

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS EMISSIONS DATA

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Norwalk Shapell Apartment
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	276.00	Space	2.48	110,400.00	0
Apartments Low Rise	215.00	Dwelling Unit	2.79	215,000.00	615
City Park	2.72	Acre	2.72	118,118.00	0
Strip Mall	3.06	1000sqft	0.07	3,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per site plan
- Construction Phase - Anticipated construction schedule
- Grading -
- Demolition -
- Vehicle Trips - Per traffic study
- Woodstoves - No wood burning fire place per SCAQMD rule
- Construction Off-road Equipment Mitigation - Dust control measures
- Water Mitigation -

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	75.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	PhaseEndDate	12/20/2024	9/12/2025
tblConstructionPhase	PhaseEndDate	10/25/2024	3/7/2025
tblConstructionPhase	PhaseEndDate	10/27/2023	9/29/2023
tblConstructionPhase	PhaseEndDate	12/8/2023	1/12/2024
tblConstructionPhase	PhaseEndDate	11/22/2024	5/30/2025
tblConstructionPhase	PhaseEndDate	11/10/2023	11/3/2023
tblConstructionPhase	PhaseStartDate	11/23/2024	5/31/2025
tblConstructionPhase	PhaseStartDate	12/9/2023	1/13/2024
tblConstructionPhase	PhaseStartDate	11/11/2023	11/4/2023
tblConstructionPhase	PhaseStartDate	10/26/2024	3/8/2025
tblConstructionPhase	PhaseStartDate	10/28/2023	10/1/2023
tblFireplaces	NumberWood	10.75	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	118,483.20	118,118.00
tblLandUse	LotAcreage	13.44	2.79
tblVehicleTrips	ST_TR	8.14	6.74
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	42.04	54.32
tblVehicleTrips	SU_TR	6.28	6.74

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	20.43	54.32
tblVehicleTrips	WD_TR	7.32	6.74
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	44.32	54.32
tblWoodstoves	NumberCatalytic	10.75	0.00
tblWoodstoves	NumberNoncatalytic	10.75	0.00

2.0 Emissions Summary

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7214	27.5686	18.8439	0.0457	19.8582	1.2672	21.1254	10.1558	1.1659	11.3217	0.0000	4,624.918 8	4,624.918 8	1.1972	0.2591	4,727.664 7
2024	2.3479	20.4790	24.9025	0.0611	7.7105	0.7462	8.4567	3.5926	0.6873	4.2799	0.0000	6,128.786 8	6,128.786 8	1.0218	0.2553	6,215.334 9
2025	19.0469	15.4131	24.2774	0.0601	3.2075	0.5551	3.7626	0.8595	0.5220	1.3815	0.0000	6,050.240 4	6,050.240 4	0.7169	0.2246	6,134.531 9
Maximum	19.0469	27.5686	24.9025	0.0611	19.8582	1.2672	21.1254	10.1558	1.1659	11.3217	0.0000	6,128.786 8	6,128.786 8	1.1972	0.2591	6,215.334 9

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7214	27.5686	18.8439	0.0457	8.5941	1.2672	9.8613	4.3696	1.1659	5.5354	0.0000	4,624.918 8	4,624.918 8	1.1972	0.2591	4,727.664 7
2024	2.3479	20.4790	24.9025	0.0611	3.6142	0.7462	4.3604	1.6230	0.6873	2.3102	0.0000	6,128.786 8	6,128.786 8	1.0218	0.2553	6,215.334 9
2025	19.0469	15.4131	24.2774	0.0601	3.0439	0.5551	3.5990	0.8194	0.5220	1.3414	0.0000	6,050.240 4	6,050.240 4	0.7169	0.2246	6,134.531 9
Maximum	19.0469	27.5686	24.9025	0.0611	8.5941	1.2672	9.8613	4.3696	1.1659	5.5354	0.0000	6,128.786 8	6,128.786 8	1.1972	0.2591	6,215.334 9

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	50.44	0.00	46.56	53.37	0.00	45.90	0.00	0.00	0.00	0.00	0.00	0.00

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665
Energy	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560
Mobile	4.5284	4.8943	45.1795	0.0985	11.0920	0.0733	11.1653	2.9547	0.0680	3.0227		10,302.2378	10,302.2378	0.7077	0.4401	10,451.0916
Total	10.2664	8.9931	64.5869	0.1243	11.0920	0.4866	11.5786	2.9547	0.4813	3.4360	0.0000	15,305.7485	15,305.7485	0.8338	0.5313	15,484.9141

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	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665
Energy	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560
Mobile	4.5284	4.8943	45.1795	0.0985	11.0920	0.0733	11.1653	2.9547	0.0680	3.0227		10,302.2378	10,302.2378	0.7077	0.4401	10,451.0916
Total	10.2664	8.9931	64.5869	0.1243	11.0920	0.4866	11.5786	2.9547	0.4813	3.4360	0.0000	15,305.7485	15,305.7485	0.8338	0.5313	15,484.9141

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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	Building Construction	Building Construction	1/13/2024	3/7/2025	5	300	
2	Demolition	Demolition	10/1/2023	9/29/2023	5	0	
3	Site Preparation	Site Preparation	10/1/2023	11/3/2023	5	25	
4	Grading	Grading	11/4/2023	1/12/2024	5	50	
5	Paving	Paving	3/8/2025	5/30/2025	5	60	
6	Architectural Coating	Architectural Coating	5/31/2025	9/12/2025	5	75	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 50

Acres of Paving: 2.48

Residential Indoor: 435,375; Residential Outdoor: 145,125; Non-Residential Indoor: 4,590; Non-Residential Outdoor: 1,530; Striped Parking Area: 6,624 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

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Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	252.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	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

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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	0.0000
Vendor	0.0656	2.4564	0.9159	0.0112	0.3907	0.0119	0.4027	0.1125	0.0114	0.1239		1,205.4474	1,205.4474	0.0409	0.1737	1,258.2179
Worker	0.8108	0.5548	7.8198	0.0230	2.8168	0.0163	2.8331	0.7470	0.0150	0.7620		2,367.6405	2,367.6405	0.0584	0.0578	2,386.3093
Total	0.8764	3.0112	8.7357	0.0341	3.2075	0.0282	3.2357	0.8595	0.0264	0.8859		3,573.0879	3,573.0879	0.0993	0.2314	3,644.5273

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

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	0.0000
Vendor	0.0656	2.4564	0.9159	0.0112	0.3740	0.0119	0.3860	0.1084	0.0114	0.1198		1,205.4474	1,205.4474	0.0409	0.1737	1,258.2179
Worker	0.8108	0.5548	7.8198	0.0230	2.6698	0.0163	2.6861	0.7110	0.0150	0.7260		2,367.6405	2,367.6405	0.0584	0.0578	2,386.3093
Total	0.8764	3.0112	8.7357	0.0341	3.0439	0.0282	3.0721	0.8194	0.0264	0.8458		3,573.0879	3,573.0879	0.0993	0.2314	3,644.5273

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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
Vendor	0.0636	2.4450	0.8993	0.0110	0.3907	0.0120	0.4027	0.1125	0.0114	0.1239		1,183.781 1	1,183.781 1	0.0412	0.1706	1,235.662 0
Worker	0.7609	0.4984	7.2934	0.0222	2.8168	0.0156	2.8323	0.7470	0.0143	0.7613		2,309.984 9	2,309.984 9	0.0527	0.0539	2,327.371 8
Total	0.8244	2.9434	8.1927	0.0332	3.2075	0.0275	3.2350	0.8595	0.0257	0.8853		3,493.766 1	3,493.766 1	0.0939	0.2246	3,563.033 8

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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
Vendor	0.0636	2.4450	0.8993	0.0110	0.3741	0.0120	0.3860	0.1084	0.0114	0.1198		1,183.781 1	1,183.781 1	0.0412	0.1706	1,235.662 0
Worker	0.7609	0.4984	7.2934	0.0222	2.6698	0.0156	2.6854	0.7110	0.0143	0.7253		2,309.984 9	2,309.984 9	0.0527	0.0539	2,327.371 8
Total	0.8244	2.9434	8.1927	0.0332	3.0439	0.0275	3.0714	0.8194	0.0257	0.8451		3,493.766 1	3,493.766 1	0.0939	0.2246	3,563.033 8

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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
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	0.0619	0.0444	0.5996	1.6900e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		172.6608	172.6608	4.6000e-003	4.4400e-003	174.0982
Total	0.0619	0.0444	0.5996	1.6900e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		172.6608	172.6608	4.6000e-003	4.4400e-003	174.0982

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Site Preparation - 2023

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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	8.4034	1.2660	9.6694	4.3188	1.1647	5.4835	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0619	0.0444	0.5996	1.6900e-003	0.1907	1.2100e-003	0.1919	0.0508	1.1200e-003	0.0519		172.6608	172.6608	4.6000e-003	4.4400e-003	174.0982
Total	0.0619	0.0444	0.5996	1.6900e-003	0.1907	1.2100e-003	0.1919	0.0508	1.1200e-003	0.0519		172.6608	172.6608	4.6000e-003	4.4400e-003	174.0982

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.1052	0.7749	7.8801	3.4282	0.7129	4.1411		2,872.6910	2,872.6910	0.9291		2,895.9182

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	0.0507	3.4061	0.8827	0.0146	0.4376	0.0206	0.4582	0.1200	0.0197	0.1397		1,608.3438	1,608.3438	0.0884	0.2554	1,686.6647
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	0.0516	0.0370	0.4996	1.4100e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	0.1023	3.4431	1.3823	0.0161	0.6053	0.0216	0.6269	0.1645	0.0207	0.1851		1,752.2278	1,752.2278	0.0922	0.2591	1,831.7465

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 2023

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					3.0375	0.0000	3.0375	1.4655	0.0000	1.4655			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	3.0375	0.7749	3.8124	1.4655	0.7129	2.1785	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0507	3.4061	0.8827	0.0146	0.4178	0.0206	0.4384	0.1151	0.0197	0.1349		1,608.3438	1,608.3438	0.0884	0.2554	1,686.6647
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	0.0516	0.0370	0.4996	1.4100e-003	0.1589	1.0100e-003	0.1599	0.0423	9.3000e-004	0.0433		143.8840	143.8840	3.8300e-003	3.7000e-003	145.0818
Total	0.1023	3.4431	1.3823	0.0161	0.5767	0.0216	0.5983	0.1574	0.0207	0.1781		1,752.2278	1,752.2278	0.0922	0.2591	1,831.7465

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 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					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	7.1052	0.7244	7.8296	3.4282	0.6665	4.0946		2,873.054 1	2,873.054 1	0.9292		2,896.284 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0504	3.4150	0.8980	0.0144	0.4376	0.0208	0.4584	0.1200	0.0199	0.1399		1,585.591 2	1,585.591 2	0.0892	0.2519	1,662.883 5
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	0.0483	0.0330	0.4655	1.3700e-003	0.1677	9.7000e-004	0.1686	0.0445	8.9000e-004	0.0454		140.9310	140.9310	3.4700e-003	3.4400e-003	142.0422
Total	0.0986	3.4480	1.3634	0.0158	0.6053	0.0218	0.6271	0.1645	0.0208	0.1852		1,726.522 2	1,726.522 2	0.0926	0.2553	1,804.925 8

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 2024

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					3.0375	0.0000	3.0375	1.4655	0.0000	1.4655			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	3.0375	0.7244	3.7619	1.4655	0.6665	2.1320	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2

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	0.0504	3.4150	0.8980	0.0144	0.4178	0.0208	0.4386	0.1151	0.0199	0.1350		1,585.591 2	1,585.591 2	0.0892	0.2519	1,662.883 5
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	0.0483	0.0330	0.4655	1.3700e-003	0.1589	9.7000e-004	0.1599	0.0423	8.9000e-004	0.0432		140.9310	140.9310	3.4700e-003	3.4400e-003	142.0422
Total	0.0986	3.4480	1.3634	0.0158	0.5767	0.0218	0.5985	0.1574	0.0208	0.1782		1,726.522 2	1,726.522 2	0.0926	0.2553	1,804.925 8

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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
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	0.0453	0.0297	0.4341	1.3200e-003	0.1677	9.3000e-004	0.1686	0.0445	8.5000e-004	0.0453		137.4991	137.4991	3.1400e-003	3.2100e-003	138.5340
Total	0.0453	0.0297	0.4341	1.3200e-003	0.1677	9.3000e-004	0.1686	0.0445	8.5000e-004	0.0453		137.4991	137.4991	3.1400e-003	3.2100e-003	138.5340

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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
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	0.0453	0.0297	0.4341	1.3200e-003	0.1589	9.3000e-004	0.1598	0.0423	8.5000e-004	0.0432		137.4991	137.4991	3.1400e-003	3.2100e-003	138.5340
Total	0.0453	0.0297	0.4341	1.3200e-003	0.1589	9.3000e-004	0.1598	0.0423	8.5000e-004	0.0432		137.4991	137.4991	3.1400e-003	3.2100e-003	138.5340

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2025

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	18.7250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	18.8959	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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
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	0.1510	0.0989	1.4471	4.4000e-003	0.5589	3.0900e-003	0.5620	0.1482	2.8400e-003	0.1511		458.3303	458.3303	0.0105	0.0107	461.7801
Total	0.1510	0.0989	1.4471	4.4000e-003	0.5589	3.0900e-003	0.5620	0.1482	2.8400e-003	0.1511		458.3303	458.3303	0.0105	0.0107	461.7801

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2025

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	18.7250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	18.8959	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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
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	0.1510	0.0989	1.4471	4.4000e-003	0.5297	3.0900e-003	0.5328	0.1411	2.8400e-003	0.1439		458.3303	458.3303	0.0105	0.0107	461.7801
Total	0.1510	0.0989	1.4471	4.4000e-003	0.5297	3.0900e-003	0.5328	0.1411	2.8400e-003	0.1439		458.3303	458.3303	0.0105	0.0107	461.7801

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5284	4.8943	45.1795	0.0985	11.0920	0.0733	11.1653	2.9547	0.0680	3.0227		10,302.2378	10,302.2378	0.7077	0.4401	10,451.0916
Unmitigated	4.5284	4.8943	45.1795	0.0985	11.0920	0.0733	11.1653	2.9547	0.0680	3.0227		10,302.2378	10,302.2378	0.7077	0.4401	10,451.0916

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,449.10	1,449.10	1449.10	4,951,795	4,951,795
City Park	0.00	0.00	0.00		
Strip Mall	166.22	166.22	166.22	316,248	316,248
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	1,615.32	1,615.32	1,615.32	5,268,043	5,268,043

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 Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Unenclosed Parking Structure	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 Low Rise	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
City Park	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Strip Mall	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Unenclosed Parking Structure	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560
NaturalGas Unmitigated	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	9349.17	0.1008	0.8616	0.3666	5.5000e-003		0.0697	0.0697		0.0697	0.0697		1,099.9026	1,099.9026	0.0211	0.0202	1,106.4388
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
Strip Mall	13.6652	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6077	1.6077	3.0000e-005	3.0000e-005	1.6172
Unenclosed Parking Structure	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		0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	9.34917	0.1008	0.8616	0.3666	5.5000e-003		0.0697	0.0697		0.0697	0.0697		1,099.9026	1,099.9026	0.0211	0.0202	1,106.4388
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
Strip Mall	0.0136652	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6077	1.6077	3.0000e-005	3.0000e-005	1.6172
Unenclosed Parking Structure	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		0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560

6.0 Area Detail

6.1 Mitigation Measures Area

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665
Unmitigated	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3628					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3548	3.0315	1.2900	0.0194		0.2451	0.2451		0.2451	0.2451	0.0000	3,870.0000	3,870.0000	0.0742	0.0710	3,892.9975
Landscaping	0.5347	0.2044	17.7497	9.4000e-004		0.0984	0.0984		0.0984	0.0984		32.0004	32.0004	0.0308		32.7691
Total	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3628					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3548	3.0315	1.2900	0.0194		0.2451	0.2451		0.2451	0.2451	0.0000	3,870.0000	3,870.0000	0.0742	0.0710	3,892.9975
Landscaping	0.5347	0.2044	17.7497	9.4000e-004		0.0984	0.0984		0.0984	0.0984		32.0004	32.0004	0.0308		32.7691
Total	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665

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

Norwalk Shapell Apartment - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Norwalk Shapell Apartment
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	276.00	Space	2.48	110,400.00	0
Apartments Low Rise	215.00	Dwelling Unit	2.79	215,000.00	615
City Park	2.72	Acre	2.72	118,118.00	0
Strip Mall	3.06	1000sqft	0.07	3,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per site plan
- Construction Phase - Anticipated construction schedule
- Grading -
- Demolition -
- Vehicle Trips - Per traffic study
- Woodstoves - No wood burning fire place per SCAQMD rule
- Construction Off-road Equipment Mitigation - Dust control measures
- Water Mitigation -

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	75.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	PhaseEndDate	12/20/2024	9/12/2025
tblConstructionPhase	PhaseEndDate	10/25/2024	3/7/2025
tblConstructionPhase	PhaseEndDate	10/27/2023	9/29/2023
tblConstructionPhase	PhaseEndDate	12/8/2023	1/12/2024
tblConstructionPhase	PhaseEndDate	11/22/2024	5/30/2025
tblConstructionPhase	PhaseEndDate	11/10/2023	11/3/2023
tblConstructionPhase	PhaseStartDate	11/23/2024	5/31/2025
tblConstructionPhase	PhaseStartDate	12/9/2023	1/13/2024
tblConstructionPhase	PhaseStartDate	11/11/2023	11/4/2023
tblConstructionPhase	PhaseStartDate	10/26/2024	3/8/2025
tblConstructionPhase	PhaseStartDate	10/28/2023	10/1/2023
tblFireplaces	NumberWood	10.75	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	118,483.20	118,118.00
tblLandUse	LotAcreage	13.44	2.79
tblVehicleTrips	ST_TR	8.14	6.74
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	42.04	54.32
tblVehicleTrips	SU_TR	6.28	6.74

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	20.43	54.32
tblVehicleTrips	WD_TR	7.32	6.74
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	44.32	54.32
tblWoodstoves	NumberCatalytic	10.75	0.00
tblWoodstoves	NumberNoncatalytic	10.75	0.00

2.0 Emissions Summary

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7171	27.5644	18.8966	0.0458	19.8582	1.2672	21.1254	10.1558	1.1659	11.3217	0.0000	4,631.233 2	4,631.233 2	1.1971	0.2586	4,733.830 0
2024	2.2918	20.3315	25.5545	0.0624	7.7105	0.7461	8.4566	3.5926	0.6872	4.2798	0.0000	6,258.256 2	6,258.256 2	1.0220	0.2548	6,343.559 6
2025	19.0355	15.2562	24.8779	0.0613	3.2075	0.5550	3.7625	0.8595	0.5219	1.3815	0.0000	6,176.214 8	6,176.214 8	0.7168	0.2207	6,259.342 2
Maximum	19.0355	27.5644	25.5545	0.0624	19.8582	1.2672	21.1254	10.1558	1.1659	11.3217	0.0000	6,258.256 2	6,258.256 2	1.1971	0.2586	6,343.559 6

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.7171	27.5644	18.8966	0.0458	8.5941	1.2672	9.8613	4.3696	1.1659	5.5354	0.0000	4,631.233 2	4,631.233 2	1.1971	0.2586	4,733.830 0
2024	2.2918	20.3315	25.5545	0.0624	3.6142	0.7461	4.3603	1.6230	0.6872	2.3102	0.0000	6,258.256 2	6,258.256 2	1.0220	0.2548	6,343.559 6
2025	19.0355	15.2562	24.8779	0.0613	3.0439	0.5550	3.5989	0.8194	0.5219	1.3413	0.0000	6,176.214 8	6,176.214 8	0.7168	0.2207	6,259.342 2
Maximum	19.0355	27.5644	25.5545	0.0624	8.5941	1.2672	9.8613	4.3696	1.1659	5.5354	0.0000	6,258.256 2	6,258.256 2	1.1971	0.2586	6,343.559 6

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665
Energy	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560
Mobile	4.6132	4.5347	46.0538	0.1029	11.0920	0.0733	11.1652	2.9547	0.0680	3.0227		10,756.1539	10,756.1539	0.6884	0.4219	10,899.0795
Total	10.3511	8.6335	65.4612	0.1287	11.0920	0.4865	11.5785	2.9547	0.4813	3.4360	0.0000	15,759.6646	15,759.6646	0.8144	0.5130	15,932.9020

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	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665
Energy	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560
Mobile	4.6132	4.5347	46.0538	0.1029	11.0920	0.0733	11.1652	2.9547	0.0680	3.0227		10,756.1539	10,756.1539	0.6884	0.4219	10,899.0795
Total	10.3511	8.6335	65.4612	0.1287	11.0920	0.4865	11.5785	2.9547	0.4813	3.4360	0.0000	15,759.6646	15,759.6646	0.8144	0.5130	15,932.9020

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	Building Construction	Building Construction	1/13/2024	3/7/2025	5	300	
2	Demolition	Demolition	10/1/2023	9/29/2023	5	0	
3	Site Preparation	Site Preparation	10/1/2023	11/3/2023	5	25	
4	Grading	Grading	11/4/2023	1/12/2024	5	50	
5	Paving	Paving	3/8/2025	5/30/2025	5	60	
6	Architectural Coating	Architectural Coating	5/31/2025	9/12/2025	5	75	

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 50

Acres of Paving: 2.48

Residential Indoor: 435,375; Residential Outdoor: 145,125; Non-Residential Indoor: 4,590; Non-Residential Outdoor: 1,530; Striped Parking Area: 6,624 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	1	8.00	158	0.38

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	252.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	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

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 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	0.0000
Vendor	0.0681	2.3462	0.8878	0.0112	0.3907	0.0119	0.4026	0.1125	0.0113	0.1238		1,203.3751	1,203.3751	0.0411	0.1732	1,256.0144
Worker	0.7521	0.5024	8.4999	0.0242	2.8168	0.0163	2.8331	0.7470	0.0150	0.7620		2,499.1822	2,499.1822	0.0575	0.0541	2,516.7375
Total	0.8202	2.8486	9.3877	0.0354	3.2075	0.0282	3.2357	0.8595	0.0263	0.8859		3,702.5573	3,702.5573	0.0986	0.2273	3,772.7519

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

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	0.0000
Vendor	0.0681	2.3462	0.8878	0.0112	0.3740	0.0119	0.3859	0.1084	0.0113	0.1197		1,203.3751	1,203.3751	0.0411	0.1732	1,256.0144
Worker	0.7521	0.5024	8.4999	0.0242	2.6698	0.0163	2.6861	0.7110	0.0150	0.7260		2,499.1822	2,499.1822	0.0575	0.0541	2,516.7375
Total	0.8202	2.8486	9.3877	0.0354	3.0439	0.0282	3.0720	0.8194	0.0263	0.8457		3,702.5573	3,702.5573	0.0986	0.2273	3,772.7519

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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
Vendor	0.0662	2.3350	0.8715	0.0110	0.3907	0.0119	0.4026	0.1125	0.0114	0.1239		1,181.709 6	1,181.709 6	0.0414	0.1702	1,233.463 0
Worker	0.7035	0.4514	7.9218	0.0234	2.8168	0.0156	2.8323	0.7470	0.0143	0.7613		2,438.030 8	2,438.030 8	0.0518	0.0505	2,454.381 1
Total	0.7696	2.7865	8.7932	0.0344	3.2075	0.0274	3.2350	0.8595	0.0257	0.8852		3,619.740 4	3,619.740 4	0.0932	0.2207	3,687.844 1

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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
Vendor	0.0662	2.3350	0.8715	0.0110	0.3741	0.0119	0.3859	0.1084	0.0114	0.1198		1,181.709 6	1,181.709 6	0.0414	0.1702	1,233.463 0
Worker	0.7035	0.4514	7.9218	0.0234	2.6698	0.0156	2.6854	0.7110	0.0143	0.7253		2,438.030 8	2,438.030 8	0.0518	0.0505	2,454.381 1
Total	0.7696	2.7865	8.7932	0.0344	3.0439	0.0274	3.0713	0.8194	0.0257	0.8451		3,619.740 4	3,619.740 4	0.0932	0.2207	3,687.844 1

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647		3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	19.6570	1.2660	20.9230	10.1025	1.1647	11.2672		3,687.308 1	3,687.308 1	1.1926		3,717.121 9

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
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	0.0576	0.0402	0.6523	1.7800e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218
Total	0.0576	0.0402	0.6523	1.7800e-003	0.2012	1.2100e-003	0.2024	0.0534	1.1200e-003	0.0545		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Site Preparation - 2023

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					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9
Total	2.6595	27.5242	18.2443	0.0381	8.4034	1.2660	9.6694	4.3188	1.1647	5.4835	0.0000	3,687.308 1	3,687.308 1	1.1926		3,717.121 9

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0576	0.0402	0.6523	1.7800e-003	0.1907	1.2100e-003	0.1919	0.0508	1.1200e-003	0.0519		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218
Total	0.0576	0.0402	0.6523	1.7800e-003	0.1907	1.2100e-003	0.1919	0.0508	1.1200e-003	0.0519		182.2703	182.2703	4.5400e-003	4.1500e-003	183.6218

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129		2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	7.1052	0.7749	7.8801	3.4282	0.7129	4.1411		2,872.6910	2,872.6910	0.9291		2,895.9182

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	0.0542	3.2623	0.8707	0.0146	0.4376	0.0206	0.4582	0.1200	0.0197	0.1397		1,606.6503	1,606.6503	0.0886	0.2551	1,684.8937
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	0.0480	0.0335	0.5436	1.4800e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	0.1023	3.2957	1.4143	0.0161	0.6053	0.0216	0.6269	0.1645	0.0206	0.1851		1,758.5422	1,758.5422	0.0923	0.2586	1,837.9119

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 2023

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					3.0375	0.0000	3.0375	1.4655	0.0000	1.4655			0.0000			0.0000
Off-Road	1.7109	17.9359	14.7507	0.0297		0.7749	0.7749		0.7129	0.7129	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182
Total	1.7109	17.9359	14.7507	0.0297	3.0375	0.7749	3.8124	1.4655	0.7129	2.1785	0.0000	2,872.6910	2,872.6910	0.9291		2,895.9182

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0542	3.2623	0.8707	0.0146	0.4178	0.0206	0.4384	0.1151	0.0197	0.1348		1,606.6503	1,606.6503	0.0886	0.2551	1,684.8937
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	0.0480	0.0335	0.5436	1.4800e-003	0.1589	1.0100e-003	0.1599	0.0423	9.3000e-004	0.0433		151.8919	151.8919	3.7800e-003	3.4600e-003	153.0181
Total	0.1023	3.2957	1.4143	0.0161	0.5767	0.0216	0.5983	0.1574	0.0206	0.1781		1,758.5422	1,758.5422	0.0923	0.2586	1,837.9119

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 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					
Fugitive Dust					7.1052	0.0000	7.1052	3.4282	0.0000	3.4282			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665		2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	7.1052	0.7244	7.8296	3.4282	0.6665	4.0946		2,873.054 1	2,873.054 1	0.9292		2,896.284 2

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0539	3.2706	0.8861	0.0144	0.4376	0.0207	0.4584	0.1200	0.0199	0.1398		1,583.898 6	1,583.898 6	0.0894	0.2516	1,661.113 6
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	0.0448	0.0299	0.5060	1.4400e-003	0.1677	9.7000e-004	0.1686	0.0445	8.9000e-004	0.0454		148.7609	148.7609	3.4200e-003	3.2200e-003	149.8058
Total	0.0986	3.3005	1.3921	0.0158	0.6053	0.0217	0.6270	0.1645	0.0207	0.1852		1,732.659 4	1,732.659 4	0.0928	0.2548	1,810.919 4

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Grading - 2024

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					3.0375	0.0000	3.0375	1.4655	0.0000	1.4655			0.0000			0.0000
Off-Road	1.6617	17.0310	14.7594	0.0297		0.7244	0.7244		0.6665	0.6665	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2
Total	1.6617	17.0310	14.7594	0.0297	3.0375	0.7244	3.7619	1.4655	0.6665	2.1320	0.0000	2,873.054 1	2,873.054 1	0.9292		2,896.284 2

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	0.0539	3.2706	0.8861	0.0144	0.4178	0.0207	0.4385	0.1151	0.0199	0.1350		1,583.898 6	1,583.898 6	0.0894	0.2516	1,661.113 6
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	0.0448	0.0299	0.5060	1.4400e-003	0.1589	9.7000e-004	0.1599	0.0423	8.9000e-004	0.0432		148.7609	148.7609	3.4200e-003	3.2200e-003	149.8058
Total	0.0986	3.3005	1.3921	0.0158	0.5767	0.0217	0.5984	0.1574	0.0207	0.1782		1,732.659 4	1,732.659 4	0.0928	0.2548	1,810.919 4

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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
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	0.0419	0.0269	0.4715	1.3900e-003	0.1677	9.3000e-004	0.1686	0.0445	8.5000e-004	0.0453		145.1209	145.1209	3.0900e-003	3.0100e-003	146.0941
Total	0.0419	0.0269	0.4715	1.3900e-003	0.1677	9.3000e-004	0.1686	0.0445	8.5000e-004	0.0453		145.1209	145.1209	3.0900e-003	3.0100e-003	146.0941

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving - 2025

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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
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	0.0419	0.0269	0.4715	1.3900e-003	0.1589	9.3000e-004	0.1598	0.0423	8.5000e-004	0.0432		145.1209	145.1209	3.0900e-003	3.0100e-003	146.0941
Total	0.0419	0.0269	0.4715	1.3900e-003	0.1589	9.3000e-004	0.1598	0.0423	8.5000e-004	0.0432		145.1209	145.1209	3.0900e-003	3.0100e-003	146.0941

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2025

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	18.7250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	18.8959	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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
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	0.1396	0.0896	1.5718	4.6400e-003	0.5589	3.0900e-003	0.5620	0.1482	2.8400e-003	0.1511		483.7363	483.7363	0.0103	0.0100	486.9804
Total	0.1396	0.0896	1.5718	4.6400e-003	0.5589	3.0900e-003	0.5620	0.1482	2.8400e-003	0.1511		483.7363	483.7363	0.0103	0.0100	486.9804

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating - 2025

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	18.7250					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	18.8959	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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
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	0.1396	0.0896	1.5718	4.6400e-003	0.5297	3.0900e-003	0.5328	0.1411	2.8400e-003	0.1439		483.7363	483.7363	0.0103	0.0100	486.9804
Total	0.1396	0.0896	1.5718	4.6400e-003	0.5297	3.0900e-003	0.5328	0.1411	2.8400e-003	0.1439		483.7363	483.7363	0.0103	0.0100	486.9804

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6132	4.5347	46.0538	0.1029	11.0920	0.0733	11.1652	2.9547	0.0680	3.0227		10,756.15 39	10,756.15 39	0.6884	0.4219	10,899.07 95
Unmitigated	4.6132	4.5347	46.0538	0.1029	11.0920	0.0733	11.1652	2.9547	0.0680	3.0227		10,756.15 39	10,756.15 39	0.6884	0.4219	10,899.07 95

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,449.10	1,449.10	1449.10	4,951,795	4,951,795
City Park	0.00	0.00	0.00		
Strip Mall	166.22	166.22	166.22	316,248	316,248
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	1,615.32	1,615.32	1,615.32	5,268,043	5,268,043

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 Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Unenclosed Parking Structure	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 Low Rise	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
City Park	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Strip Mall	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Unenclosed Parking Structure	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560
NaturalGas Unmitigated	0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 Low Rise	9349.17	0.1008	0.8616	0.3666	5.5000e-003		0.0697	0.0697		0.0697	0.0697		1,099.9026	1,099.9026	0.0211	0.0202	1,106.4388
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
Strip Mall	13.6652	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6077	1.6077	3.0000e-005	3.0000e-005	1.6172
Unenclosed Parking Structure	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		0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	9.34917	0.1008	0.8616	0.3666	5.5000e-003		0.0697	0.0697		0.0697	0.0697		1,099.9026	1,099.9026	0.0211	0.0202	1,106.4388
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
Strip Mall	0.0136652	1.5000e-004	1.3400e-003	1.1300e-003	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004		1.6077	1.6077	3.0000e-005	3.0000e-005	1.6172
Unenclosed Parking Structure	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		0.1010	0.8629	0.3678	5.5100e-003		0.0698	0.0698		0.0698	0.0698		1,101.5103	1,101.5103	0.0211	0.0202	1,108.0560

6.0 Area Detail

6.1 Mitigation Measures Area

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665
Unmitigated	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3628					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3548	3.0315	1.2900	0.0194		0.2451	0.2451		0.2451	0.2451	0.0000	3,870.0000	3,870.0000	0.0742	0.0710	3,892.9975
Landscaping	0.5347	0.2044	17.7497	9.4000e-004		0.0984	0.0984		0.0984	0.0984		32.0004	32.0004	0.0308		32.7691
Total	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.0004	3,902.0004	0.1049	0.0710	3,925.7665

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3848					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.3628					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.3548	3.0315	1.2900	0.0194		0.2451	0.2451		0.2451	0.2451	0.0000	3,870.000 0	3,870.000 0	0.0742	0.0710	3,892.997 5
Landscaping	0.5347	0.2044	17.7497	9.4000e-004		0.0984	0.0984		0.0984	0.0984		32.0004	32.0004	0.0308		32.7691
Total	5.6370	3.2359	19.0397	0.0203		0.3435	0.3435		0.3435	0.3435	0.0000	3,902.000 4	3,902.000 4	0.1049	0.0710	3,925.766 5

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

Norwalk Shapell Apartment - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Norwalk Shapell Apartment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Norwalk Shapell Apartment
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unenclosed Parking Structure	276.00	Space	2.48	110,400.00	0
Apartments Low Rise	215.00	Dwelling Unit	2.79	215,000.00	615
City Park	2.72	Acre	2.72	118,118.00	0
Strip Mall	3.06	1000sqft	0.07	3,060.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per site plan
- Construction Phase - Anticipated construction schedule
- Grading -
- Demolition -
- Vehicle Trips - Per traffic study
- Woodstoves - No wood burning fire place per SCAQMD rule
- Construction Off-road Equipment Mitigation - Dust control measures
- Water Mitigation -

Norwalk Shapell Apartment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	75.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	NumDays	20.00	50.00
tblConstructionPhase	NumDays	20.00	60.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	PhaseEndDate	12/20/2024	9/12/2025
tblConstructionPhase	PhaseEndDate	10/25/2024	3/7/2025
tblConstructionPhase	PhaseEndDate	10/27/2023	9/29/2023
tblConstructionPhase	PhaseEndDate	12/8/2023	1/12/2024
tblConstructionPhase	PhaseEndDate	11/22/2024	5/30/2025
tblConstructionPhase	PhaseEndDate	11/10/2023	11/3/2023
tblConstructionPhase	PhaseStartDate	11/23/2024	5/31/2025
tblConstructionPhase	PhaseStartDate	12/9/2023	1/13/2024
tblConstructionPhase	PhaseStartDate	11/11/2023	11/4/2023
tblConstructionPhase	PhaseStartDate	10/26/2024	3/8/2025
tblConstructionPhase	PhaseStartDate	10/28/2023	10/1/2023
tblFireplaces	NumberWood	10.75	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	118,483.20	118,118.00
tblLandUse	LotAcreage	13.44	2.79
tblVehicleTrips	ST_TR	8.14	6.74
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	42.04	54.32
tblVehicleTrips	SU_TR	6.28	6.74

Norwalk Shapell Apartment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	20.43	54.32
tblVehicleTrips	WD_TR	7.32	6.74
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	44.32	54.32
tblWoodstoves	NumberCatalytic	10.75	0.00
tblWoodstoves	NumberNoncatalytic	10.75	0.00

2.0 Emissions Summary

Norwalk Shapell Apartment - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0702	0.7729	0.5585	1.4100e-003	0.4076	0.0318	0.4394	0.1993	0.0292	0.2286	0.0000	127.7347	127.7347	0.0321	4.7500e-003	129.9531
2024	0.2967	2.1783	3.2415	7.9700e-003	0.4565	0.0846	0.5411	0.1267	0.0795	0.2062	0.0000	725.3145	725.3145	0.0851	0.0277	735.6924
2025	0.7937	0.6754	1.1609	2.4500e-003	0.1010	0.0280	0.1289	0.0270	0.0261	0.0532	0.0000	221.7036	221.7036	0.0355	5.3600e-003	224.1892
Maximum	0.7937	2.1783	3.2415	7.9700e-003	0.4565	0.0846	0.5411	0.1993	0.0795	0.2286	0.0000	725.3145	725.3145	0.0851	0.0277	735.6924

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0702	0.7729	0.5585	1.4100e-003	0.1818	0.0318	0.2136	0.0873	0.0292	0.1165	0.0000	127.7346	127.7346	0.0321	4.7500e-003	129.9530
2024	0.2967	2.1783	3.2415	7.9700e-003	0.4035	0.0846	0.4881	0.1106	0.0795	0.1900	0.0000	725.3141	725.3141	0.0851	0.0277	735.6920
2025	0.7937	0.6754	1.1609	2.4500e-003	0.0958	0.0280	0.1238	0.0258	0.0261	0.0519	0.0000	221.7035	221.7035	0.0355	5.3600e-003	224.1891
Maximum	0.7937	2.1783	3.2415	7.9700e-003	0.4035	0.0846	0.4881	0.1106	0.0795	0.1900	0.0000	725.3141	725.3141	0.0851	0.0277	735.6920

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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	29.43	0.00	25.60	36.67	0.00	26.53	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	10-1-2023	12-31-2023	0.8482	0.8482
2	1-1-2024	3-31-2024	0.6258	0.6258
3	4-1-2024	6-30-2024	0.6040	0.6040
4	7-1-2024	9-30-2024	0.6106	0.6106
5	10-1-2024	12-31-2024	0.6178	0.6178
6	1-1-2025	3-31-2025	0.4970	0.4970
7	4-1-2025	6-30-2025	0.4294	0.4294
8	7-1-2025	9-30-2025	0.5357	0.5357
		Highest	0.8482	0.8482

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9377	0.0634	2.2348	3.6000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	47.5139	47.5139	4.3300e-003	8.0000e-004	47.8618
Energy	0.0184	0.1575	0.0671	1.0100e-003		0.0127	0.0127		0.0127	0.0127	0.0000	377.6864	377.6864	0.0200	5.3400e-003	379.7777
Mobile	0.8105	0.9030	8.2907	0.0181	1.9794	0.0133	1.9927	0.5281	0.0124	0.5405	0.0000	1,719.0104	1,719.0104	0.1163	0.0731	1,743.6984
Waste						0.0000	0.0000		0.0000	0.0000	20.7741	0.0000	20.7741	1.2277	0.0000	51.4669
Water						0.0000	0.0000		0.0000	0.0000	4.5160	56.9305	61.4466	0.4687	0.0115	76.6001
Total	1.7666	1.1239	10.5927	0.0195	1.9794	0.0414	2.0208	0.5281	0.0405	0.5686	25.2901	2,201.1411	2,226.4313	1.8369	0.0908	2,299.4049

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9377	0.0634	2.2348	3.6000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	47.5139	47.5139	4.3300e-003	8.0000e-004	47.8618
Energy	0.0184	0.1575	0.0671	1.0100e-003		0.0127	0.0127		0.0127	0.0127	0.0000	377.6864	377.6864	0.0200	5.3400e-003	379.7777
Mobile	0.8105	0.9030	8.2907	0.0181	1.9794	0.0133	1.9927	0.5281	0.0124	0.5405	0.0000	1,719.0104	1,719.0104	0.1163	0.0731	1,743.6984
Waste						0.0000	0.0000		0.0000	0.0000	20.7741	0.0000	20.7741	1.2277	0.0000	51.4669
Water						0.0000	0.0000		0.0000	0.0000	3.6128	48.8887	52.5015	0.3752	9.2600e-003	64.6416
Total	1.7666	1.1239	10.5927	0.0195	1.9794	0.0414	2.0208	0.5281	0.0405	0.5686	24.3869	2,193.0993	2,217.4862	1.7435	0.0885	2,287.4464

	ROG	NOx	CO	SO2	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	3.57	0.37	0.40	5.09	2.50	0.52

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/13/2024	3/7/2025	5	300	
2	Demolition	Demolition	10/1/2023	9/29/2023	5	0	
3	Site Preparation	Site Preparation	10/1/2023	11/3/2023	5	25	

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4	Grading	Grading	11/4/2023	1/12/2024	5	50
5	Paving	Paving	3/8/2025	5/30/2025	5	60
6	Architectural Coating	Architectural Coating	5/31/2025	9/12/2025	5	75

Acres of Grading (Site Preparation Phase): 37.5

Acres of Grading (Grading Phase): 50

Acres of Paving: 2.48

Residential Indoor: 435,375; Residential Outdoor: 145,125; Non-Residential Indoor: 4,590; Non-Residential Outdoor: 1,530; Striped Parking Area: 6,624 (Architectural Coating – sqft)

OffRoad Equipment

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Building Construction	Welders	1	8.00	46	0.45
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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	252.00	61.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 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	0.1854	1.6939	2.0370	3.4000e-003		0.0773	0.0773		0.0727	0.0727	0.0000	292.1299	292.1299	0.0691	0.0000	293.8569
Total	0.1854	1.6939	2.0370	3.4000e-003		0.0773	0.0773		0.0727	0.0727	0.0000	292.1299	292.1299	0.0691	0.0000	293.8569

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	8.4100e-003	0.3104	0.1135	1.4100e-003	0.0484	1.5000e-003	0.0499	0.0140	1.4300e-003	0.0154	0.0000	137.6519	137.6519	4.6900e-003	0.0198	143.6782
Worker	0.0941	0.0714	1.0104	2.9300e-003	0.3479	2.0500e-003	0.3500	0.0924	1.8900e-003	0.0943	0.0000	274.6644	274.6644	6.6700e-003	6.7000e-003	276.8280
Total	0.1025	0.3818	1.1239	4.3400e-003	0.3964	3.5500e-003	0.3999	0.1064	3.3200e-003	0.1097	0.0000	412.3162	412.3162	0.0114	0.0265	420.5062

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2024

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	0.1854	1.6939	2.0370	3.4000e-003		0.0773	0.0773		0.0727	0.0727	0.0000	292.1295	292.1295	0.0691	0.0000	293.8565
Total	0.1854	1.6939	2.0370	3.4000e-003		0.0773	0.0773		0.0727	0.0727	0.0000	292.1295	292.1295	0.0691	0.0000	293.8565

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	8.4100e-003	0.3104	0.1135	1.4100e-003	0.0464	1.5000e-003	0.0479	0.0135	1.4300e-003	0.0149	0.0000	137.6519	137.6519	4.6900e-003	0.0198	143.6782
Worker	0.0941	0.0714	1.0104	2.9300e-003	0.3298	2.0500e-003	0.3319	0.0880	1.8900e-003	0.0899	0.0000	274.6644	274.6644	6.6700e-003	6.7000e-003	276.8280
Total	0.1025	0.3818	1.1239	4.3400e-003	0.3762	3.5500e-003	0.3798	0.1015	3.3200e-003	0.1048	0.0000	412.3162	412.3162	0.0114	0.0265	420.5062

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

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	0.0328	0.2993	0.3860	6.5000e-004		0.0127	0.0127		0.0119	0.0119	0.0000	55.6607	55.6607	0.0131	0.0000	55.9878
Total	0.0328	0.2993	0.3860	6.5000e-004		0.0127	0.0127		0.0119	0.0119	0.0000	55.6607	55.6607	0.0131	0.0000	55.9878

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5600e-003	0.0588	0.0212	2.6000e-004	9.2300e-003	2.9000e-004	9.5100e-003	2.6600e-003	2.7000e-004	2.9400e-003	0.0000	25.7477	25.7477	9.0000e-004	3.7100e-003	26.8762
Worker	0.0168	0.0122	0.1795	5.4000e-004	0.0663	3.7000e-004	0.0667	0.0176	3.4000e-004	0.0180	0.0000	51.0413	51.0413	1.1500e-003	1.1900e-003	51.4251
Total	0.0183	0.0711	0.2007	8.0000e-004	0.0755	6.6000e-004	0.0762	0.0203	6.1000e-004	0.0209	0.0000	76.7890	76.7890	2.0500e-003	4.9000e-003	78.3013

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Building Construction - 2025

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	0.0328	0.2993	0.3860	6.5000e-004		0.0127	0.0127		0.0119	0.0119	0.0000	55.6606	55.6606	0.0131	0.0000	55.9877
Total	0.0328	0.2993	0.3860	6.5000e-004		0.0127	0.0127		0.0119	0.0119	0.0000	55.6606	55.6606	0.0131	0.0000	55.9877

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5600e-003	0.0588	0.0212	2.6000e-004	8.8400e-003	2.9000e-004	9.1200e-003	2.5700e-003	2.7000e-004	2.8400e-003	0.0000	25.7477	25.7477	9.0000e-004	3.7100e-003	26.8762
Worker	0.0168	0.0122	0.1795	5.4000e-004	0.0628	3.7000e-004	0.0632	0.0168	3.4000e-004	0.0171	0.0000	51.0413	51.0413	1.1500e-003	1.1900e-003	51.4251
Total	0.0183	0.0711	0.2007	8.0000e-004	0.0717	6.6000e-004	0.0723	0.0193	6.1000e-004	0.0199	0.0000	76.7890	76.7890	2.0500e-003	4.9000e-003	78.3013

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2457	0.0000	0.2457	0.1263	0.0000	0.1263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3441	0.2281	4.8000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	41.8134	41.8134	0.0135	0.0000	42.1515
Total	0.0332	0.3441	0.2281	4.8000e-004	0.2457	0.0158	0.2615	0.1263	0.0146	0.1408	0.0000	41.8134	41.8134	0.0135	0.0000	42.1515

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	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037
Total	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Site Preparation - 2023

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					0.1050	0.0000	0.1050	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0332	0.3441	0.2281	4.8000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	41.8133	41.8133	0.0135	0.0000	42.1514
Total	0.0332	0.3441	0.2281	4.8000e-004	0.1050	0.0158	0.1209	0.0540	0.0146	0.0685	0.0000	41.8133	41.8133	0.0135	0.0000	42.1514

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	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3500e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037
Total	7.1000e-004	5.7000e-004	7.6900e-003	2.0000e-005	2.3400e-003	2.0000e-005	2.3500e-003	6.2000e-004	1.0000e-005	6.4000e-004	0.0000	1.9872	1.9872	5.0000e-005	5.0000e-005	2.0037

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3.5 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					0.1475	0.0000	0.1475	0.0692	0.0000	0.0692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.3587	0.2950	5.9000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	52.1212	52.1212	0.0169	0.0000	52.5427
Total	0.0342	0.3587	0.2950	5.9000e-004	0.1475	0.0155	0.1630	0.0692	0.0143	0.0834	0.0000	52.1212	52.1212	0.0169	0.0000	52.5427

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0688	0.0175	2.9000e-004	8.6000e-003	4.1000e-004	9.0100e-003	2.3600e-003	3.9000e-004	2.7600e-003	0.0000	29.1635	29.1635	1.6100e-003	4.6300e-003	30.5837
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	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.2900e-003	2.0000e-005	3.3100e-003	8.7000e-004	2.0000e-005	8.9000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716
Total	2.0000e-003	0.0695	0.0278	3.2000e-004	0.0119	4.3000e-004	0.0123	3.2300e-003	4.1000e-004	3.6500e-003	0.0000	31.8130	31.8130	1.6800e-003	4.7000e-003	33.2553

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3.5 Grading - 2023

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					0.0631	0.0000	0.0631	0.0296	0.0000	0.0296	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.3587	0.2950	5.9000e-004		0.0155	0.0155		0.0143	0.0143	0.0000	52.1212	52.1212	0.0169	0.0000	52.5426
Total	0.0342	0.3587	0.2950	5.9000e-004	0.0631	0.0155	0.0786	0.0296	0.0143	0.0438	0.0000	52.1212	52.1212	0.0169	0.0000	52.5426

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0500e-003	0.0688	0.0175	2.9000e-004	8.2200e-003	4.1000e-004	8.6300e-003	2.2700e-003	3.9000e-004	2.6600e-003	0.0000	29.1635	29.1635	1.6100e-003	4.6300e-003	30.5837
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	9.5000e-004	7.6000e-004	0.0103	3.0000e-005	3.1200e-003	2.0000e-005	3.1400e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.6495	2.6495	7.0000e-005	7.0000e-005	2.6716
Total	2.0000e-003	0.0695	0.0278	3.2000e-004	0.0113	4.3000e-004	0.0118	3.1000e-003	4.1000e-004	3.5100e-003	0.0000	31.8130	31.8130	1.6800e-003	4.7000e-003	33.2553

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3.5 Grading - 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					
Fugitive Dust					0.0572	0.0000	0.0572	0.0195	0.0000	0.0195	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3100e-003	0.0852	0.0738	1.5000e-004		3.6200e-003	3.6200e-003		3.3300e-003	3.3300e-003	0.0000	13.0320	13.0320	4.2100e-003	0.0000	13.1373
Total	8.3100e-003	0.0852	0.0738	1.5000e-004	0.0572	3.6200e-003	0.0608	0.0195	3.3300e-003	0.0228	0.0000	13.0320	13.0320	4.2100e-003	0.0000	13.1373

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-004	0.0172	4.4500e-003	7.0000e-005	2.1500e-003	1.0000e-004	2.2500e-003	5.9000e-004	1.0000e-004	6.9000e-004	0.0000	7.1877	7.1877	4.0000e-004	1.1400e-003	7.5381
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	1.7000e-004	2.3900e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6488	0.6488	2.0000e-005	2.0000e-005	0.6539
Total	4.8000e-004	0.0174	6.8400e-003	8.0000e-005	2.9700e-003	1.0000e-004	3.0800e-003	8.1000e-004	1.0000e-004	9.1000e-004	0.0000	7.8364	7.8364	4.2000e-004	1.1600e-003	8.1919

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3.5 Grading - 2024

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					0.0245	0.0000	0.0245	8.3400e-003	0.0000	8.3400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3100e-003	0.0852	0.0738	1.5000e-004		3.6200e-003	3.6200e-003		3.3300e-003	3.3300e-003	0.0000	13.0319	13.0319	4.2100e-003	0.0000	13.1373
Total	8.3100e-003	0.0852	0.0738	1.5000e-004	0.0245	3.6200e-003	0.0281	8.3400e-003	3.3300e-003	0.0117	0.0000	13.0319	13.0319	4.2100e-003	0.0000	13.1373

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.6000e-004	0.0172	4.4500e-003	7.0000e-005	2.0500e-003	1.0000e-004	2.1600e-003	5.7000e-004	1.0000e-004	6.7000e-004	0.0000	7.1877	7.1877	4.0000e-004	1.1400e-003	7.5381
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	1.7000e-004	2.3900e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6488	0.6488	2.0000e-005	2.0000e-005	0.6539
Total	4.8000e-004	0.0174	6.8400e-003	8.0000e-005	2.8300e-003	1.0000e-004	2.9400e-003	7.8000e-004	1.0000e-004	8.8000e-004	0.0000	7.8364	7.8364	4.2000e-004	1.1600e-003	8.1919

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3.6 Paving - 2025

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	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0578	60.0578	0.0194	0.0000	60.5434
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0578	60.0578	0.0194	0.0000	60.5434

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	1.2500e-003	9.1000e-004	0.0134	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7977	3.7977	9.0000e-005	9.0000e-005	3.8263
Total	1.2500e-003	9.1000e-004	0.0134	4.0000e-005	4.9300e-003	3.0000e-005	4.9600e-003	1.3100e-003	3.0000e-005	1.3400e-003	0.0000	3.7977	3.7977	9.0000e-005	9.0000e-005	3.8263

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3.6 Paving - 2025

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	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0577	60.0577	0.0194	0.0000	60.5433
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0275	0.2575	0.4373	6.8000e-004		0.0126	0.0126		0.0116	0.0116	0.0000	60.0577	60.0577	0.0194	0.0000	60.5433

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	1.2500e-003	9.1000e-004	0.0134	4.0000e-005	4.6700e-003	3.0000e-005	4.7000e-003	1.2500e-003	3.0000e-005	1.2700e-003	0.0000	3.7977	3.7977	9.0000e-005	9.0000e-005	3.8263
Total	1.2500e-003	9.1000e-004	0.0134	4.0000e-005	4.6700e-003	3.0000e-005	4.7000e-003	1.2500e-003	3.0000e-005	1.2700e-003	0.0000	3.7977	3.7977	9.0000e-005	9.0000e-005	3.8263

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3.7 Architectural Coating - 2025

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	0.7022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	0.7086	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-003	3.7900e-003	0.0556	1.7000e-004	0.0206	1.2000e-004	0.0207	5.4600e-003	1.1000e-004	5.5600e-003	0.0000	15.8238	15.8238	3.6000e-004	3.7000e-004	15.9428
Total	5.2000e-003	3.7900e-003	0.0556	1.7000e-004	0.0206	1.2000e-004	0.0207	5.4600e-003	1.1000e-004	5.5600e-003	0.0000	15.8238	15.8238	3.6000e-004	3.7000e-004	15.9428

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3.7 Architectural Coating - 2025

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	0.7022					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4100e-003	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878
Total	0.7086	0.0430	0.0678	1.1000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	9.5747	9.5747	5.2000e-004	0.0000	9.5878

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-003	3.7900e-003	0.0556	1.7000e-004	0.0195	1.2000e-004	0.0196	5.1900e-003	1.1000e-004	5.3000e-003	0.0000	15.8238	15.8238	3.6000e-004	3.7000e-004	15.9428
Total	5.2000e-003	3.7900e-003	0.0556	1.7000e-004	0.0195	1.2000e-004	0.0196	5.1900e-003	1.1000e-004	5.3000e-003	0.0000	15.8238	15.8238	3.6000e-004	3.7000e-004	15.9428

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8105	0.9030	8.2907	0.0181	1.9794	0.0133	1.9927	0.5281	0.0124	0.5405	0.0000	1,719.010 4	1,719.010 4	0.1163	0.0731	1,743.698 4
Unmitigated	0.8105	0.9030	8.2907	0.0181	1.9794	0.0133	1.9927	0.5281	0.0124	0.5405	0.0000	1,719.010 4	1,719.010 4	0.1163	0.0731	1,743.698 4

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,449.10	1,449.10	1449.10	4,951,795	4,951,795
City Park	0.00	0.00	0.00		
Strip Mall	166.22	166.22	166.22	316,248	316,248
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	1,615.32	1,615.32	1,615.32	5,268,043	5,268,043

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 Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

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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
Unenclosed Parking Structure	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 Low Rise	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
City Park	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Strip Mall	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335
Unenclosed Parking Structure	0.540171	0.064547	0.189075	0.126673	0.023412	0.006384	0.010926	0.008089	0.000929	0.000597	0.025155	0.000706	0.003335

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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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
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	195.3190	195.3190	0.0165	2.0000e-003	196.3266
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	195.3190	195.3190	0.0165	2.0000e-003	196.3266
Natural Gas Mitigated	0.0184	0.1575	0.0671	1.0100e-003		0.0127	0.0127		0.0127	0.0127	0.0000	182.3674	182.3674	3.5000e-003	3.3400e-003	183.4511
Natural Gas Unmitigated	0.0184	0.1575	0.0671	1.0100e-003		0.0127	0.0127		0.0127	0.0127	0.0000	182.3674	182.3674	3.5000e-003	3.3400e-003	183.4511

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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 Low Rise	3.41245e+006	0.0184	0.1572	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	182.1012	182.1012	3.4900e-003	3.3400e-003	183.1833
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
Strip Mall	4987.8	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2662	0.2662	1.0000e-005	0.0000	0.2678
Unenclosed Parking Structure	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		0.0184	0.1575	0.0671	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	182.3674	182.3674	3.5000e-003	3.3400e-003	183.4511

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	3.41245e+006	0.0184	0.1572	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	182.1012	182.1012	3.4900e-003	3.3400e-003	183.1833
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
Strip Mall	4987.8	3.0000e-005	2.4000e-004	2.1000e-004	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.2662	0.2662	1.0000e-005	0.0000	0.2678
Unenclosed Parking Structure	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		0.0184	0.1575	0.0671	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	182.3674	182.3674	3.5000e-003	3.3400e-003	183.4511

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	868153	153.9630	0.0130	1.5800e-003	154.7573
City Park	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	39994.2	7.0928	6.0000e-004	7.0000e-005	7.1294
Unenclosed Parking Structure	193200	34.2632	2.8900e-003	3.5000e-004	34.4399
Total		195.3190	0.0165	2.0000e-003	196.3266

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	868153	153.9630	0.0130	1.5800e-003	154.7573
City Park	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	39994.2	7.0928	6.0000e-004	7.0000e-005	7.1294
Unenclosed Parking Structure	193200	34.2632	2.8900e-003	3.5000e-004	34.4399
Total		195.3190	0.0165	2.0000e-003	196.3266

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive 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	0.9377	0.0634	2.2348	3.6000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	47.5139	47.5139	4.3300e-003	8.0000e-004	47.8618
Unmitigated	0.9377	0.0634	2.2348	3.6000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	47.5139	47.5139	4.3300e-003	8.0000e-004	47.8618

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7962					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.4300e-003	0.0379	0.0161	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.8851	43.8851	8.4000e-004	8.0000e-004	44.1459
Landscaping	0.0668	0.0256	2.2187	1.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.6288	3.6288	3.4900e-003	0.0000	3.7160
Total	0.9377	0.0634	2.2348	3.6000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	47.5139	47.5139	4.3300e-003	8.0000e-004	47.8618

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6.2 Area by SubCategory

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	0.0702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7962					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.4300e-003	0.0379	0.0161	2.4000e-004		3.0600e-003	3.0600e-003		3.0600e-003	3.0600e-003	0.0000	43.8851	43.8851	8.4000e-004	8.0000e-004	44.1459
Landscaping	0.0668	0.0256	2.2187	1.2000e-004		0.0123	0.0123		0.0123	0.0123	0.0000	3.6288	3.6288	3.4900e-003	0.0000	3.7160
Total	0.9377	0.0634	2.2348	3.6000e-004		0.0154	0.0154		0.0154	0.0154	0.0000	47.5139	47.5139	4.3300e-003	8.0000e-004	47.8618

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

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	52.5015	0.3752	9.2600e-003	64.6416
Unmitigated	61.4466	0.4687	0.0115	76.6001

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	14.0081 / 8.8312	54.1921	0.4607	0.0113	69.0719
City Park	0 / 3.24083	6.3854	5.4000e-004	7.0000e-005	6.4184
Strip Mall	0.226662 / 0.138922	0.8690	7.4500e-003	1.8000e-004	1.1098
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		61.4466	0.4686	0.0115	76.6001

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	11.2065 / 8.2925	45.7723	0.3687	9.0500e-003	57.6886
City Park	0 / 3.04314	5.9959	5.1000e-004	6.0000e-005	6.0269
Strip Mall	0.18133 / 0.130448	0.7333	5.9700e-003	1.5000e-004	0.9261
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		52.5015	0.3752	9.2600e-003	64.6416

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	20.7741	1.2277	0.0000	51.4669
Unmitigated	20.7741	1.2277	0.0000	51.4669

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
Strip Mall	3.21	0.6516	0.0385	0.0000	1.6143
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		20.7741	1.2277	0.0000	51.4669

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	98.9	20.0758	1.1865	0.0000	49.7370
City Park	0.23	0.0467	2.7600e-003	0.0000	0.1157
Strip Mall	3.21	0.6516	0.0385	0.0000	1.6143
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		20.7741	1.2277	0.0000	51.4669

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Equipment Type	Number
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11.0 Vegetation
