

Appendix A

Air Quality and Greenhouse Gas Data and Modeling Results

Bay Area AQMD Air District, Annual

Off-road Equipment - Provided construction equipment list

4200 Geary Residential Project AQ - Bay Area AQMD Air District, Annual

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

Demolition - Demolish 35,848 square feet

Grading - Import 1,457 cubic yards

Architectural Coating - In compliance with BAAQMD Regulation 6, Rule 3. VOC limit of 100 g/L for nonflat coatings

Vehicle Trips - Default trip generation rates, the project would not have parking onsite

Woodstoves - No hearths

Energy Use - 100% electric development

Water And Wastewater - No septic tanks proposed. Water would be treated at a wastewater treatment plant (100% aerobic)

Construction Off-road Equipment Mitigation - BAAQMD Basic Construction Mitigation Measures

Energy Mitigation - Exceed Title 24 by 6.1 percent

Water Mitigation - Calgreen indoor water improvements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	150.00
tblConstructionPhase	NumDays	100.00	392.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	150.00
tblConstructionPhase	NumDays	1.00	35.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24NG	5,828.01	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	14.70	0.00
tblFireplaces	NumberNoFireplace	3.92	0.00
tblFireplaces	NumberWood	16.66	0.00
tblGrading	MaterialImported	0.00	1,475.00

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

tblLandUse	LandUseSquareFeet	98,000.00	79,529.00
tblLandUse	LotAcreage	2.58	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	203.98	203.983
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.96	0.00
tblWoodstoves	NumberNoncatalytic	1.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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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					
2022	0.1534	1.3054	1.4733	2.6900e-003	0.1808	0.0637	0.2445	0.0803	0.0614	0.1417	0.0000	233.4362	233.4362	0.0353	2.7400e-003	235.1365
2023	0.8842	3.8266	5.2306	9.1500e-003	0.0909	0.1730	0.2638	0.0244	0.1672	0.1915	0.0000	785.7725	785.7725	0.1219	5.5700e-003	790.4779
2024	0.2337	1.2253	1.7473	3.0700e-003	0.0307	0.0519	0.0826	8.2400e-003	0.0502	0.0584	0.0000	264.1246	264.1246	0.0389	1.8800e-003	265.6564
Maximum	0.8842	3.8266	5.2306	9.1500e-003	0.1808	0.1730	0.2638	0.0803	0.1672	0.1915	0.0000	785.7725	785.7725	0.1219	5.5700e-003	790.4779

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1534	1.3054	1.4733	2.6900e-003	0.0934	0.0637	0.1571	0.0394	0.0614	0.1007	0.0000	233.4360	233.4360	0.0353	2.7400e-003	235.1363
2023	0.8842	3.8266	5.2306	9.1500e-003	0.0909	0.1730	0.2638	0.0244	0.1672	0.1915	0.0000	785.7717	785.7717	0.1219	5.5700e-003	790.4770
2024	0.2337	1.2253	1.7473	3.0700e-003	0.0307	0.0519	0.0826	8.2400e-003	0.0502	0.0584	0.0000	264.1243	264.1243	0.0389	1.8800e-003	265.6561
Maximum	0.8842	3.8266	5.2306	9.1500e-003	0.0934	0.1730	0.2638	0.0394	0.1672	0.1915	0.0000	785.7717	785.7717	0.1219	5.5700e-003	790.4770

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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
Percent Reduction	0.00	0.00	0.00	0.00	28.91	0.00	14.79	36.26	0.00	10.46	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	9-12-2022	12-11-2022	1.1398	1.1398
2	12-12-2022	3-11-2023	0.9735	0.9735
3	3-12-2023	6-11-2023	0.9774	0.9774
4	6-12-2023	9-11-2023	1.2852	1.2852
5	9-12-2023	12-11-2023	1.4062	1.4062
6	12-12-2023	3-11-2024	1.1871	1.1871
7	3-12-2024	6-11-2024	0.5725	0.5725
		Highest	1.4062	1.4062

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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	0.3885	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	35.2395	35.2395	5.7000e-003	6.9000e-004	35.5880
Mobile	0.2112	0.2368	1.9576	4.0200e-003	0.4314	3.0000e-003	0.4344	0.1153	2.7900e-003	0.1181	0.0000	377.5876	377.5876	0.0251	0.0183	383.6702
Waste						0.0000	0.0000		0.0000	0.0000	9.1508	0.0000	9.1508	0.5408	0.0000	22.6708
Water						0.0000	0.0000		0.0000	0.0000	2.2591	4.5003	6.7594	8.5000e-003	5.0000e-003	8.4622
Total	0.5997	0.2452	2.6849	4.0600e-003	0.4314	7.0300e-003	0.4385	0.1153	6.8200e-003	0.1221	11.4099	418.5160	429.9259	0.5812	0.0240	451.6084

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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	0.3885	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	35.1893	35.1893	5.6900e-003	6.9000e-004	35.5372
Mobile	0.2112	0.2368	1.9576	4.0200e-003	0.4314	3.0000e-003	0.4344	0.1153	2.7900e-003	0.1181	0.0000	377.5876	377.5876	0.0251	0.0183	383.6702
Waste						0.0000	0.0000		0.0000	0.0000	9.1508	0.0000	9.1508	0.5408	0.0000	22.6708
Water						0.0000	0.0000		0.0000	0.0000	1.8073	3.8610	5.6682	6.8400e-003	4.0100e-003	7.0331
Total	0.5997	0.2452	2.6849	4.0600e-003	0.4314	7.0300e-003	0.4385	0.1153	6.8200e-003	0.1221	10.9581	417.8264	428.7845	0.5796	0.0230	450.1285

	ROG	NOx	CO	SO2	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	3.96	0.16	0.27	0.29	4.13	0.33

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/4/2022	10/21/2022	5	35	
2	Demolition	Demolition	9/12/2022	10/21/2022	5	30	
3	Grading	Grading	10/24/2022	11/4/2022	5	10	

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4	Building Construction	Building Construction	11/5/2022	5/7/2024	5	392
5	Paving	Paving	7/10/2023	2/2/2024	5	150
6	Architectural Coating	Architectural Coating	7/10/2023	2/4/2024	5	150

Acres of Grading (Site Preparation Phase): 17.5**Acres of Grading (Grading Phase): 7.5****Acres of Paving: 0****Residential Indoor: 161,046; Residential Outdoor: 53,682; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Concrete/Industrial Saws	2	8.00	81	0.73
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Signal Boards	1	8.00	6	0.82
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Signal Boards	1	7.00	6	0.82
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	6.00	187	0.41

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

Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Signal Boards	1	8.00	6	0.82
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Concrete/Industrial Saws	2	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	2	1.00	13	0.30
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Signal Boards	1	8.00	6	0.82
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Aerial Lifts	4	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Signal Boards	1	8.00	6	0.82

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

Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
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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
Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	9	23.00	0.00	163.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	184.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	19	71.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1147	0.0000	0.1147	0.0589	0.0000	0.0589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.3413	0.3220	5.7000e-004		0.0167	0.0167		0.0159	0.0159	0.0000	49.4345	49.4345	0.0106	0.0000	49.6990
Total	0.0368	0.3413	0.3220	5.7000e-004	0.1147	0.0167	0.1314	0.0589	0.0159	0.0748	0.0000	49.4345	49.4345	0.0106	0.0000	49.6990

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

3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452
Total	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452

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					0.0516	0.0000	0.0516	0.0265	0.0000	0.0265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.3413	0.3220	5.7000e-004		0.0167	0.0167		0.0159	0.0159	0.0000	49.4344	49.4344	0.0106	0.0000	49.6990
Total	0.0368	0.3413	0.3220	5.7000e-004	0.0516	0.0167	0.0683	0.0265	0.0159	0.0424	0.0000	49.4344	49.4344	0.0106	0.0000	49.6990

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

3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452
Total	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452

3.3 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0176	0.0000	0.0176	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.2634	0.3273	5.5000e-004		0.0140	0.0140		0.0138	0.0138	0.0000	46.8998	46.8998	4.7100e-003	0.0000	47.0175
Total	0.0330	0.2634	0.3273	5.5000e-004	0.0176	0.0140	0.0317	2.6700e-003	0.0138	0.0165	0.0000	46.8998	46.8998	4.7100e-003	0.0000	47.0175

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

3.3 Demolition - 2022

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	3.8000e-004	0.0140	2.9800e-003	5.0000e-005	1.3800e-003	1.3000e-004	1.5000e-003	3.8000e-004	1.2000e-004	5.0000e-004	0.0000	5.1088	5.1088	1.7000e-004	8.1000e-004	5.3541
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	6.8000e-004	8.2500e-003	2.0000e-005	2.7300e-003	1.0000e-005	2.7400e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1925	2.1925	7.0000e-005	6.0000e-005	2.2131
Total	1.3300e-003	0.0147	0.0112	7.0000e-005	4.1100e-003	1.4000e-004	4.2400e-003	1.1100e-003	1.3000e-004	1.2400e-003	0.0000	7.3013	7.3013	2.4000e-004	8.7000e-004	7.5672

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					7.9400e-003	0.0000	7.9400e-003	1.2000e-003	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.2634	0.3273	5.5000e-004		0.0140	0.0140		0.0138	0.0138	0.0000	46.8997	46.8997	4.7100e-003	0.0000	47.0175
Total	0.0330	0.2634	0.3273	5.5000e-004	7.9400e-003	0.0140	0.0220	1.2000e-003	0.0138	0.0150	0.0000	46.8997	46.8997	4.7100e-003	0.0000	47.0175

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3.3 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0140	2.9800e-003	5.0000e-005	1.3800e-003	1.3000e-004	1.5000e-003	3.8000e-004	1.2000e-004	5.0000e-004	0.0000	5.1088	5.1088	1.7000e-004	8.1000e-004	5.3541
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	6.8000e-004	8.2500e-003	2.0000e-005	2.7300e-003	1.0000e-005	2.7400e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1925	2.1925	7.0000e-005	6.0000e-005	2.2131
Total	1.3300e-003	0.0147	0.0112	7.0000e-005	4.1100e-003	1.4000e-004	4.2400e-003	1.1100e-003	1.3000e-004	1.2400e-003	0.0000	7.3013	7.3013	2.4000e-004	8.7000e-004	7.5672

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0266	0.0000	0.0266	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.1003	0.0831	1.5000e-004		4.7500e-003	4.7500e-003		4.3800e-003	4.3800e-003	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1606
Total	9.5800e-003	0.1003	0.0831	1.5000e-004	0.0266	4.7500e-003	0.0314	0.0129	4.3800e-003	0.0172	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1606

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3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	0.0158	3.3700e-003	6.0000e-005	1.5600e-003	1.4000e-004	1.7000e-003	4.3000e-004	1.4000e-004	5.6000e-004	0.0000	5.7670	5.7670	1.9000e-004	9.1000e-004	6.0439
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.3000e-004	2.7500e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7308	0.7308	2.0000e-005	2.0000e-005	0.7377
Total	7.5000e-004	0.0161	6.1200e-003	7.0000e-005	2.4700e-003	1.4000e-004	2.6100e-003	6.7000e-004	1.4000e-004	8.1000e-004	0.0000	6.4978	6.4978	2.1000e-004	9.3000e-004	6.7816

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					0.0120	0.0000	0.0120	5.7800e-003	0.0000	5.7800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.1003	0.0831	1.5000e-004		4.7500e-003	4.7500e-003		4.3800e-003	4.3800e-003	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1605
Total	9.5800e-003	0.1003	0.0831	1.5000e-004	0.0120	4.7500e-003	0.0167	5.7800e-003	4.3800e-003	0.0102	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1605

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3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	0.0158	3.3700e-003	6.0000e-005	1.5600e-003	1.4000e-004	1.7000e-003	4.3000e-004	1.4000e-004	5.6000e-004	0.0000	5.7670	5.7670	1.9000e-004	9.1000e-004	6.0439
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.3000e-004	2.7500e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7308	0.7308	2.0000e-005	2.0000e-005	0.7377
Total	7.5000e-004	0.0161	6.1200e-003	7.0000e-005	2.4700e-003	1.4000e-004	2.6100e-003	6.7000e-004	1.4000e-004	8.1000e-004	0.0000	6.4978	6.4978	2.1000e-004	9.3000e-004	6.7816

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8790	94.8790	0.0150	0.0000	95.2533
Total	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8790	94.8790	0.0150	0.0000	95.2533

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3.5 Building Construction - 2022

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	4.3000e-004	0.0112	3.2500e-003	4.0000e-005	1.3100e-003	1.2000e-004	1.4300e-003	3.8000e-004	1.1000e-004	4.9000e-004	0.0000	4.1191	4.1191	9.0000e-005	6.1000e-004	4.3033
Worker	3.9000e-003	2.8100e-003	0.0340	1.0000e-004	0.0112	6.0000e-005	0.0113	2.9900e-003	6.0000e-005	3.0400e-003	0.0000	9.0243	9.0243	2.8000e-004	2.6000e-004	9.1089
Total	4.3300e-003	0.0140	0.0372	1.4000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5300e-003	0.0000	13.1434	13.1434	3.7000e-004	8.7000e-004	13.4122

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	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8788	94.8788	0.0150	0.0000	95.2532
Total	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8788	94.8788	0.0150	0.0000	95.2532

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3.5 Building Construction - 2022

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	4.3000e-004	0.0112	3.2500e-003	4.0000e-005	1.3100e-003	1.2000e-004	1.4300e-003	3.8000e-004	1.1000e-004	4.9000e-004	0.0000	4.1191	4.1191	9.0000e-005	6.1000e-004	4.3033
Worker	3.9000e-003	2.8100e-003	0.0340	1.0000e-004	0.0112	6.0000e-005	0.0113	2.9900e-003	6.0000e-005	3.0400e-003	0.0000	9.0243	9.0243	2.8000e-004	2.6000e-004	9.1089
Total	4.3300e-003	0.0140	0.0372	1.4000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5300e-003	0.0000	13.1434	13.1434	3.7000e-004	8.7000e-004	13.4122

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4036	3.3655	4.3912	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7982	616.7982	0.0952	0.0000	619.1788
Total	0.4036	3.3655	4.3912	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7982	616.7982	0.0952	0.0000	619.1788

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2023****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	1.3900e-003	0.0578	0.0181	2.6000e-004	8.5300e-003	3.4000e-004	8.8700e-003	2.4700e-003	3.2000e-004	2.7900e-003	0.0000	25.6614	25.6614	5.2000e-004	3.8000e-003	26.8057
Worker	0.0236	0.0162	0.2047	6.2000e-004	0.0729	3.8000e-004	0.0733	0.0194	3.5000e-004	0.0198	0.0000	57.1613	57.1613	1.6400e-003	1.5700e-003	57.6698
Total	0.0250	0.0740	0.2228	8.8000e-004	0.0815	7.2000e-004	0.0822	0.0219	6.7000e-004	0.0225	0.0000	82.8227	82.8227	2.1600e-003	5.3700e-003	84.4755

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	0.4036	3.3655	4.3911	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7974	616.7974	0.0952	0.0000	619.1781
Total	0.4036	3.3655	4.3911	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7974	616.7974	0.0952	0.0000	619.1781

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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					
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	1.3900e-003	0.0578	0.0181	2.6000e-004	8.5300e-003	3.4000e-004	8.8700e-003	2.4700e-003	3.2000e-004	2.7900e-003	0.0000	25.6614	25.6614	5.2000e-004	3.8000e-003	26.8057
Worker	0.0236	0.0162	0.2047	6.2000e-004	0.0729	3.8000e-004	0.0733	0.0194	3.5000e-004	0.0198	0.0000	57.1613	57.1613	1.6400e-003	1.5700e-003	57.6698
Total	0.0250	0.0740	0.2228	8.8000e-004	0.0815	7.2000e-004	0.0822	0.0219	6.7000e-004	0.0225	0.0000	82.8227	82.8227	2.1600e-003	5.3700e-003	84.4755

3.5 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	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2644	218.2644	0.0333	0.0000	219.0969
Total	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2644	218.2644	0.0333	0.0000	219.0969

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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					
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	4.8000e-004	0.0205	6.2600e-003	9.0000e-005	3.0200e-003	1.2000e-004	3.1400e-003	8.7000e-004	1.2000e-004	9.9000e-004	0.0000	8.9387	8.9387	1.8000e-004	1.3200e-003	9.3373
Worker	7.8200e-003	5.1100e-003	0.0677	2.1000e-004	0.0258	1.3000e-004	0.0259	6.8700e-003	1.2000e-004	6.9800e-003	0.0000	19.7274	19.7274	5.3000e-004	5.2000e-004	19.8947
Total	8.3000e-003	0.0256	0.0739	3.0000e-004	0.0288	2.5000e-004	0.0291	7.7400e-003	2.4000e-004	7.9700e-003	0.0000	28.6661	28.6661	7.1000e-004	1.8400e-003	29.2320

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	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2641	218.2641	0.0333	0.0000	219.0966
Total	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2641	218.2641	0.0333	0.0000	219.0966

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3.5 Building Construction - 2024

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	4.8000e-004	0.0205	6.2600e-003	9.0000e-005	3.0200e-003	1.2000e-004	3.1400e-003	8.7000e-004	1.2000e-004	9.9000e-004	0.0000	8.9387	8.9387	1.8000e-004	1.3200e-003	9.3373
Worker	7.8200e-003	5.1100e-003	0.0677	2.1000e-004	0.0258	1.3000e-004	0.0259	6.8700e-003	1.2000e-004	6.9800e-003	0.0000	19.7274	19.7274	5.3000e-004	5.2000e-004	19.8947
Total	8.3000e-003	0.0256	0.0739	3.0000e-004	0.0288	2.5000e-004	0.0291	7.7400e-003	2.4000e-004	7.9700e-003	0.0000	28.6661	28.6661	7.1000e-004	1.8400e-003	29.2320

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500

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3.6 Paving - 2023

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	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525
Total	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525

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	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500

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3.6 Paving - 2023

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	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525
Total	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700

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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					
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	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807
Total	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807

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	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700

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3.6 Paving - 2024

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	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807
Total	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6356	53.6356	0.0167	0.0000	54.0539
Total	0.4383	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6356	53.6356	0.0167	0.0000	54.0539

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3.7 Architectural Coating - 2023

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	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671
Total	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671

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	0.4147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6355	53.6355	0.0167	0.0000	54.0538
Total	0.4383	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6355	53.6355	0.0167	0.0000	54.0538

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671
Total	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108
Total	0.0875	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108

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

3.7 Architectural Coating - 2024

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	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660
Total	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660

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	0.0829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108
Total	0.0875	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.7 Architectural Coating - 2024****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	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660
Total	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660

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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	tons/yr										MT/yr					
Mitigated	0.2112	0.2368	1.9576	4.0200e-003	0.4314	3.0000e-003	0.4344	0.1153	2.7900e-003	0.1181	0.0000	377.5876	377.5876	0.0251	0.0183	383.6702
Unmitigated	0.2112	0.2368	1.9576	4.0200e-003	0.4314	3.0000e-003	0.4344	0.1153	2.7900e-003	0.1181	0.0000	377.5876	377.5876	0.0251	0.0183	383.6702

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	533.12	481.18	400.82	1,170,509	1,170,509
Total	533.12	481.18	400.82	1,170,509	1,170,509

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.553342	0.058522	0.188738	0.121080	0.023016	0.005623	0.010412	0.007562	0.000987	0.000568	0.026444	0.000834	0.002871

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

Historical Energy Use: N

Exceed Title 24

[illegible]

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

Unmitigated

[illegible]

Mitigated

[illegible]

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	380864	35.2395	5.7000e-003	6.9000e-004	35.5880
Total		35.2395	5.7000e-003	6.9000e-004	35.5880

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	380321	35.1893	5.6900e-003	6.9000e-004	35.5372
Total		35.1893	5.6900e-003	6.9000e-004	35.5372

6.0 Area Detail**6.1 Mitigation Measures Area**

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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					
Mitigated	0.3885	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171
Unmitigated	0.3885	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171

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	0.0560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0219	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171
Total	0.3885	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171

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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	tons/yr										MT/yr					
Architectural Coating	0.0560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0219	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171
Total	0.3885	8.3800e-003	0.7274	4.0000e-005		4.0300e-003	4.0300e-003		4.0300e-003	4.0300e-003	0.0000	1.1886	1.1886	1.1400e-003	0.0000	1.2171

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.6682	6.8400e-003	4.0100e-003	7.0331
Unmitigated	6.7594	8.5000e-003	5.0000e-003	8.4622

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.38509 / 4.02539	6.7594	8.5000e-003	5.0000e-003	8.4622
Total		6.7594	8.5000e-003	5.0000e-003	8.4622

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.10808 / 4.02539	5.6682	6.8400e-003	4.0100e-003	7.0331
Total		5.6682	6.8400e-003	4.0100e-003	7.0331

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.1508	0.5408	0.0000	22.6708
Unmitigated	9.1508	0.5408	0.0000	22.6708

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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****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	45.08	9.1508	0.5408	0.0000	22.6708
Total		9.1508	0.5408	0.0000	22.6708

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	45.08	9.1508	0.5408	0.0000	22.6708
Total		9.1508	0.5408	0.0000	22.6708

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

Off-road Equipment - Provided construction equipment list

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

Demolition - Demolish 35,848 square feet

Grading - Import 1,457 cubic yards

Architectural Coating - In compliance with BAAQMD Regulation 6, Rule 3. VOC limit of 100 g/L for nonflat coatings

Vehicle Trips - Default trip generation rates, the project would not have parking onsite

Woodstoves - No hearths

Energy Use - 100% electric development

Water And Wastewater - No septic tanks proposed. Water would be treated at a wastewater treatment plant (100% aerobic)

Construction Off-road Equipment Mitigation - BAAQMD Basic Construction Mitigation Measures

Energy Mitigation - Exceed Title 24 by 6.1 percent

Water Mitigation - Calgreen indoor water improvements

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	5.00	150.00
tblConstructionPhase	NumDays	100.00	392.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	10.00
tblConstructionPhase	NumDays	5.00	150.00
tblConstructionPhase	NumDays	1.00	35.00
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	T24NG	5,828.01	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	14.70	0.00
tblFireplaces	NumberNoFireplace	3.92	0.00
tblFireplaces	NumberWood	16.66	0.00
tblGrading	MaterialImported	0.00	1,475.00

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

tblLandUse	LandUseSquareFeet	98,000.00	79,529.00
tblLandUse	LotAcreage	2.58	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	1.96	0.00
tblWoodstoves	NumberNoncatalytic	1.96	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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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					
2022	0.1534	1.3054	1.4733	2.6900e-003	0.1808	0.0637	0.2445	0.0803	0.0614	0.1417	0.0000	233.4362	233.4362	0.0353	2.7400e-003	235.1365
2023	0.8842	3.8266	5.2306	9.1500e-003	0.0909	0.1730	0.2638	0.0244	0.1672	0.1915	0.0000	785.7725	785.7725	0.1219	5.5700e-003	790.4779
2024	0.2337	1.2253	1.7473	3.0700e-003	0.0307	0.0519	0.0826	8.2400e-003	0.0502	0.0584	0.0000	264.1246	264.1246	0.0389	1.8800e-003	265.6564
Maximum	0.8842	3.8266	5.2306	9.1500e-003	0.1808	0.1730	0.2638	0.0803	0.1672	0.1915	0.0000	785.7725	785.7725	0.1219	5.5700e-003	790.4779

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1534	1.3054	1.4733	2.6900e-003	0.0934	0.0637	0.1571	0.0394	0.0614	0.1007	0.0000	233.4360	233.4360	0.0353	2.7400e-003	235.1363
2023	0.8842	3.8266	5.2306	9.1500e-003	0.0909	0.1730	0.2638	0.0244	0.1672	0.1915	0.0000	785.7717	785.7717	0.1219	5.5700e-003	790.4770
2024	0.2337	1.2253	1.7473	3.0700e-003	0.0307	0.0519	0.0826	8.2400e-003	0.0502	0.0584	0.0000	264.1243	264.1243	0.0389	1.8800e-003	265.6561
Maximum	0.8842	3.8266	5.2306	9.1500e-003	0.0934	0.1730	0.2638	0.0394	0.1672	0.1915	0.0000	785.7717	785.7717	0.1219	5.5700e-003	790.4770

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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
Percent Reduction	0.00	0.00	0.00	0.00	28.91	0.00	14.79	36.26	0.00	10.46	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	9-12-2022	12-11-2022	1.1398	1.1398
2	12-12-2022	3-11-2023	0.9735	0.9735
3	3-12-2023	6-11-2023	0.9774	0.9774
4	6-12-2023	9-11-2023	1.2852	1.2852
5	9-12-2023	12-11-2023	1.4062	1.4062
6	12-12-2023	3-11-2024	1.1871	1.1871
7	3-12-2024	6-11-2024	0.5725	0.5725
		Highest	1.4062	1.4062

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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	0.3883	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	35.2390	35.2390	5.7000e-003	6.9000e-004	35.5875
Mobile	0.1701	0.1833	1.6270	3.4300e-003	0.4315	2.2800e-003	0.4338	0.1153	2.1300e-003	0.1174	0.0000	334.0862	334.0862	0.0203	0.0153	339.1634
Waste						0.0000	0.0000		0.0000	0.0000	9.1508	0.0000	9.1508	0.5408	0.0000	22.6708
Water						0.0000	0.0000		0.0000	0.0000	2.2591	4.5002	6.7593	8.5000e-003	5.0000e-003	8.4622
Total	0.5584	0.1916	2.3527	3.4700e-003	0.4315	6.3200e-003	0.4378	0.1153	6.1700e-003	0.1215	11.4099	375.0141	386.4239	0.5764	0.0210	407.1007

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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	0.3883	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	35.1888	35.1888	5.6900e-003	6.9000e-004	35.5367
Mobile	0.1701	0.1833	1.6270	3.4300e-003	0.4315	2.2800e-003	0.4338	0.1153	2.1300e-003	0.1174	0.0000	334.0862	334.0862	0.0203	0.0153	339.1634
Waste						0.0000	0.0000		0.0000	0.0000	9.1508	0.0000	9.1508	0.5408	0.0000	22.6708
Water						0.0000	0.0000		0.0000	0.0000	1.8073	3.8609	5.6681	6.8400e-003	4.0100e-003	7.0330
Total	0.5584	0.1916	2.3527	3.4700e-003	0.4315	6.3200e-003	0.4378	0.1153	6.1700e-003	0.1215	10.9581	374.3245	385.2826	0.5747	0.0200	405.6208

	ROG	NOx	CO	SO2	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	3.96	0.18	0.30	0.29	4.71	0.36

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/4/2022	10/21/2022	5	35	
2	Demolition	Demolition	9/12/2022	10/21/2022	5	30	
3	Grading	Grading	10/24/2022	11/4/2022	5	10	

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

4	Building Construction	Building Construction	11/5/2022	5/7/2024	5	392
5	Paving	Paving	7/10/2023	2/2/2024	5	150
6	Architectural Coating	Architectural Coating	7/10/2023	2/4/2024	5	150

Acres of Grading (Site Preparation Phase): 17.5**Acres of Grading (Grading Phase): 7.5****Acres of Paving: 0****Residential Indoor: 161,046; Residential Outdoor: 53,682; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Cement and Mortar Mixers	1	8.00	9	0.56
Site Preparation	Concrete/Industrial Saws	2	8.00	81	0.73
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Signal Boards	1	8.00	6	0.82
Site Preparation	Skid Steer Loaders	1	8.00	65	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Air Compressors	1	8.00	78	0.48
Demolition	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Signal Boards	1	7.00	6	0.82
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	6.00	187	0.41

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

Grading	Rollers	1	8.00	80	0.38
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Signal Boards	1	8.00	6	0.82
Grading	Skid Steer Loaders	1	8.00	65	0.37
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Aerial Lifts	2	8.00	63	0.31
Building Construction	Air Compressors	1	8.00	78	0.48
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Concrete/Industrial Saws	2	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pressure Washers	2	1.00	13	0.30
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Signal Boards	1	8.00	6	0.82
Building Construction	Sweepers/Scrubbers	1	8.00	64	0.46
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	0	7.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Signal Boards	1	8.00	6	0.82
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Aerial Lifts	4	8.00	63	0.31
Architectural Coating	Air Compressors	0	6.00	78	0.48
Architectural Coating	Signal Boards	1	8.00	6	0.82

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

Architectural Coating	Sweepers/Scrubbers	1	8.00	64	0.46
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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
Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	9	23.00	0.00	163.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	184.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	19	71.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	14.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1147	0.0000	0.1147	0.0589	0.0000	0.0589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.3413	0.3220	5.7000e-004		0.0167	0.0167		0.0159	0.0159	0.0000	49.4345	49.4345	0.0106	0.0000	49.6990
Total	0.0368	0.3413	0.3220	5.7000e-004	0.1147	0.0167	0.1314	0.0589	0.0159	0.0748	0.0000	49.4345	49.4345	0.0106	0.0000	49.6990

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

3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452
Total	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452

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					0.0516	0.0000	0.0516	0.0265	0.0000	0.0265	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.3413	0.3220	5.7000e-004		0.0167	0.0167		0.0159	0.0159	0.0000	49.4344	49.4344	0.0106	0.0000	49.6990
Total	0.0368	0.3413	0.3220	5.7000e-004	0.0516	0.0167	0.0683	0.0265	0.0159	0.0424	0.0000	49.4344	49.4344	0.0106	0.0000	49.6990

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3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452
Total	9.6000e-004	6.9000e-004	8.3700e-003	2.0000e-005	2.7700e-003	2.0000e-005	2.7800e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.2243	2.2243	7.0000e-005	6.0000e-005	2.2452

3.3 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0176	0.0000	0.0176	2.6700e-003	0.0000	2.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.2634	0.3273	5.5000e-004		0.0140	0.0140		0.0138	0.0138	0.0000	46.8998	46.8998	4.7100e-003	0.0000	47.0175
Total	0.0330	0.2634	0.3273	5.5000e-004	0.0176	0.0140	0.0317	2.6700e-003	0.0138	0.0165	0.0000	46.8998	46.8998	4.7100e-003	0.0000	47.0175

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3.3 Demolition - 2022

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	3.8000e-004	0.0140	2.9800e-003	5.0000e-005	1.3800e-003	1.3000e-004	1.5000e-003	3.8000e-004	1.2000e-004	5.0000e-004	0.0000	5.1088	5.1088	1.7000e-004	8.1000e-004	5.3541
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	6.8000e-004	8.2500e-003	2.0000e-005	2.7300e-003	1.0000e-005	2.7400e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1925	2.1925	7.0000e-005	6.0000e-005	2.2131
Total	1.3300e-003	0.0147	0.0112	7.0000e-005	4.1100e-003	1.4000e-004	4.2400e-003	1.1100e-003	1.3000e-004	1.2400e-003	0.0000	7.3013	7.3013	2.4000e-004	8.7000e-004	7.5672

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					7.9400e-003	0.0000	7.9400e-003	1.2000e-003	0.0000	1.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.2634	0.3273	5.5000e-004		0.0140	0.0140		0.0138	0.0138	0.0000	46.8997	46.8997	4.7100e-003	0.0000	47.0175
Total	0.0330	0.2634	0.3273	5.5000e-004	7.9400e-003	0.0140	0.0220	1.2000e-003	0.0138	0.0150	0.0000	46.8997	46.8997	4.7100e-003	0.0000	47.0175

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3.3 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0140	2.9800e-003	5.0000e-005	1.3800e-003	1.3000e-004	1.5000e-003	3.8000e-004	1.2000e-004	5.0000e-004	0.0000	5.1088	5.1088	1.7000e-004	8.1000e-004	5.3541
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	6.8000e-004	8.2500e-003	2.0000e-005	2.7300e-003	1.0000e-005	2.7400e-003	7.3000e-004	1.0000e-005	7.4000e-004	0.0000	2.1925	2.1925	7.0000e-005	6.0000e-005	2.2131
Total	1.3300e-003	0.0147	0.0112	7.0000e-005	4.1100e-003	1.4000e-004	4.2400e-003	1.1100e-003	1.3000e-004	1.2400e-003	0.0000	7.3013	7.3013	2.4000e-004	8.7000e-004	7.5672

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0266	0.0000	0.0266	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.1003	0.0831	1.5000e-004		4.7500e-003	4.7500e-003		4.3800e-003	4.3800e-003	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1606
Total	9.5800e-003	0.1003	0.0831	1.5000e-004	0.0266	4.7500e-003	0.0314	0.0129	4.3800e-003	0.0172	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1606

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3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	0.0158	3.3700e-003	6.0000e-005	1.5600e-003	1.4000e-004	1.7000e-003	4.3000e-004	1.4000e-004	5.6000e-004	0.0000	5.7670	5.7670	1.9000e-004	9.1000e-004	6.0439
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.3000e-004	2.7500e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7308	0.7308	2.0000e-005	2.0000e-005	0.7377
Total	7.5000e-004	0.0161	6.1200e-003	7.0000e-005	2.4700e-003	1.4000e-004	2.6100e-003	6.7000e-004	1.4000e-004	8.1000e-004	0.0000	6.4978	6.4978	2.1000e-004	9.3000e-004	6.7816

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					0.0120	0.0000	0.0120	5.7800e-003	0.0000	5.7800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5800e-003	0.1003	0.0831	1.5000e-004		4.7500e-003	4.7500e-003		4.3800e-003	4.3800e-003	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1605
Total	9.5800e-003	0.1003	0.0831	1.5000e-004	0.0120	4.7500e-003	0.0167	5.7800e-003	4.3800e-003	0.0102	0.0000	13.0562	13.0562	4.1700e-003	0.0000	13.1605

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3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3000e-004	0.0158	3.3700e-003	6.0000e-005	1.5600e-003	1.4000e-004	1.7000e-003	4.3000e-004	1.4000e-004	5.6000e-004	0.0000	5.7670	5.7670	1.9000e-004	9.1000e-004	6.0439
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.3000e-004	2.7500e-003	1.0000e-005	9.1000e-004	0.0000	9.1000e-004	2.4000e-004	0.0000	2.5000e-004	0.0000	0.7308	0.7308	2.0000e-005	2.0000e-005	0.7377
Total	7.5000e-004	0.0161	6.1200e-003	7.0000e-005	2.4700e-003	1.4000e-004	2.6100e-003	6.7000e-004	1.4000e-004	8.1000e-004	0.0000	6.4978	6.4978	2.1000e-004	9.3000e-004	6.7816

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8790	94.8790	0.0150	0.0000	95.2533
Total	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8790	94.8790	0.0150	0.0000	95.2533

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3.5 Building Construction - 2022

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	4.3000e-004	0.0112	3.2500e-003	4.0000e-005	1.3100e-003	1.2000e-004	1.4300e-003	3.8000e-004	1.1000e-004	4.9000e-004	0.0000	4.1191	4.1191	9.0000e-005	6.1000e-004	4.3033
Worker	3.9000e-003	2.8100e-003	0.0340	1.0000e-004	0.0112	6.0000e-005	0.0113	2.9900e-003	6.0000e-005	3.0400e-003	0.0000	9.0243	9.0243	2.8000e-004	2.6000e-004	9.1089
Total	4.3300e-003	0.0140	0.0372	1.4000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5300e-003	0.0000	13.1434	13.1434	3.7000e-004	8.7000e-004	13.4122

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	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8788	94.8788	0.0150	0.0000	95.2532
Total	0.0666	0.5549	0.6780	1.1200e-003		0.0277	0.0277		0.0269	0.0269	0.0000	94.8788	94.8788	0.0150	0.0000	95.2532

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3.5 Building Construction - 2022

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	4.3000e-004	0.0112	3.2500e-003	4.0000e-005	1.3100e-003	1.2000e-004	1.4300e-003	3.8000e-004	1.1000e-004	4.9000e-004	0.0000	4.1191	4.1191	9.0000e-005	6.1000e-004	4.3033
Worker	3.9000e-003	2.8100e-003	0.0340	1.0000e-004	0.0112	6.0000e-005	0.0113	2.9900e-003	6.0000e-005	3.0400e-003	0.0000	9.0243	9.0243	2.8000e-004	2.6000e-004	9.1089
Total	4.3300e-003	0.0140	0.0372	1.4000e-004	0.0125	1.8000e-004	0.0127	3.3700e-003	1.7000e-004	3.5300e-003	0.0000	13.1434	13.1434	3.7000e-004	8.7000e-004	13.4122

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4036	3.3655	4.3912	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7982	616.7982	0.0952	0.0000	619.1788
Total	0.4036	3.3655	4.3912	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7982	616.7982	0.0952	0.0000	619.1788

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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					
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	1.3900e-003	0.0578	0.0181	2.6000e-004	8.5300e-003	3.4000e-004	8.8700e-003	2.4700e-003	3.2000e-004	2.7900e-003	0.0000	25.6614	25.6614	5.2000e-004	3.8000e-003	26.8057
Worker	0.0236	0.0162	0.2047	6.2000e-004	0.0729	3.8000e-004	0.0733	0.0194	3.5000e-004	0.0198	0.0000	57.1613	57.1613	1.6400e-003	1.5700e-003	57.6698
Total	0.0250	0.0740	0.2228	8.8000e-004	0.0815	7.2000e-004	0.0822	0.0219	6.7000e-004	0.0225	0.0000	82.8227	82.8227	2.1600e-003	5.3700e-003	84.4755

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	0.4036	3.3655	4.3911	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7974	616.7974	0.0952	0.0000	619.1781
Total	0.4036	3.3655	4.3911	7.2700e-003		0.1565	0.1565		0.1518	0.1518	0.0000	616.7974	616.7974	0.0952	0.0000	619.1781

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2023****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	1.3900e-003	0.0578	0.0181	2.6000e-004	8.5300e-003	3.4000e-004	8.8700e-003	2.4700e-003	3.2000e-004	2.7900e-003	0.0000	25.6614	25.6614	5.2000e-004	3.8000e-003	26.8057
Worker	0.0236	0.0162	0.2047	6.2000e-004	0.0729	3.8000e-004	0.0733	0.0194	3.5000e-004	0.0198	0.0000	57.1613	57.1613	1.6400e-003	1.5700e-003	57.6698
Total	0.0250	0.0740	0.2228	8.8000e-004	0.0815	7.2000e-004	0.0822	0.0219	6.7000e-004	0.0225	0.0000	82.8227	82.8227	2.1600e-003	5.3700e-003	84.4755

3.5 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	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2644	218.2644	0.0333	0.0000	219.0969
Total	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2644	218.2644	0.0333	0.0000	219.0969

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Building Construction - 2024****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	4.8000e-004	0.0205	6.2600e-003	9.0000e-005	3.0200e-003	1.2000e-004	3.1400e-003	8.7000e-004	1.2000e-004	9.9000e-004	0.0000	8.9387	8.9387	1.8000e-004	1.3200e-003	9.3373
Worker	7.8200e-003	5.1100e-003	0.0677	2.1000e-004	0.0258	1.3000e-004	0.0259	6.8700e-003	1.2000e-004	6.9800e-003	0.0000	19.7274	19.7274	5.3000e-004	5.2000e-004	19.8947
Total	8.3000e-003	0.0256	0.0739	3.0000e-004	0.0288	2.5000e-004	0.0291	7.7400e-003	2.4000e-004	7.9700e-003	0.0000	28.6661	28.6661	7.1000e-004	1.8400e-003	29.2320

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	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2641	218.2641	0.0333	0.0000	219.0966
Total	0.1345	1.1253	1.5502	2.5700e-003		0.0487	0.0487		0.0472	0.0472	0.0000	218.2641	218.2641	0.0333	0.0000	219.0966

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3.5 Building Construction - 2024

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	4.8000e-004	0.0205	6.2600e-003	9.0000e-005	3.0200e-003	1.2000e-004	3.1400e-003	8.7000e-004	1.2000e-004	9.9000e-004	0.0000	8.9387	8.9387	1.8000e-004	1.3200e-003	9.3373
Worker	7.8200e-003	5.1100e-003	0.0677	2.1000e-004	0.0258	1.3000e-004	0.0259	6.8700e-003	1.2000e-004	6.9800e-003	0.0000	19.7274	19.7274	5.3000e-004	5.2000e-004	19.8947
Total	8.3000e-003	0.0256	0.0739	3.0000e-004	0.0288	2.5000e-004	0.0291	7.7400e-003	2.4000e-004	7.9700e-003	0.0000	28.6661	28.6661	7.1000e-004	1.8400e-003	29.2320

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500

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3.6 Paving - 2023

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	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525
Total	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525

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	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0143	0.1227	0.1786	3.0000e-004		5.7500e-003	5.7500e-003		5.3600e-003	5.3600e-003	0.0000	25.1619	25.1619	7.5200e-003	0.0000	25.3500

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3.6 Paving - 2023

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	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525
Total	8.0000e-004	5.5000e-004	6.9300e-003	2.0000e-005	2.4700e-003	1.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004	0.0000	1.9353	1.9353	6.0000e-005	5.0000e-005	1.9525

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700

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3.6 Paving - 2024

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	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807
Total	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807

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	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.7800e-003	0.0232	0.0359	6.0000e-005		1.0800e-003	1.0800e-003		1.0100e-003	1.0100e-003	0.0000	5.0324	5.0324	1.5000e-003	0.0000	5.0700

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3.6 Paving - 2024

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	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807
Total	1.5000e-004	1.0000e-004	1.2900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3775	0.3775	1.0000e-005	1.0000e-005	0.3807

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6356	53.6356	0.0167	0.0000	54.0539
Total	0.4383	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6356	53.6356	0.0167	0.0000	54.0539

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3.7 Architectural Coating - 2023

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	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671
Total	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671

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	0.4147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0236	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6355	53.6355	0.0167	0.0000	54.0538
Total	0.4383	0.2624	0.4117	6.2000e-004		9.9800e-003	9.9800e-003		9.2500e-003	9.2500e-003	0.0000	53.6355	53.6355	0.0167	0.0000	54.0538

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671
Total	2.2400e-003	1.5300e-003	0.0194	6.0000e-005	6.9100e-003	4.0000e-005	6.9500e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.4189	5.4189	1.6000e-004	1.5000e-004	5.4671

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108
Total	0.0875	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108

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3.7 Architectural Coating - 2024

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	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660
Total	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660

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	0.0829					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-003	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108
Total	0.0875	0.0509	0.0824	1.2000e-004		1.8500e-003	1.8500e-003		1.7200e-003	1.7200e-003	0.0000	10.7271	10.7271	3.3500e-003	0.0000	10.8108

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3.7 Architectural Coating - 2024

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	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660
Total	4.2000e-004	2.7000e-004	3.6300e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0570	1.0570	3.0000e-005	3.0000e-005	1.0660

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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	tons/yr										MT/yr					
Mitigated	0.1701	0.1833	1.6270	3.4300e-003	0.4315	2.2800e-003	0.4338	0.1153	2.1300e-003	0.1174	0.0000	334.0862	334.0862	0.0203	0.0153	339.1634
Unmitigated	0.1701	0.1833	1.6270	3.4300e-003	0.4315	2.2800e-003	0.4338	0.1153	2.1300e-003	0.1174	0.0000	334.0862	334.0862	0.0203	0.0153	339.1634

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	533.12	481.18	400.82	1,170,509	1,170,509
Total	533.12	481.18	400.82	1,170,509	1,170,509

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.555148	0.059467	0.187500	0.120419	0.022094	0.005825	0.011277	0.007430	0.000952	0.000505	0.025870	0.000875	0.002638

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

Historical Energy Use: N

Exceed Title 24

[illegible]

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

Unmitigated

[illegible]

Mitigated

[illegible]

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	380864	35.2390	5.7000e-003	6.9000e-004	35.5875
Total		35.2390	5.7000e-003	6.9000e-004	35.5875

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	380321	35.1888	5.6900e-003	6.9000e-004	35.5367
Total		35.1888	5.6900e-003	6.9000e-004	35.5367

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	0.3883	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169
Unmitigated	0.3883	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169

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	0.0560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0217	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169
Total	0.3883	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169

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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	tons/yr										MT/yr					
Architectural Coating	0.0560					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3106					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0217	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169
Total	0.3883	8.3700e-003	0.7257	4.0000e-005		4.0400e-003	4.0400e-003		4.0400e-003	4.0400e-003	0.0000	1.1886	1.1886	1.1300e-003	0.0000	1.2169

7.0 Water Detail**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.6681	6.8400e-003	4.0100e-003	7.0330
Unmitigated	6.7593	8.5000e-003	5.0000e-003	8.4622

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.38509 / 4.02539	6.7593	8.5000e-003	5.0000e-003	8.4622
Total		6.7593	8.5000e-003	5.0000e-003	8.4622

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.10808 / 4.02539	5.6681	6.8400e-003	4.0100e-003	7.0330
Total		5.6681	6.8400e-003	4.0100e-003	7.0330

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.1508	0.5408	0.0000	22.6708
Unmitigated	9.1508	0.5408	0.0000	22.6708

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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****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	45.08	9.1508	0.5408	0.0000	22.6708
Total		9.1508	0.5408	0.0000	22.6708

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	45.08	9.1508	0.5408	0.0000	22.6708
Total		9.1508	0.5408	0.0000	22.6708

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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

4200 Geary Avenue HUD NEPA EA*Natural Gas to Electricity Conversion and Emissions Estimation Tool*

Total Estimated Natural Gas Usage (kBTU)	Equivalent Electricity Usage (kBtu)	Equivalent Electricity Usage (MWh)
827,415	827,415	243

GHG Emission Calculations

	PG&E		CO ₂ e Conversion Calculations	
	Energy Intensity Factor (lbs/MWh)	Emissions (lbs)	Total CO ₂ e Emissions (lbs)	Total CO ₂ e Emissions (MT)
CO ₂	203.98	49,465	49,465	22
CH ₄	0.033	8	200	0
N ₂ O	0.004	1	289	0
TOTAL GHG EMISSIONS FROM ELECTRICITY				23

Notes

- MWh = megawatt-hours; lbs = pounds; CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent; MT = metric tons; IPCC = Intergovernmental Panel on Climate Change; CARB = California Air Resources Board

- Natural gas usage calculated in CalEEMod.

- Energy intensity factors for PG&E based on 2021. From Appendix D of the CalEEMod User Guide.

- Natural gas to electricity conversion assumes an equal energy demand would be supplied by electricity rather than natural gas.

- CH₄ conversion assumes 1 lb CH₄ is equivalent to 25 lbs CO₂e (consistent with IPCC AR4 [2007], which informs CARB's 2017 Scoping Plan)

- N₂O conversion assumes 1 lb N₂O is equivalent to 298 lbs CO₂e (consistent with IPCC AR4 [2007], which informs CARB's 2017 Scoping Plan)