	8.7649	3.9231	0.0417	12.1241	0.0171	12.1412	3.0048	0.0164	3.0212		4,685.5612	4,685.5612	0.4881		4,697.7627
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	0.0646	0.0359	0.5287	1.9500e-003	0.2236	1.3900e-003	0.2250	0.0593	1.2800e-003	0.0606		194.8499	194.8499	3.7100e-003		194.9427
Total	0.3396	8.8009	4.4519	0.0436	12.3476	0.0185	12.3661	3.0641	0.0177	3.0818		4,880.4110	4,880.4110	0.4918		4,892.7054

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					3.2331	0.0000	3.2331	1.3355	0.0000	1.3355			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621			1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442	6,060.0836

Total	3.3217	34.5156	28.0512	0.0621	3.2331	1.4245	4.6576	1.3355	1.3105	2.6460	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
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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	0.2750	8.7649	3.9231	0.0417	11.4114	0.0171	11.4285	2.8299	0.0164	2.8463		4,685.5612	4,685.5612	0.4881		4,697.7627
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	0.0646	0.0359	0.5287	1.9500e-003	0.2119	1.3900e-003	0.2133	0.0564	1.2800e-003	0.0577		194.8499	194.8499	3.7100e-003		194.9427
Total	0.3396	8.8009	4.4519	0.0436	11.6232	0.0185	11.6418	2.8863	0.0177	2.9040		4,880.4110	4,880.4110	0.4918		4,892.7054

3.5 2D 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	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	0.2540	8.9095	3.0496	0.0314	0.8497	0.0107	0.8604	0.2445	0.0103	0.2548		3,432.2851	3,432.2851	0.2524		3,438.5961
Worker	1.5538	0.8641	12.7160	0.0470	5.3765	0.0335	5.4100	1.4259	0.0309	1.4567		4,686.1400	4,686.1400	0.0893		4,688.3720
Total	1.8078	9.7735	15.7656	0.0784	6.2262	0.0443	6.2704	1.6704	0.0411	1.7115		8,118.4251	8,118.4251	0.3417		8,126.9682

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	0.0000	0.0000
Vendor	0.2540	8.9095	3.0496	0.0314	0.8133	0.0107	0.8240	0.2356	0.0103	0.2458		3,432.2851	3,432.2851	0.2524		3,438.5961
Worker	1.5538	0.8641	12.7160	0.0470	5.0960	0.0335	5.1295	1.3570	0.0309	1.3879		4,686.1400	4,686.1400	0.0893		4,688.3720
Total	1.8078	9.7735	15.7656	0.0784	5.9093	0.0443	5.9536	1.5926	0.0411	1.6337		8,118.4251	8,118.4251	0.3417		8,126.9682

3.5 2D 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.2454	8.7982	2.9863	0.0311	0.8497	0.0105	0.8602	0.2445	0.0100	0.2546		3,405.0203	3,405.0203	0.2487		3,411.2364
Worker	1.4767	0.7869	11.8368	0.0451	5.3765	0.0330	5.4094	1.4259	0.0303	1.4562		4,500.4430	4,500.4430	0.0811		4,502.4698

Total	1.7221	9.5851	14.8230	0.0762	6.2262	0.0435	6.2696	1.6704	0.0404	1.7107		7,905.4633	7,905.4633	0.3297		7,913.7062
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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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.2454	8.7982	2.9863	0.0311	0.8133	0.0105	0.8238	0.2356	0.0100	0.2456		3,405.0203	3,405.0203	0.2487		3,411.2364
Worker	1.4767	0.7869	11.8368	0.0451	5.0960	0.0330	5.1290	1.3570	0.0303	1.3874		4,500.4430	4,500.4430	0.0811		4,502.4698
Total	1.7221	9.5851	14.8230	0.0762	5.9093	0.0435	5.9528	1.5926	0.0404	1.6330		7,905.4633	7,905.4633	0.3297		7,913.7062

3.6 2E Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2042	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0485	0.0270	0.3966	1.4600e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		146.1374	146.1374	2.7800e-003		146.2070
Total	0.0485	0.0270	0.3966	1.4600e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		146.1374	146.1374	2.7800e-003		146.2070

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2042	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0485	0.0270	0.3966	1.4600e-003	0.1589	1.0500e-003	0.1600	0.0423	9.6000e-004	0.0433		146.1374	146.1374	2.7800e-003			146.2070
Total	0.0485	0.0270	0.3966	1.4600e-003	0.1589	1.0500e-003	0.1600	0.0423	9.6000e-004	0.0433		146.1374	146.1374	2.7800e-003			146.2070

3.6 2E 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963	
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.1597	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140			2,225.3963

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	0.0461	0.0245	0.3691	1.4100e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		140.3465	140.3465	2.5300e-003			140.4097
Total	0.0461	0.0245	0.3691	1.4100e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		140.3465	140.3465	2.5300e-003			140.4097

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140			2,225.3963
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.1597	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140			2,225.3963

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	0.0461	0.0245	0.3691	1.4100e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		140.3465	140.3465	2.5300e-003		140.4097
Total	0.0461	0.0245	0.3691	1.4100e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		140.3465	140.3465	2.5300e-003		140.4097

3.7 2F Architectural Coating - 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	33.6509					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	33.8426	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	0.3101	0.1725	2.5379	9.3800e-003	1.0731	6.6900e-003	1.0798	0.2846	6.1600e-003	0.2907		935.2795	935.2795	0.0178		935.7250
Total	0.3101	0.1725	2.5379	9.3800e-003	1.0731	6.6900e-003	1.0798	0.2846	6.1600e-003	0.2907		935.2795	935.2795	0.0178		935.7250

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	33.6509					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	33.8426	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	0.3101	0.1725	2.5379	9.3800e-003	1.0171	6.6900e-003	1.0238	0.2708	6.1600e-003	0.2770		935.2795	935.2795	0.0178		935.7250
Total	0.3101	0.1725	2.5379	9.3800e-003	1.0171	6.6900e-003	1.0238	0.2708	6.1600e-003	0.2770		935.2795	935.2795	0.0178		935.7250

3.7 2F Architectural Coating - 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						
Archit. Coating	33.6509					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159			281.8443
Total	33.8317	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159			281.8443

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	0.2947	0.1571	2.3624	9.0000e-003	1.0731	6.5800e-003	1.0796	0.2846	6.0500e-003	0.2906		898.2173	898.2173	0.0162			898.6218
Total	0.2947	0.1571	2.3624	9.0000e-003	1.0731	6.5800e-003	1.0796	0.2846	6.0500e-003	0.2906		898.2173	898.2173	0.0162			898.6218

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	33.6509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	33.8317	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.2947	0.1571	2.3624	9.0000e-003	1.0171	6.5800e-003	1.0237	0.2708	6.0500e-003	0.2769		898.2173	898.2173	0.0162		898.6218
Total	0.2947	0.1571	2.3624	9.0000e-003	1.0171	6.5800e-003	1.0237	0.2708	6.0500e-003	0.2769		898.2173	898.2173	0.0162		898.6218

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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	1.8441	6.1873	20.0253	0.0774	7.3847	0.0545	7.4391	1.9747	0.0505	2.0252		7,881.8742	7,881.8742	0.3157		7,889.7676
Unmitigated	2.2090	7.8325	30.3454	0.1256	12.2962	0.0848	12.3810	3.2881	0.0787	3.3667		12,779.7604	12,779.7604	0.4866		12,791.9253

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,697.28	1,631.76	1494.48	5,665,449	3,402,482
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,697.28	1,631.76	1,494.48	5,665,449	3,402,482

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
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	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
Apartments Mid Rise	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

City Park	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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	lb/day										lb/day					
NaturalGas Mitigated	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209
NaturalGas Unmitigated	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

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					
Apartments Mid Rise	9768.13	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

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					
Apartments Mid Rise	9.76813	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

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	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989
Unmitigated	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989

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	1.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5148	4.3992	1.8720	0.0281		0.3557	0.3557		0.3557	0.3557	0.0000	5,616.0000	5,616.0000	0.1076	0.1030	5,649.3731
Landscaping	0.7763	0.2967	25.7583	1.3600e-003		0.1427	0.1427		0.1427	0.1427		46.4100	46.4100	0.0446		47.5258
Total	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989

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	1.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5148	4.3992	1.8720	0.0281		0.3557	0.3557		0.3557	0.3557	0.0000	5,616.0000	5,616.0000	0.1076	0.1030	5,649.3731
Landscaping	0.7763	0.2967	25.7583	1.3600e-003		0.1427	0.1427		0.1427	0.1427		46.4100	46.4100	0.0446		47.5258
Total	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Residences at 4440 Von Karman - Res Structure - Orange County, Winter

**Residences at 4440 Von Karman - Res Structure
Orange County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	274.02	1000sqft	1.30	274,017.00	0
Other Asphalt Surfaces	4.30	Acre	4.30	187,308.00	0
Parking Lot	2.90	Acre	2.90	126,324.00	0
City Park	0.50	Acre	1.80	21,780.00	0
Apartments Mid Rise	312.00	Dwelling Unit	1.30	565,452.00	892

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8	Operational Year	2024		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adj per the SCE 2019 Corporate Responsibility Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534-25*0.029-298*0.00617=531.4363$ to avoid double counting.

- Land Use - Residential land uses
- Construction Phase - anticipated schedule
- Off-road Equipment - Demo is for 1.4 acre surface lot
- Trips and VMT - haul truck trips for demo and excavation

Demolition -

Grading - 112,000 CY offhaul for residential building, additional for utility work

Vehicle Trips - Trip rates per traffic study. Trip % slightly modified due to invalid trip % error

Woodstoves - no wood burning per SCAQMD Rule 445

Energy Use - Electricity adjusted per 2019 T24

Construction Off-road Equipment Mitigation - Rule 403

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	NumDays	30.00	245.00
tblConstructionPhase	NumDays	300.00	306.00
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	PhaseEndDate	3/17/2022	2/9/2022
tblConstructionPhase	PhaseEndDate	3/31/2022	2/14/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	1/23/2023
tblConstructionPhase	PhaseEndDate	10/10/2024	3/26/2024
tblConstructionPhase	PhaseEndDate	11/7/2024	4/2/2024
tblConstructionPhase	PhaseEndDate	12/5/2024	4/2/2024
tblConstructionPhase	PhaseStartDate	2/18/2022	1/21/2022
tblConstructionPhase	PhaseStartDate	3/18/2022	2/10/2022
tblConstructionPhase	PhaseStartDate	5/13/2022	2/15/2022
tblConstructionPhase	PhaseStartDate	8/18/2023	1/24/2023
tblConstructionPhase	PhaseStartDate	10/11/2024	11/1/2023

tblConstructionPhase	PhaseStartDate	11/8/2024	11/1/2023
tblEnergyUse	T24E	179.76	167.18
tblFireplaces	NumberNoFireplace	31.20	46.80
tblFireplaces	NumberWood	15.60	0.00
tblGrading	MaterialExported	0.00	115,000.00
tblLandUse	LandUseSquareFeet	274,020.00	274,017.00
tblLandUse	LandUseSquareFeet	312,000.00	565,452.00
tblLandUse	LotAcreage	6.29	1.30
tblLandUse	LotAcreage	0.50	1.80
tblLandUse	LotAcreage	8.21	1.30
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	HaulingTripNumber	613.00	620.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	5.23
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	5.86	4.79
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	6.65	5.44
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	15.60	0.00
tblWoodstoves	NumberNoncatalytic	15.60	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	4.1132	52.7413	33.8769	0.1069	18.2675	1.6776	19.8813	9.9840	1.5449	11.4688	0.0000	11,007.6215	11,007.6215	2.4649	0.0000	11,069.2438
2023	39.0636	43.3645	50.3255	0.1381	21.0740	1.4436	22.5176	6.6686	1.3288	7.9974	0.0000	13,852.4827	13,852.4827	2.4444	0.0000	13,895.1159
2024	38.7966	33.9993	49.2093	0.1356	7.4669	1.1944	8.6613	1.9994	1.1168	3.1162	0.0000	13,610.4718	13,610.4718	1.6868	0.0000	13,652.6416
Maximum	39.0636	52.7413	50.3255	0.1381	21.0740	1.6776	22.5176	9.9840	1.5449	11.4688	0.0000	13,852.4827	13,852.4827	2.4649	0.0000	13,895.1159

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	4.1132	52.7413	33.8769	0.1069	6.8843	1.6776	8.4981	3.7301	1.5449	5.2149	0.0000	11,007.6215	11,007.6215	2.4649	0.0000	11,069.2438
2023	39.0636	43.3645	50.3255	0.1381	14.8564	1.4436	16.3000	4.2218	1.3288	5.5505	0.0000	13,852.4827	13,852.4827	2.4444	0.0000	13,895.1158
2024	38.7966	33.9993	49.2093	0.1356	7.0853	1.1944	8.2797	1.9058	1.1168	3.0226	0.0000	13,610.4718	13,610.4718	1.6868	0.0000	13,652.6416
Maximum	39.0636	52.7413	50.3255	0.1381	14.8564	1.6776	16.3000	4.2218	1.5449	5.5505	0.0000	13,852.4827	13,852.4827	2.4649	0.0000	13,895.1158

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	38.42	0.00	35.22	47.15	0.00	38.94	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	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989
Energy	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209
Mobile	2.1675	8.0508	28.8992	0.1201	12.2962	0.0851	12.3812	3.2881	0.0789	3.3670		12,223.5689	12,223.5689	0.4848		12,235.6884
Total	15.9833	13.6469	56.9125	0.1552	12.2962	0.6562	12.9524	3.2881	0.6501	3.9382	0.0000	19,035.1706	19,035.1706	0.6591	0.1240	19,088.6081

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	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989
Energy	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209
Mobile	1.8091	6.3023	19.4666	0.0739	7.3847	0.0547	7.4394	1.9747	0.0508	2.0255		7,532.5310	7,532.5310	0.3175		7,540.4682
Total	15.6249	11.8984	47.4800	0.1091	7.3847	0.6259	8.0106	1.9747	0.6219	2.5966	0.0000	14,344.1328	14,344.1328	0.4918	0.1240	14,393.3879

	ROG	NOx	CO	SO2	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	2.24	12.81	16.57	29.70	39.94	4.62	38.15	39.94	4.33	34.06	0.00	24.64	24.64	25.38	0.00	24.60

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
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1	2A Demolition	Demolition	1/21/2022	2/9/2022	5	14	Residential Structure
2	2B Site Preparation	Site Preparation	2/10/2022	2/14/2022	5	3	Residential Structure
3	2C Grading	Grading	2/15/2022	1/23/2023	5	245	Residential Structure
4	2D Building Construction	Building Construction	1/24/2023	3/26/2024	5	306	Residential Structure
5	2E Paving	Paving	11/1/2023	4/2/2024	5	110	Residential Structure
6	2F Architectural Coating	Architectural Coating	11/1/2023	4/2/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.5

Residential Indoor: 1,145,040; Residential Outdoor: 381,680; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2A Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
2A Demolition	Excavators	3	8.00	158	0.38
2A Demolition	Rubber Tired Dozers	2	8.00	247	0.40
2B Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
2B Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2C Grading	Excavators	2	8.00	158	0.38
2C Grading	Graders	1	8.00	187	0.41
2C Grading	Rubber Tired Dozers	1	8.00	247	0.40
2C Grading	Scrapers	2	8.00	367	0.48
2C Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2D Building Construction	Cranes	1	7.00	231	0.29
2D Building Construction	Forklifts	3	8.00	89	0.20
2D Building Construction	Generator Sets	1	8.00	84	0.74
2D Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2D Building Construction	Welders	1	8.00	46	0.45
2E Paving	Pavers	2	8.00	130	0.42

2E Paving	Paving Equipment	2	8.00	132	0.36
2E Paving	Rollers	2	8.00	80	0.38
2F Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2A Demolition	6	15.00	0.00	620.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2B Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2C Grading	8	20.00	0.00	14,375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2D Building Construction	9	481.00	133.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2E Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2F Architectural Coating	1	96.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Replace Ground Cover
- Water Exposed Area
- Water Unpaved Roads
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

3.2 2A Demolition - 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					9.4767	0.0000	9.4767	1.4349	0.0000	1.4349			0.0000			0.0000

Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	9.4767	1.2427	10.7194	1.4349	1.1553	2.5901		3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.3102	10.4570	3.2554	0.0324	0.7710	0.0311	0.8021	0.2111	0.0298	0.2408		3,626.2891	3,626.2891	0.3901		3,636.0411
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	0.0581	0.0326	0.3918	1.4400e-003	0.1677	1.0600e-003	0.1687	0.0445	9.8000e-004	0.0455		143.8468	143.8468	2.9000e-003		143.9194
Total	0.3683	10.4896	3.6472	0.0338	0.9387	0.0322	0.9709	0.2555	0.0308	0.2863		3,770.1359	3,770.1359	0.3930		3,779.9604

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					3.5111	0.0000	3.5111	0.5316	0.0000	0.5316			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	3.5111	1.2427	4.7538	0.5316	1.1553	1.6869	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

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	0.3102	10.4570	3.2554	0.0324	0.7359	0.0311	0.7670	0.2024	0.0298	0.2322		3,626.2891	3,626.2891	0.3901		3,636.0411
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	0.0581	0.0326	0.3918	1.4400e-003	0.1589	1.0600e-003	0.1600	0.0423	9.8000e-004	0.0433		143.8468	143.8468	2.9000e-003		143.9194
Total	0.3683	10.4896	3.6472	0.0338	0.8948	0.0322	0.9270	0.2448	0.0308	0.2755		3,770.1359	3,770.1359	0.3930		3,779.9604

3.3 2B Site Preparation - 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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	18.0663	1.6126	19.6788	9.9307	1.4836	11.4143		3,686.0619	3,686.0619	1.1922		3,715.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Category	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	0.0000
Worker	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003	172.7033
Total	0.0697	0.0391	0.4701	1.7300e-003	0.2012	1.2800e-003	0.2025	0.0534	1.1800e-003	0.0545		172.6162	172.6162	3.4800e-003	172.7033

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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	6.6936	1.6126	8.3061	3.6793	1.4836	5.1629	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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	0.0697	0.0391	0.4701	1.7300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		172.6162	172.6162	3.4800e-003		172.7033
Total	0.0697	0.0391	0.4701	1.7300e-003	0.1907	1.2800e-003	0.1920	0.0508	1.1800e-003	0.0520		172.6162	172.6162	3.4800e-003		172.7033

3.4 2C 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					8.7264	0.0000	8.7264	3.6045	0.0000	3.6045			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	8.7264	1.6349	10.3613	3.6045	1.5041	5.1086		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.4110	13.8543	4.3131	0.0429	1.0757	0.0413	1.1169	0.2929	0.0395	0.3324		4,804.4152	4,804.4152	0.5168		4,817.3355
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	0.0774	0.0435	0.5224	1.9200e-003	0.2236	1.4200e-003	0.2250	0.0593	1.3100e-003	0.0606		191.7958	191.7958	3.8700e-003		191.8925
Total	0.4884	13.8978	4.8354	0.0448	1.2992	0.0427	1.3419	0.3522	0.0408	0.3930		4,996.2110	4,996.2110	0.5207		5,009.2280

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					3.2331	0.0000	3.2331	1.3355	0.0000	1.3355			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	3.2331	1.6349	4.8680	1.3355	1.5041	2.8396	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.4110	13.8543	4.3131	0.0429	1.0259	0.0413	1.0671	0.2807	0.0395	0.3202		4,804.4152	4,804.4152	0.5168		4,817.3355
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	0.0774	0.0435	0.5224	1.9200e-003	0.2119	1.4200e-003	0.2133	0.0564	1.3100e-003	0.0577		191.7958	191.7958	3.8700e-003		191.8925
Total	0.4884	13.8978	4.8354	0.0448	1.2378	0.0427	1.2804	0.3371	0.0408	0.3779		4,996.2110	4,996.2110	0.5207		5,009.2280

3.4 2C 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					8.7264	0.0000	8.7264	3.6045	0.0000	3.6045			0.0000		0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621			1.4245	1.4245		1.3105	1.3105	6,011.4777	6,011.4777	1.9442	6,060.0836
Total	3.3217	34.5156	28.0512	0.0621	8.7264	1.4245	10.1509	3.6045	1.3105	4.9151	6,011.4777	6,011.4777	1.9442	6,060.0836	

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	0.2818	8.8094	4.0569	0.0411	12.1241	0.0177	12.1418	3.0048	0.0170	3.0217		4,614.7055	4,614.7055	0.4967		4,627.1219
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	0.0395	0.4864	1.8500e-003	0.2236	1.3900e-003	0.2250	0.0593	1.2800e-003	0.0606		184.4317	184.4317	3.5100e-003		184.5194
Total	0.3553	8.8489	4.5432	0.0429	12.3476	0.0191	12.3667	3.0641	0.0182	3.0823		4,799.1371	4,799.1371	0.5002		4,811.6412

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					3.2331	0.0000	3.2331	1.3355	0.0000	1.3355			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621			1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442	6,060.0836

Total	3.3217	34.5156	28.0512	0.0621	3.2331	1.4245	4.6576	1.3355	1.3105	2.6460	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
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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	0.2818	8.8094	4.0569	0.0411	11.4114	0.0177	11.4291	2.8299	0.0170	2.8468		4,614.7055	4,614.7055	0.4967		4,627.1219
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	0.0395	0.4864	1.8500e-003	0.2119	1.3900e-003	0.2133	0.0564	1.2800e-003	0.0577		184.4317	184.4317	3.5100e-003		184.5194
Total	0.3553	8.8489	4.5432	0.0429	11.6232	0.0191	11.6424	2.8863	0.0182	2.9045		4,799.1371	4,799.1371	0.5002		4,811.6412

3.5 2D 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	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	0.2668	8.8584	3.2892	0.0306	0.8497	0.0114	0.8611	0.2445	0.0109	0.2554		3,349.0631	3,349.0631	0.2629		3,355.6343
Worker	1.7691	0.9491	11.6975	0.0445	5.3765	0.0335	5.4100	1.4259	0.0309	1.4567		4,435.5818	4,435.5818	0.0844		4,437.6905
Total	2.0358	9.8075	14.9867	0.0751	6.2262	0.0449	6.2711	1.6704	0.0418	1.7121		7,784.6448	7,784.6448	0.3472		7,793.3248

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	0.0000	0.0000
Vendor	0.2668	8.8584	3.2892	0.0306	0.8133	0.0114	0.8247	0.2356	0.0109	0.2465		3,349.0631	3,349.0631	0.2629		3,355.6343
Worker	1.7691	0.9491	11.6975	0.0445	5.0960	0.0335	5.1295	1.3570	0.0309	1.3879		4,435.5818	4,435.5818	0.0844		4,437.6905
Total	2.0358	9.8075	14.9867	0.0751	5.9093	0.0449	5.9542	1.5926	0.0418	1.6344		7,784.6448	7,784.6448	0.3472		7,793.3248

3.5 2D 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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.2577	8.7486	3.2187	0.0304	0.8497	0.0111	0.8608	0.2445	0.0106	0.2551		3,322.8713	3,322.8713	0.2585		3,329.3325
Worker	1.6868	0.8642	10.8776	0.0427	5.3765	0.0330	5.4094	1.4259	0.0303	1.4562		4,259.8614	4,259.8614	0.0765		4,261.7745

Total	1.9445	9.6128	14.0963	0.0730	6.2262	0.0441	6.2702	1.6704	0.0409	1.7113		7,582.7327	7,582.7327	0.3350		7,591.1069
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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	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

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	0.2577	8.7486	3.2187	0.0304	0.8133	0.0111	0.8244	0.2356	0.0106	0.2462		3,322.8713	3,322.8713	0.2585		3,329.3325
Worker	1.6868	0.8642	10.8776	0.0427	5.0960	0.0330	5.1290	1.3570	0.0303	1.3874		4,259.8614	4,259.8614	0.0765		4,261.7745
Total	1.9445	9.6128	14.0963	0.0730	5.9093	0.0441	5.9534	1.5926	0.0409	1.6335		7,582.7327	7,582.7327	0.3350		7,591.1069

3.6 2E Paving - 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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2042	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0552	0.0296	0.3648	1.3900e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		138.3238	138.3238	2.6300e-003		138.3895
Total	0.0552	0.0296	0.3648	1.3900e-003	0.1677	1.0500e-003	0.1687	0.0445	9.6000e-004	0.0454		138.3238	138.3238	2.6300e-003		138.3895

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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2042	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0552	0.0296	0.3648	1.3900e-003	0.1589	1.0500e-003	0.1600	0.0423	9.6000e-004	0.0433		138.3238	138.3238	2.6300e-003		138.3895
Total	0.0552	0.0296	0.3648	1.3900e-003	0.1589	1.0500e-003	0.1600	0.0423	9.6000e-004	0.0433		138.3238	138.3238	2.6300e-003		138.3895

3.6 2E 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1597	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0526	0.0270	0.3392	1.3300e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		132.8439	132.8439	2.3900e-003		132.9036
Total	0.0526	0.0270	0.3392	1.3300e-003	0.1677	1.0300e-003	0.1687	0.0445	9.5000e-004	0.0454		132.8439	132.8439	2.3900e-003		132.9036

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.1715					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1597	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963

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	0.0526	0.0270	0.3392	1.3300e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		132.8439	132.8439	2.3900e-003		132.9036
Total	0.0526	0.0270	0.3392	1.3300e-003	0.1589	1.0300e-003	0.1600	0.0423	9.5000e-004	0.0433		132.8439	132.8439	2.3900e-003		132.9036

3.7 2F Architectural Coating - 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	33.6509					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	33.8426	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	0.3531	0.1894	2.3346	8.8700e-003	1.0731	6.6900e-003	1.0798	0.2846	6.1600e-003	0.2907		885.2720	885.2720	0.0168		885.6929
Total	0.3531	0.1894	2.3346	8.8700e-003	1.0731	6.6900e-003	1.0798	0.2846	6.1600e-003	0.2907		885.2720	885.2720	0.0168		885.6929

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	33.6509					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	33.8426	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	0.3531	0.1894	2.3346	8.8700e-003	1.0171	6.6900e-003	1.0238	0.2708	6.1600e-003	0.2770		885.2720	885.2720	0.0168		885.6929
Total	0.3531	0.1894	2.3346	8.8700e-003	1.0171	6.6900e-003	1.0238	0.2708	6.1600e-003	0.2770		885.2720	885.2720	0.0168		885.6929

3.7 2F Architectural Coating - 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					
Archit. Coating	33.6509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	33.8317	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	0.3367	0.1725	2.1710	8.5200e-003	1.0731	6.5800e-003	1.0796	0.2846	6.0500e-003	0.2906		850.2010	850.2010	0.0153		850.5828
Total	0.3367	0.1725	2.1710	8.5200e-003	1.0731	6.5800e-003	1.0796	0.2846	6.0500e-003	0.2906		850.2010	850.2010	0.0153		850.5828

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	33.6509					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	33.8317	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	0.3367	0.1725	2.1710	8.5200e-003	1.0171	6.5800e-003	1.0237	0.2708	6.0500e-003	0.2769		850.2010	850.2010	0.0153		850.5828
Total	0.3367	0.1725	2.1710	8.5200e-003	1.0171	6.5800e-003	1.0237	0.2708	6.0500e-003	0.2769		850.2010	850.2010	0.0153		850.5828

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive 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	1.8091	6.3023	19.4666	0.0739	7.3847	0.0547	7.4394	1.9747	0.0508	2.0255		7,532.5310	7,532.5310	0.3175		7,540.4682
Unmitigated	2.1675	8.0508	28.8992	0.1201	12.2962	0.0851	12.3812	3.2881	0.0789	3.3670		12,223.5689	12,223.5689	0.4848		12,235.6884

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,697.28	1,631.76	1494.48	5,665,449	3,402,482
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,697.28	1,631.76	1,494.48	5,665,449	3,402,482

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
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	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
Apartments Mid Rise	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

City Park	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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	lb/day										lb/day					
NaturalGas Mitigated	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209
NaturalGas Unmitigated	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

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					
Apartments Mid Rise	9768.13	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

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					
Apartments Mid Rise	9.76813	0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.1053	0.9002	0.3831	5.7500e-003		0.0728	0.0728		0.0728	0.0728		1,149.1918	1,149.1918	0.0220	0.0211	1,156.0209

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	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989
Unmitigated	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989

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	1.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5148	4.3992	1.8720	0.0281		0.3557	0.3557		0.3557	0.3557	0.0000	5,616.0000	5,616.0000	0.1076	0.1030	5,649.3731
Landscaping	0.7763	0.2967	25.7583	1.3600e-003		0.1427	0.1427		0.1427	0.1427		46.4100	46.4100	0.0446		47.5258
Total	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989

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	1.0141					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	11.4052					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5148	4.3992	1.8720	0.0281		0.3557	0.3557		0.3557	0.3557	0.0000	5,616.0000	5,616.0000	0.1076	0.1030	5,649.3731
Landscaping	0.7763	0.2967	25.7583	1.3600e-003		0.1427	0.1427		0.1427	0.1427		46.4100	46.4100	0.0446		47.5258
Total	13.7104	4.6959	27.6303	0.0294		0.4984	0.4984		0.4984	0.4984	0.0000	5,662.4100	5,662.4100	0.1523	0.1030	5,696.8989

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

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

Residences at 4440 Von Karman - Res Structure - Orange County, Annual

**Residences at 4440 Von Karman - Res Structure
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	274.02	1000sqft	1.30	274,017.00	0
Other Asphalt Surfaces	4.30	Acre	4.30	187,308.00	0
Parking Lot	2.90	Acre	2.90	126,324.00	0
City Park	0.50	Acre	1.80	21,780.00	0
Apartments Mid Rise	312.00	Dwelling Unit	1.30	565,452.00	892

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	531.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Adj per the SCE 2019 Corporate Responsibility Report. The report provides intensity factor of CO2e, the CO2 intensity factor is calculated as $534 - 25 * 0.029 - 298 * 0.00617 = 531.4363$ to avoid double counting.

Land Use - Residential land uses

Construction Phase - anticipated schedule

Off-road Equipment - Demo is for 1.4 acre surface lot

Trips and VMT - haul truck trips for demo and excavation

Demolition -

Grading - 112,000 CY offhaul for residential building, additional for utility work

Vehicle Trips - Trip rates per traffic study. Trip % slightly modified due to invalid trip % error

Woodstoves - no wood burning per SCAQMD Rule 445

Energy Use - Electricity adjusted per 2019 T24

Construction Off-road Equipment Mitigation - Rule 403

Mobile Land Use Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	14.00
tblConstructionPhase	NumDays	10.00	3.00
tblConstructionPhase	NumDays	30.00	245.00
tblConstructionPhase	NumDays	300.00	306.00
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	NumDays	20.00	110.00
tblConstructionPhase	PhaseEndDate	3/17/2022	2/9/2022
tblConstructionPhase	PhaseEndDate	3/31/2022	2/14/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	1/23/2023
tblConstructionPhase	PhaseEndDate	10/10/2024	3/26/2024
tblConstructionPhase	PhaseEndDate	11/7/2024	4/2/2024
tblConstructionPhase	PhaseEndDate	12/5/2024	4/2/2024
tblConstructionPhase	PhaseStartDate	2/18/2022	1/21/2022
tblConstructionPhase	PhaseStartDate	3/18/2022	2/10/2022
tblConstructionPhase	PhaseStartDate	5/13/2022	2/15/2022
tblConstructionPhase	PhaseStartDate	8/18/2023	1/24/2023
tblConstructionPhase	PhaseStartDate	10/11/2024	11/1/2023

tblConstructionPhase	PhaseStartDate	11/8/2024	11/1/2023
tblEnergyUse	T24E	179.76	167.18
tblFireplaces	NumberNoFireplace	31.20	46.80
tblFireplaces	NumberWood	15.60	0.00
tblGrading	MaterialExported	0.00	115,000.00
tblLandUse	LandUseSquareFeet	274,020.00	274,017.00
tblLandUse	LandUseSquareFeet	312,000.00	565,452.00
tblLandUse	LotAcreage	6.29	1.30
tblLandUse	LotAcreage	0.50	1.80
tblLandUse	LotAcreage	8.21	1.30
tblProjectCharacteristics	CO2IntensityFactor	702.44	531.44
tblTripsAndVMT	HaulingTripNumber	613.00	620.00
tblVehicleTrips	HO_TTP	40.60	41.00
tblVehicleTrips	HS_TTP	19.20	19.00
tblVehicleTrips	HW_TTP	40.20	40.00
tblVehicleTrips	ST_TR	6.39	5.23
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	5.86	4.79
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	6.65	5.44
tblVehicleTrips	WD_TR	1.89	0.00
tblWoodstoves	NumberCatalytic	15.60	0.00
tblWoodstoves	NumberNoncatalytic	15.60	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	0.4952	6.3738	4.0675	0.0129	1.2674	0.2034	1.4707	0.4816	0.1874	0.6690	0.0000	1,201.3866	1,201.3866	0.2662	0.0000	1,208.0414
2023	1.2071	3.5711	4.5056	0.0142	1.2488	0.1150	1.3638	0.2941	0.1078	0.4018	0.0000	1,304.7909	1,304.7909	0.1376	0.0000	1,308.2297
2024	1.2839	1.0863	1.5804	4.3300e-003	0.2305	0.0384	0.2688	0.0618	0.0359	0.0977	0.0000	394.2570	394.2570	0.0490	0.0000	395.4826
Maximum	1.2839	6.3738	4.5056	0.0142	1.2674	0.2034	1.4707	0.4816	0.1874	0.6690	0.0000	1,304.7909	1,304.7909	0.2662	0.0000	1,308.2297

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	0.4952	6.3738	4.0675	0.0129	0.5587	0.2034	0.7621	0.2028	0.1874	0.3902	0.0000	1,201.3859	1,201.3859	0.2662	0.0000	1,208.0406
2023	1.2071	3.5711	4.5056	0.0142	0.9650	0.1150	1.0800	0.2437	0.1078	0.3514	0.0000	1,304.7904	1,304.7904	0.1376	0.0000	1,308.2292
2024	1.2839	1.0863	1.5804	4.3300e-003	0.2187	0.0384	0.2571	0.0589	0.0359	0.0948	0.0000	394.2569	394.2569	0.0490	0.0000	395.4824
Maximum	1.2839	6.3738	4.5056	0.0142	0.9650	0.2034	1.0800	0.2437	0.1874	0.3902	0.0000	1,304.7904	1,304.7904	0.2662	0.0000	1,308.2292

	ROG	NOx	CO	SO2	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	36.56	0.00	32.36	39.65	0.00	28.42	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	1-21-2022	4-20-2022	1.6637	1.6637
2	4-21-2022	7-20-2022	1.8422	1.8422
3	7-21-2022	10-20-2022	1.8637	1.8637
4	10-21-2022	1-20-2023	1.7980	1.7980

5	1-21-2023	4-20-2023	0.9123	0.9123
6	4-21-2023	7-20-2023	0.8950	0.8950
7	7-21-2023	10-20-2023	0.9067	0.9067
8	10-21-2023	1-20-2024	2.2625	2.2625
9	1-21-2024	4-20-2024	1.8317	1.8317
		Highest	2.2625	2.2625

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	2.3700	0.0921	3.2432	5.2000e-004		0.0223	0.0223		0.0223	0.0223	0.0000	68.9472	68.9472	6.2800e-003	1.1700e-003	69.4521
Energy	0.0192	0.1643	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	886.0300	886.0300	0.0416	0.0113	890.4507
Mobile	0.3747	1.4548	5.2157	0.0216	2.1489	0.0151	2.1640	0.5755	0.0140	0.5895	0.0000	1,996.3675	1,996.3675	0.0781	0.0000	1,998.3188
Waste						0.0000	0.0000		0.0000	0.0000	29.1414	0.0000	29.1414	1.7222	0.0000	72.1965
Water						0.0000	0.0000		0.0000	0.0000	6.4492	99.7231	106.1722	0.6678	0.0168	127.8644
Total	2.7639	1.7112	8.5288	0.0232	2.1489	0.0507	2.1995	0.5755	0.0496	0.6250	35.5905	3,051.0677	3,086.6582	2.5160	0.0293	3,158.2825

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	2.3700	0.0921	3.2432	5.2000e-004		0.0223	0.0223		0.0223	0.0223	0.0000	68.9472	68.9472	6.2800e-003	1.1700e-003	69.4521
Energy	0.0192	0.1643	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	886.0300	886.0300	0.0416	0.0113	890.4507
Mobile	0.3105	1.1369	3.4955	0.0133	1.2906	9.7000e-003	1.3002	0.3456	8.9900e-003	0.3546	0.0000	1,231.2447	1,231.2447	0.0509	0.0000	1,232.5180
Waste						0.0000	0.0000		0.0000	0.0000	14.5707	0.0000	14.5707	0.8611	0.0000	36.0983
Water						0.0000	0.0000		0.0000	0.0000	5.1593	84.7710	89.9303	0.5345	0.0135	107.3076
Total	2.6997	1.3933	6.8086	0.0149	1.2906	0.0453	1.3358	0.3456	0.0446	0.3902	19.7300	2,270.9928	2,290.7228	1.4945	0.0260	2,335.8267

	ROG	NOx	CO	SO2	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	2.32	18.58	20.17	35.76	39.94	10.64	39.27	39.94	10.09	37.58	44.56	25.57	25.79	40.60	11.27	26.04

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	2A Demolition	Demolition	1/21/2022	2/9/2022	5	14	Residential Structure
2	2B Site Preparation	Site Preparation	2/10/2022	2/14/2022	5	3	Residential Structure
3	2C Grading	Grading	2/15/2022	1/23/2023	5	245	Residential Structure
4	2D Building Construction	Building Construction	1/24/2023	3/26/2024	5	306	Residential Structure
5	2E Paving	Paving	11/1/2023	4/2/2024	5	110	Residential Structure
6	2F Architectural Coating	Architectural Coating	11/1/2023	4/2/2024	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 8.5

Residential Indoor: 1,145,040; Residential Outdoor: 381,680; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
2A Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
2A Demolition	Excavators	3	8.00	158	0.38
2A Demolition	Rubber Tired Dozers	2	8.00	247	0.40
2B Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
2B Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
2C Grading	Excavators	2	8.00	158	0.38
2C Grading	Graders	1	8.00	187	0.41
2C Grading	Rubber Tired Dozers	1	8.00	247	0.40
2C Grading	Scrapers	2	8.00	367	0.48
2C Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
2D Building Construction	Cranes	1	7.00	231	0.29
2D Building Construction	Forklifts	3	8.00	89	0.20
2D Building Construction	Generator Sets	1	8.00	84	0.74
2D Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
2D Building Construction	Welders	1	8.00	46	0.45
2E Paving	Pavers	2	8.00	130	0.42
2E Paving	Paving Equipment	2	8.00	132	0.36
2E Paving	Rollers	2	8.00	80	0.38
2F Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
2A Demolition	6	15.00	0.00	620.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2B Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2C Grading	8	20.00	0.00	14,375.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2D Building Construction	9	481.00	133.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2E Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
2F Architectural Coating	1	96.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Worker	3.6000e-004	2.3000e-004	2.8100e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.9274	0.9274	2.0000e-005	0.0000	0.9279
Total	2.5000e-003	0.0748	0.0250	2.4000e-004	6.4600e-003	2.3000e-004	6.6900e-003	1.7700e-003	2.2000e-004	1.9700e-003	0.0000	24.1622	24.1622	2.4700e-003	0.0000	24.2239

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					0.0246	0.0000	0.0246	3.7200e-003	0.0000	3.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.1800	0.1442	2.7000e-004		8.7000e-003	8.7000e-003		8.0900e-003	8.0900e-003	0.0000	23.7931	23.7931	6.6800e-003	0.0000	23.9602
Total	0.0185	0.1800	0.1442	2.7000e-004	0.0246	8.7000e-003	0.0333	3.7200e-003	8.0900e-003	0.0118	0.0000	23.7931	23.7931	6.6800e-003	0.0000	23.9602

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	2.1400e-003	0.0746	0.0222	2.3000e-004	5.0700e-003	2.2000e-004	5.2900e-003	1.4000e-003	2.1000e-004	1.6000e-003	0.0000	23.2348	23.2348	2.4500e-003	0.0000	23.2960
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	3.6000e-004	2.3000e-004	2.8100e-003	1.0000e-005	1.0900e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.9274	0.9274	2.0000e-005	0.0000	0.9279
Total	2.5000e-003	0.0748	0.0250	2.4000e-004	6.1600e-003	2.3000e-004	6.3900e-003	1.6900e-003	2.2000e-004	1.9000e-003	0.0000	24.1622	24.1622	2.4700e-003	0.0000	24.2239

3.3 2B Site Preparation - 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					0.0271	0.0000	0.0271	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7600e-003	0.0496	0.0296	6.0000e-005		2.4200e-003	2.4200e-003		2.2300e-003	2.2300e-003	0.0000	5.0159	5.0159	1.6200e-003	0.0000	5.0565
Total	4.7600e-003	0.0496	0.0296	6.0000e-005	0.0271	2.4200e-003	0.0295	0.0149	2.2300e-003	0.0171	0.0000	5.0159	5.0159	1.6200e-003	0.0000	5.0565

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	9.0000e-005	6.0000e-005	7.2000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2385	0.2385	0.0000	0.0000	0.2386
Total	9.0000e-005	6.0000e-005	7.2000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2385	0.2385	0.0000	0.0000	0.2386

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0100	0.0000	0.0100	5.5200e-003	0.0000	5.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7600e-003	0.0496	0.0296	6.0000e-005		2.4200e-003	2.4200e-003		2.2300e-003	2.2300e-003	0.0000	5.0159	5.0159	1.6200e-003	0.0000	5.0565
Total	4.7600e-003	0.0496	0.0296	6.0000e-005	0.0100	2.4200e-003	0.0125	5.5200e-003	2.2300e-003	7.7500e-003	0.0000	5.0159	5.0159	1.6200e-003	0.0000	5.0565

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	9.0000e-005	6.0000e-005	7.2000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2385	0.2385	0.0000	0.0000	0.2386
Total	9.0000e-005	6.0000e-005	7.2000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2385	0.2385	0.0000	0.0000	0.2386

3.4 2C 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					1.0208	0.0000	1.0208	0.4151	0.0000	0.4151	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4150	4.4476	3.3253	7.1100e-003		0.1872	0.1872		0.1722	0.1722	0.0000	624.4212	624.4212	0.2020	0.0000	629.4699

Total	0.4150	4.4476	3.3253	7.1100e-003	1.0208	0.1872	1.2080	0.4151	0.1722	0.5873	0.0000	624.4212	624.4212	0.2020	0.0000	629.4699
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0464	1.6165	0.4814	4.9600e-003	0.1212	4.6700e-003	0.1259	0.0331	4.4700e-003	0.0375	0.0000	503.5297	503.5297	0.0531	0.0000	504.8560
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	7.9400e-003	5.1100e-003	0.0613	2.2000e-004	0.0251	1.6000e-004	0.0253	6.6800e-003	1.5000e-004	6.8300e-003	0.0000	20.2260	20.2260	4.1000e-004	0.0000	20.2363
Total	0.0544	1.6216	0.5428	5.1800e-003	0.1464	4.8300e-003	0.1512	0.0397	4.6200e-003	0.0444	0.0000	523.7557	523.7557	0.0535	0.0000	525.0923

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					0.3782	0.0000	0.3782	0.1538	0.0000	0.1538	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4150	4.4476	3.3253	7.1100e-003		0.1872	0.1872		0.1722	0.1722	0.0000	624.4204	624.4204	0.2020	0.0000	629.4692
Total	0.4150	4.4476	3.3253	7.1100e-003	0.3782	0.1872	0.5654	0.1538	0.1722	0.3260	0.0000	624.4204	624.4204	0.2020	0.0000	629.4692

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	0.0464	1.6165	0.4814	4.9600e-003	0.1156	4.6700e-003	0.1203	0.0317	4.4700e-003	0.0362	0.0000	503.5297	503.5297	0.0531	0.0000	504.8560
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	7.9400e-003	5.1100e-003	0.0613	2.2000e-004	0.0238	1.6000e-004	0.0240	6.3600e-003	1.5000e-004	6.5000e-003	0.0000	20.2260	20.2260	4.1000e-004	0.0000	20.2363
Total	0.0544	1.6216	0.5428	5.1800e-003	0.1395	4.8300e-003	0.1443	0.0381	4.6200e-003	0.0427	0.0000	523.7557	523.7557	0.0535	0.0000	525.0923

3.4 2C 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	tons/yr										MT/yr					
Fugitive Dust					0.3795	0.0000	0.3795	0.0625	0.0000	0.0625	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2761	0.2244	5.0000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	43.6282	43.6282	0.0141	0.0000	43.9809
Total	0.0266	0.2761	0.2244	5.0000e-004	0.3795	0.0114	0.3909	0.0625	0.0105	0.0730	0.0000	43.6282	43.6282	0.0141	0.0000	43.9809

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	2.2200e-003	0.0717	0.0319	3.3000e-004	0.0950	1.4000e-004	0.0952	0.0236	1.3000e-004	0.0237	0.0000	33.7894	33.7894	3.5700e-003	0.0000	33.8786
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	5.3000e-004	3.2000e-004	3.9900e-003	2.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3589	1.3589	3.0000e-005	0.0000	1.3595
Total	2.7500e-003	0.0721	0.0359	3.5000e-004	0.0968	1.5000e-004	0.0970	0.0240	1.4000e-004	0.0242	0.0000	35.1483	35.1483	3.6000e-003	0.0000	35.2382

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					0.1406	0.0000	0.1406	0.0232	0.0000	0.0232	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.2761	0.2244	5.0000e-004		0.0114	0.0114		0.0105	0.0105	0.0000	43.6281	43.6281	0.0141	0.0000	43.9809
Total	0.0266	0.2761	0.2244	5.0000e-004	0.1406	0.0114	0.1520	0.0232	0.0105	0.0337	0.0000	43.6281	43.6281	0.0141	0.0000	43.9809

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	2.2200e-003	0.0717	0.0319	3.3000e-004	0.0895	1.4000e-004	0.0896	0.0222	1.3000e-004	0.0223	0.0000	33.7894	33.7894	3.5700e-003	0.0000	33.8786
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	5.3000e-004	3.2000e-004	3.9900e-003	2.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3589	1.3589	3.0000e-005	0.0000	1.3595

Total	2.7500e-003	0.0721	0.0359	3.5000e-004	0.0911	1.5000e-004	0.0913	0.0226	1.4000e-004	0.0228	0.0000	35.1483	35.1483	3.6000e-003	0.0000	35.2382
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3.5 2D 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	0.1919	1.7550	1.9818	3.2900e-003		0.0854	0.0854		0.0803	0.0803	0.0000	282.8018	282.8018	0.0673	0.0000	284.4836
Total	0.1919	1.7550	1.9818	3.2900e-003		0.0854	0.0854		0.0803	0.0803	0.0000	282.8018	282.8018	0.0673	0.0000	284.4836

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	0.0317	1.0971	0.3877	3.7900e-003	0.1021	1.3400e-003	0.1035	0.0295	1.2800e-003	0.0307	0.0000	376.0050	376.0050	0.0285	0.0000	376.7163
Worker	0.1929	0.1189	1.4638	5.5100e-003	0.6442	4.0900e-003	0.6483	0.1711	3.7700e-003	0.1749	0.0000	498.3916	498.3916	9.4800e-003	0.0000	498.6286
Total	0.2246	1.2159	1.8515	9.3000e-003	0.7464	5.4300e-003	0.7518	0.2005	5.0500e-003	0.2056	0.0000	874.3966	874.3966	0.0379	0.0000	875.3449

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	0.1919	1.7550	1.9818	3.2900e-003		0.0854	0.0854		0.0803	0.0803	0.0000	282.8015	282.8015	0.0673	0.0000	284.4833
Total	0.1919	1.7550	1.9818	3.2900e-003		0.0854	0.0854		0.0803	0.0803	0.0000	282.8015	282.8015	0.0673	0.0000	284.4833

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	0.0317	1.0971	0.3877	3.7900e-003	0.0978	1.3400e-003	0.0991	0.0284	1.2800e-003	0.0297	0.0000	376.0050	376.0050	0.0285	0.0000	376.7163
Worker	0.1929	0.1189	1.4638	5.5100e-003	0.6107	4.0900e-003	0.6148	0.1629	3.7700e-003	0.1666	0.0000	498.3916	498.3916	9.4800e-003	0.0000	498.6286
Total	0.2246	1.2159	1.8515	9.3000e-003	0.7085	5.4300e-003	0.7139	0.1912	5.0500e-003	0.1963	0.0000	874.3966	874.3966	0.0379	0.0000	875.3449

3.5 2D 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	0.0456	0.4168	0.5012	8.4000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	71.8732	71.8732	0.0170	0.0000	72.2981
Total	0.0456	0.4168	0.5012	8.4000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	71.8732	71.8732	0.0170	0.0000	72.2981

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	7.7700e-003	0.2752	0.0964	9.5000e-004	0.0260	3.3000e-004	0.0263	7.4900e-003	3.2000e-004	7.8000e-003	0.0000	94.7882	94.7882	7.1200e-003	0.0000	94.9661
Worker	0.0466	0.0275	0.3460	1.3400e-003	0.1637	1.0200e-003	0.1647	0.0435	9.4000e-004	0.0444	0.0000	121.6231	121.6231	2.1900e-003	0.0000	121.6777
Total	0.0544	0.3028	0.4424	2.2900e-003	0.1896	1.3500e-003	0.1910	0.0510	1.2600e-003	0.0522	0.0000	216.4112	216.4112	9.3100e-003	0.0000	216.6438

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	0.0456	0.4168	0.5012	8.4000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	71.8731	71.8731	0.0170	0.0000	72.2980
Total	0.0456	0.4168	0.5012	8.4000e-004		0.0190	0.0190		0.0179	0.0179	0.0000	71.8731	71.8731	0.0170	0.0000	72.2980

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	7.7700e-003	0.2752	0.0964	9.5000e-004	0.0249	3.3000e-004	0.0252	7.2100e-003	3.2000e-004	7.5300e-003	0.0000	94.7882	94.7882	7.1200e-003	0.0000	94.9661
Worker	0.0466	0.0275	0.3460	1.3400e-003	0.1552	1.0200e-003	0.1562	0.0414	9.4000e-004	0.0423	0.0000	121.6231	121.6231	2.1900e-003	0.0000	121.6777
Total	0.0544	0.3028	0.4424	2.2900e-003	0.1800	1.3500e-003	0.1814	0.0486	1.2600e-003	0.0499	0.0000	216.4112	216.4112	9.3100e-003	0.0000	216.6438

3.6 2E Paving - 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	0.0222	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0578	43.0578	0.0139	0.0000	43.4059
Paving	3.6900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0259	0.2191	0.3136	4.9000e-004		0.0110	0.0110		0.0101	0.0101	0.0000	43.0578	43.0578	0.0139	0.0000	43.4059

Unmitigated Construction Off-Site

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	1.0600e-003	6.5000e-004	8.0400e-003	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.2000e-004	0.0000	2.7390	2.7390	5.0000e-005	0.0000	2.7403
Total	1.0600e-003	6.5000e-004	8.0400e-003	3.0000e-005	3.3600e-003	2.0000e-005	3.3800e-003	8.9000e-004	2.0000e-005	9.2000e-004	0.0000	2.7390	2.7390	5.0000e-005	0.0000	2.7403

3.6 2E 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	0.0331	0.3191	0.4900	7.6000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	67.0889	67.0889	0.0217	0.0000	67.6313
Paving	5.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0388	0.3191	0.4900	7.6000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	67.0889	67.0889	0.0217	0.0000	67.6313

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	9.3000e-004	0.0117	5.0000e-005	5.5200e-003	3.0000e-005	5.5500e-003	1.4600e-003	3.0000e-005	1.5000e-003	0.0000	4.0987	4.0987	7.0000e-005	0.0000	4.1005
Total	1.5700e-003	9.3000e-004	0.0117	5.0000e-005	5.5200e-003	3.0000e-005	5.5500e-003	1.4600e-003	3.0000e-005	1.5000e-003	0.0000	4.0987	4.0987	7.0000e-005	0.0000	4.1005

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	0.0331	0.3191	0.4900	7.6000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	67.0888	67.0888	0.0217	0.0000	67.6313
Paving	5.7400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0388	0.3191	0.4900	7.6000e-004		0.0157	0.0157		0.0144	0.0144	0.0000	67.0888	67.0888	0.0217	0.0000	67.6313

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5700e-003	9.3000e-004	0.0117	5.0000e-005	5.2300e-003	3.0000e-005	5.2600e-003	1.3900e-003	3.0000e-005	1.4300e-003	0.0000	4.0987	4.0987	7.0000e-005	0.0000	4.1005
Total	1.5700e-003	9.3000e-004	0.0117	5.0000e-005	5.2300e-003	3.0000e-005	5.2600e-003	1.3900e-003	3.0000e-005	1.4300e-003	0.0000	4.0987	4.0987	7.0000e-005	0.0000	4.1005

3.7 2F Architectural Coating - 2023

Unmitigated Construction On-Site

Off-Road	4.1200e-003	0.0280	0.0389	6.0000e-005		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	5.4895	5.4895	3.3000e-004	0.0000	5.4977
Total	0.7276	0.0280	0.0389	6.0000e-005		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	5.4895	5.4895	3.3000e-004	0.0000	5.4977

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	6.7800e-003	4.1800e-003	0.0515	1.9000e-004	0.0215	1.4000e-004	0.0216	5.7300e-003	1.3000e-004	5.8600e-003	0.0000	17.5297	17.5297	3.3000e-004	0.0000	17.5381
Total	6.7800e-003	4.1800e-003	0.0515	1.9000e-004	0.0215	1.4000e-004	0.0216	5.7300e-003	1.3000e-004	5.8600e-003	0.0000	17.5297	17.5297	3.3000e-004	0.0000	17.5381

3.7 2F Architectural Coating - 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					
Archit. Coating	1.1273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0600e-003	0.0408	0.0606	1.0000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	8.5534	8.5534	4.8000e-004	0.0000	8.5654
Total	1.1334	0.0408	0.0606	1.0000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	8.5534	8.5534	4.8000e-004	0.0000	8.5654

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	5.9300e-003	0.0746	2.9000e-004	0.0353	2.2000e-004	0.0355	9.3800e-003	2.0000e-004	9.5800e-003	0.0000	26.2316	26.2316	4.7000e-004	0.0000	26.2434
Total	0.0101	5.9300e-003	0.0746	2.9000e-004	0.0353	2.2000e-004	0.0355	9.3800e-003	2.0000e-004	9.5800e-003	0.0000	26.2316	26.2316	4.7000e-004	0.0000	26.2434

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	1.1273					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0600e-003	0.0408	0.0606	1.0000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	8.5534	8.5534	4.8000e-004	0.0000	8.5654
Total	1.1334	0.0408	0.0606	1.0000e-004		2.0400e-003	2.0400e-003		2.0400e-003	2.0400e-003	0.0000	8.5534	8.5534	4.8000e-004	0.0000	8.5654

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	5.9300e-003	0.0746	2.9000e-004	0.0335	2.2000e-004	0.0337	8.9200e-003	2.0000e-004	9.1300e-003	0.0000	26.2316	26.2316	4.7000e-004	0.0000	26.2434
Total	0.0101	5.9300e-003	0.0746	2.9000e-004	0.0335	2.2000e-004	0.0337	8.9200e-003	2.0000e-004	9.1300e-003	0.0000	26.2316	26.2316	4.7000e-004	0.0000	26.2434

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Diversity

Improve Destination Accessibility

Integrate Below Market Rate Housing

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Mitigated	0.3105	1.1369	3.4955	0.0133	1.2906	9.7000e-003	1.3002	0.3456	8.9900e-003	0.3546	0.0000	1,231.2447	1,231.2447	0.0509	0.0000	1,232.5180
Unmitigated	0.3747	1.4548	5.2157	0.0216	2.1489	0.0151	2.1640	0.5755	0.0140	0.5895	0.0000	1,996.3675	1,996.3675	0.0781	0.0000	1,998.3188

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated
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Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,697.28	1,631.76	1494.48	5,665,449	3,402,482
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,697.28	1,631.76	1,494.48	5,665,449	3,402,482

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
Apartments Mid Rise	14.70	5.90	8.70	40.00	19.00	41.00	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	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
Apartments Mid Rise	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
City Park	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Enclosed Parking with Elevator	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Other Asphalt Surfaces	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877
Parking Lot	0.565244	0.042904	0.209304	0.108392	0.014546	0.005773	0.026273	0.017831	0.001792	0.001509	0.004953	0.000602	0.000877

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	695.7684	695.7684	0.0380	7.8600e-003	699.0585
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	695.7684	695.7684	0.0380	7.8600e-003	699.0585
NaturalGas Mitigated	0.0192	0.1643	0.0699	1.0500e-003			0.0133	0.0133		0.0133	0.0133	0.0000	190.2616	190.2616	3.6500e-003	3.4900e-003	191.3922
NaturalGas Unmitigated	0.0192	0.1643	0.0699	1.0500e-003			0.0133	0.0133		0.0133	0.0133	0.0000	190.2616	190.2616	3.6500e-003	3.4900e-003	191.3922

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						
Apartments Mid Rise	3.56537e+006	0.0192	0.1643	0.0699	1.0500e-003			0.0133	0.0133		0.0133	0.0133	0.0000	190.2616	190.2616	3.6500e-003	3.4900e-003	191.3922
City Park	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0192	0.1643	0.0699	1.0500e-003			0.0133	0.0133		0.0133	0.0133	0.0000	190.2616	190.2616	3.6500e-003	3.4900e-003	191.3922

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					
Apartments Mid Rise	3.56537e+006	0.0192	0.1643	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.2616	190.2616	3.6500e-003	3.4900e-003	191.3922
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0192	0.1643	0.0699	1.0500e-003		0.0133	0.0133		0.0133	0.0133	0.0000	190.2616	190.2616	3.6500e-003	3.4900e-003	191.3922

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.23637e+006	298.0355	0.0163	3.3600e-003	299.4448
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.60574e+006	387.0750	0.0211	4.3700e-003	388.9053
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44213.4	10.6580	5.8000e-004	1.2000e-004	10.7084
Total		695.7684	0.0380	7.8500e-003	699.0585

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.23637e+006	298.0355	0.0163	3.3600e-003	299.4448
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	1.60574e+006	387.0750	0.0211	4.3700e-003	388.9053
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44213.4	10.6580	5.8000e-004	1.2000e-004	10.7084
Total		695.7684	0.0380	7.8500e-003	699.0585

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	2.3700	0.0921	3.2432	5.2000e-004		0.0223	0.0223		0.0223	0.0223	0.0000	68.9472	68.9472	6.2800e-003	1.1700e-003	69.4521
Unmitigated	2.3700	0.0921	3.2432	5.2000e-004		0.0223	0.0223		0.0223	0.0223	0.0000	68.9472	68.9472	6.2800e-003	1.1700e-003	69.4521

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.4400e-003	0.0550	0.0234	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	63.6844	63.6844	1.2200e-003	1.1700e-003	64.0628
Landscaping	0.0970	0.0371	3.2198	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2628	5.2628	5.0600e-003	0.0000	5.3893
Total	2.3700	0.0921	3.2432	5.2000e-004		0.0223	0.0223		0.0223	0.0223	0.0000	68.9472	68.9472	6.2800e-003	1.1700e-003	69.4521

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1851					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0815					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.4400e-003	0.0550	0.0234	3.5000e-004		4.4500e-003	4.4500e-003		4.4500e-003	4.4500e-003	0.0000	63.6844	63.6844	1.2200e-003	1.1700e-003	64.0628
Landscaping	0.0970	0.0371	3.2198	1.7000e-004		0.0178	0.0178		0.0178	0.0178	0.0000	5.2628	5.2628	5.0600e-003	0.0000	5.3893
Total	2.3700	0.0921	3.2432	5.2000e-004		0.0223	0.0223		0.0223	0.0223	0.0000	68.9472	68.9472	6.2800e-003	1.1700e-003	69.4521

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	89.9303	0.5345	0.0135	107.3076
Unmitigated	106.1722	0.6678	0.0168	127.8644

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	20.3281 / 12.8155	104.5768	0.6677	0.0168	126.2614
City Park	0 / 0.595741	1.5955	9.0000e-005	2.0000e-005	1.6030
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000

Total		106.1722	0.6678	0.0168	127.8644
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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	16.2624 / 12.0338	88.4321	0.5345	0.0135	105.8024
City Park	0 / 0.5594	1.4982	8.0000e-005	2.0000e-005	1.5052
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		89.9303	0.5345	0.0135	107.3076

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			

Mitigated	14.5707	0.8611	0.0000	36.0983
Unmitigated	29.1414	1.7222	0.0000	72.1965

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	143.52	29.1333	1.7217	0.0000	72.1764
City Park	0.04	8.1200e-003	4.8000e-004	0.0000	0.0201
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		29.1414	1.7222	0.0000	72.1966

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	71.76	14.5666	0.8609	0.0000	36.0882
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101

Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		14.5707	0.8611	0.0000	36.0983

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
