

Appendix AQ

California Emissions Estimator Model Outputs

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

Belmont Housing Element Update

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	3,300.00	Dwelling Unit	206.25	3,300,000.00	9438

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2030
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use -
- Construction Phase - Schedule changed to fit buildout timeline
- Trips and VMT - Assumption
- Demolition - Assuming all non-vacant sites entire square footage demolished
- Grading - default
- Architectural Coating - BAAQMD Reg 8 Rule 3
- Vehicle Trips - From trip generation study
- Woodstoves - no hearths
- Consumer Products -
- Area Coating - Per BAAQMD rules
- Landscape Equipment -

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Energy Use -

Water And Wastewater -

Construction Off-road Equipment Mitigation - Per BAAQMD rules

Area Mitigation - per baaqmd rules

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	2,227,500.00	2,176,875.00
tblArchitecturalCoating	ConstArea_Residential_Interior	6,682,500.00	6,530,625.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblAreaCoating	Area_Residential_Exterior	2227500	2176875
tblAreaCoating	Area_Residential_Interior	6682500	6530625
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	300.00	100.00
tblConstructionPhase	NumDays	180.00	60.00
tblConstructionPhase	NumDays	465.00	160.00
tblConstructionPhase	NumDays	4,650.00	1,555.00
tblConstructionPhase	NumDays	330.00	105.00
tblConstructionPhase	NumDays	330.00	105.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	495.00	0.00
tblFireplaces	NumberNoFireplace	132.00	0.00
tblFireplaces	NumberWood	561.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,518.00	1,483.50
tblVehicleTrips	WD_TR	7.32	5.44
tblWater	IndoorWaterUseRate	215,008,284.55	210,121,732.63

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tblWater	OutdoorWaterUseRate	135,548,701.13	132,468,048.83
tblWoodstoves	NumberCatalytic	66.00	0.00
tblWoodstoves	NumberNoncatalytic	66.00	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3722	4.0841	3.0897	8.3600e-003	1.9452	0.1629	2.1080	0.6263	0.1505	0.7767	0.0000	757.1260	757.1260	0.1752	0.0321	771.0651
2024	0.8583	4.2913	7.9344	0.0272	2.5701	0.1207	2.6908	0.7002	0.1127	0.8128	0.0000	2,543.6708	2,543.6708	0.1614	0.1406	2,589.5943
2025	0.9235	4.1056	8.7472	0.0319	2.7524	0.0924	2.8448	0.7392	0.0869	0.8262	0.0000	3,010.0348	3,010.0348	0.1350	0.1760	3,065.8605
2026	0.8846	4.0546	8.4110	0.0311	2.7524	0.0918	2.8442	0.7392	0.0864	0.8256	0.0000	2,952.3850	2,952.3850	0.1310	0.1710	3,006.6248
2027	0.8490	4.0076	8.1256	0.0304	2.7524	0.0911	2.8435	0.7392	0.0857	0.8249	0.0000	2,897.3140	2,897.3140	0.1274	0.1663	2,950.0546
2028	0.8129	3.9537	7.8565	0.0296	2.7419	0.0900	2.8319	0.7364	0.0847	0.8211	0.0000	2,836.1682	2,836.1682	0.1239	0.1614	2,887.3489
2029	0.7840	3.9231	7.6765	0.0291	2.7524	0.0896	2.8420	0.7393	0.0843	0.8235	0.0000	2,798.0374	2,798.0374	0.1216	0.1576	2,848.0300
2030	20.4437	1.0633	2.7361	8.5000e-003	0.7200	0.0265	0.7465	0.1929	0.0263	0.2191	0.0000	802.6255	802.6255	0.0206	0.0320	812.6642
Maximum	20.4437	4.2913	8.7472	0.0319	2.7524	0.1629	2.8448	0.7393	0.1505	0.8262	0.0000	3,010.0348	3,010.0348	0.1752	0.1760	3,065.8605

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3722	4.0841	3.0897	8.3600e-003	0.9164	0.1629	1.0793	0.2930	0.1505	0.4435	0.0000	757.1253	757.1253	0.1752	0.0321	771.0644
2024	0.8583	4.2913	7.9344	0.0272	2.3308	0.1207	2.4514	0.6304	0.1127	0.7431	0.0000	2,543.6703	2,543.6703	0.1614	0.1406	2,589.5938
2025	0.9235	4.1056	8.7472	0.0319	2.7524	0.0924	2.8448	0.7392	0.0869	0.8262	0.0000	3,010.0345	3,010.0345	0.1350	0.1760	3,065.8601
2026	0.8846	4.0546	8.4110	0.0311	2.7524	0.0918	2.8442	0.7392	0.0864	0.8256	0.0000	2,952.3847	2,952.3847	0.1310	0.1710	3,006.6245
2027	0.8490	4.0076	8.1256	0.0304	2.7524	0.0911	2.8435	0.7392	0.0857	0.8249	0.0000	2,897.3136	2,897.3136	0.1274	0.1663	2,950.0542
2028	0.8129	3.9537	7.8565	0.0296	2.7419	0.0900	2.8319	0.7364	0.0847	0.8211	0.0000	2,836.1679	2,836.1679	0.1239	0.1614	2,887.3486
2029	0.7840	3.9231	7.6765	0.0291	2.7524	0.0896	2.8420	0.7393	0.0843	0.8235	0.0000	2,798.0370	2,798.0370	0.1216	0.1576	2,848.0296
2030	20.4437	1.0633	2.7361	8.5000e-003	0.7200	0.0265	0.7465	0.1929	0.0263	0.2191	0.0000	802.6253	802.6253	0.0206	0.0320	812.6639
Maximum	20.4437	4.2913	8.7472	0.0319	2.7524	0.1629	2.8448	0.7393	0.1505	0.8262	0.0000	3,010.0345	3,010.0345	0.1752	0.1760	3,065.8601

	ROG	NOx	CO	SO2	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	6.68	0.00	6.42	7.73	0.00	6.80	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	1.0678	1.0678
2	4-1-2023	6-30-2023	1.0265	1.0265
3	7-1-2023	9-30-2023	1.1311	1.1311

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4	10-1-2023	12-31-2023	1.2463	1.2463
5	1-1-2024	3-31-2024	1.1785	1.1785
6	4-1-2024	6-30-2024	1.2914	1.2914
7	7-1-2024	9-30-2024	1.3056	1.3056
8	10-1-2024	12-31-2024	1.3653	1.3653
9	1-1-2025	3-31-2025	1.2743	1.2743
10	4-1-2025	6-30-2025	1.2318	1.2318
11	7-1-2025	9-30-2025	1.2453	1.2453
12	10-1-2025	12-31-2025	1.3026	1.3026
13	1-1-2026	3-31-2026	1.2508	1.2508
14	4-1-2026	6-30-2026	1.2098	1.2098
15	7-1-2026	9-30-2026	1.2231	1.2231
16	10-1-2026	12-31-2026	1.2786	1.2786
17	1-1-2027	3-31-2027	1.2291	1.2291
18	4-1-2027	6-30-2027	1.1897	1.1897
19	7-1-2027	9-30-2027	1.2028	1.2028
20	10-1-2027	12-31-2027	1.2565	1.2565
21	1-1-2028	3-31-2028	1.2238	1.2238
22	4-1-2028	6-30-2028	1.1721	1.1721
23	7-1-2028	9-30-2028	1.1850	1.1850
24	10-1-2028	12-31-2028	1.2373	1.2373
25	1-1-2029	3-31-2029	1.1901	1.1901
26	4-1-2029	6-30-2029	1.1530	1.1530
27	7-1-2029	9-30-2029	1.1657	1.1657
28	10-1-2029	12-31-2029	1.2165	1.2165
29	1-1-2030	3-31-2030	0.8348	0.8348
30	4-1-2030	6-30-2030	0.2777	0.2777
31	7-1-2030	9-30-2030	8.2473	8.2473
		Highest	8.2473	8.2473

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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	15.8893	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784
Energy	0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.7752	3,436.7752	0.0659	0.0630	3,457.1982
Mobile	6.5846	7.0950	62.9892	0.1327	16.7061	0.0884	16.7946	4.4637	0.0824	4.5462	0.0000	12,934.2104	12,934.2104	0.7843	0.5938	13,130.7738
Waste						0.0000	0.0000		0.0000	0.0000	301.1371	0.0000	301.1371	17.7967	0.0000	746.0544
Water						0.0000	0.0000		0.0000	0.0000	66.6619	0.0000	66.6619	6.8468	0.1617	286.0096
Total	22.8212	10.3443	88.6901	0.1529	16.7061	0.4642	17.1704	4.4637	0.4582	4.9220	367.7990	16,411.0106	16,778.8096	25.5319	0.8185	17,661.0143

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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	15.8893	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784
Energy	0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.7752	3,436.7752	0.0659	0.0630	3,457.1982
Mobile	6.5846	7.0950	62.9892	0.1327	16.7061	0.0884	16.7946	4.4637	0.0824	4.5462	0.0000	12,934.2104	12,934.2104	0.7843	0.5938	13,130.7738
Waste						0.0000	0.0000		0.0000	0.0000	301.1371	0.0000	301.1371	17.7967	0.0000	746.0544
Water						0.0000	0.0000		0.0000	0.0000	66.6619	0.0000	66.6619	6.8468	0.1617	286.0096
Total	22.8212	10.3443	88.6901	0.1529	16.7061	0.4642	17.1704	4.4637	0.4582	4.9220	367.7990	16,411.0106	16,778.8096	25.5319	0.8185	17,661.0143

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	5/19/2023	5	100	
2	Site Preparation	Site Preparation	5/20/2023	8/11/2023	5	60	
3	Grading	Grading	8/12/2023	3/22/2024	5	160	

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4	Building Construction	Building Construction	3/23/2024	3/8/2030	5	1555
5	Paving	Paving	3/9/2030	8/2/2030	5	105
6	Architectural Coating	Architectural Coating	8/3/2030	12/27/2030	5	105

Acres of Grading (Site Preparation Phase): 90

Acres of Grading (Grading Phase): 480

Acres of Paving: 0

Residential Indoor: 6,530,625; Residential Outdoor: 2,176,875; 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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	6,701.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,376.00	353.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	475.00	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

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3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7251	0.0000	0.7251	0.1098	0.0000	0.1098	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1135	1.0742	0.9822	1.9400e-003		0.0499	0.0499		0.0464	0.0464	0.0000	169.9603	169.9603	0.0476	0.0000	171.1503
Total	0.1135	1.0742	0.9822	1.9400e-003	0.7251	0.0499	0.7750	0.1098	0.0464	0.1562	0.0000	169.9603	169.9603	0.0476	0.0000	171.1503

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.9900e-003	0.4544	0.1069	2.0200e-003	0.0567	3.6700e-003	0.0603	0.0156	3.5200e-003	0.0191	0.0000	199.9556	199.9556	6.5800e-003	0.0317	209.5624
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	1.9200e-003	1.3100e-003	0.0166	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6000e-003	0.0000	4.6447	4.6447	1.3000e-004	1.3000e-004	4.6861
Total	8.9100e-003	0.4557	0.1235	2.0700e-003	0.0626	3.7000e-003	0.0663	0.0172	3.5500e-003	0.0207	0.0000	204.6003	204.6003	6.7100e-003	0.0318	214.2485

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3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3263	0.0000	0.3263	0.0494	0.0000	0.0494	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1135	1.0742	0.9822	1.9400e-003		0.0499	0.0499		0.0464	0.0464	0.0000	169.9601	169.9601	0.0476	0.0000	171.1501
Total	0.1135	1.0742	0.9822	1.9400e-003	0.3263	0.0499	0.3762	0.0494	0.0464	0.0958	0.0000	169.9601	169.9601	0.0476	0.0000	171.1501

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	6.9900e-003	0.4544	0.1069	2.0200e-003	0.0567	3.6700e-003	0.0603	0.0156	3.5200e-003	0.0191	0.0000	199.9556	199.9556	6.5800e-003	0.0317	209.5624
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	1.9200e-003	1.3100e-003	0.0166	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6000e-003	0.0000	4.6447	4.6447	1.3000e-004	1.3000e-004	4.6861
Total	8.9100e-003	0.4557	0.1235	2.0700e-003	0.0626	3.7000e-003	0.0663	0.0172	3.5500e-003	0.0207	0.0000	204.6003	204.6003	6.7100e-003	0.0318	214.2485

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5897	0.0000	0.5897	0.3031	0.0000	0.3031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.8257	0.5473	1.1400e-003		0.0380	0.0380		0.0349	0.0349	0.0000	100.3521	100.3521	0.0325	0.0000	101.1635
Total	0.0798	0.8257	0.5473	1.1400e-003	0.5897	0.0380	0.6277	0.3031	0.0349	0.3380	0.0000	100.3521	100.3521	0.0325	0.0000	101.1635

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	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740
Total	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2654	0.0000	0.2654	0.1364	0.0000	0.1364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.8257	0.5473	1.1400e-003		0.0380	0.0380		0.0349	0.0349	0.0000	100.3520	100.3520	0.0325	0.0000	101.1634
Total	0.0798	0.8257	0.5473	1.1400e-003	0.2654	0.0380	0.3034	0.1364	0.0349	0.1713	0.0000	100.3520	100.3520	0.0325	0.0000	101.1634

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	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740
Total	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5556	0.0000	0.5556	0.1930	0.0000	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1661	1.7258	1.4026	3.1000e-003		0.0712	0.0712		0.0655	0.0655	0.0000	272.6760	272.6760	0.0882	0.0000	274.8808
Total	0.1661	1.7258	1.4026	3.1000e-003	0.5556	0.0712	0.6268	0.1930	0.0655	0.2585	0.0000	272.6760	272.6760	0.0882	0.0000	274.8808

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	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481
Total	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2500	0.0000	0.2500	0.0869	0.0000	0.0869	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1661	1.7258	1.4026	3.1000e-003		0.0712	0.0712		0.0655	0.0655	0.0000	272.6757	272.6757	0.0882	0.0000	274.8804
Total	0.1661	1.7258	1.4026	3.1000e-003	0.2500	0.0712	0.3213	0.0869	0.0655	0.1524	0.0000	272.6757	272.6757	0.0882	0.0000	274.8804

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	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481
Total	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481

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

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4352	0.0000	0.4352	0.1268	0.0000	0.1268	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810
Total	0.0965	0.9713	0.8317	1.8600e-003	0.4352	0.0401	0.4752	0.1268	0.0369	0.1637	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810

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	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549
Total	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549

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

3.4 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1958	0.0000	0.1958	0.0571	0.0000	0.0571	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808
Total	0.0965	0.9713	0.8317	1.8600e-003	0.1958	0.0401	0.2359	0.0571	0.0369	0.0939	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808

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	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549
Total	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549

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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 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	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1676	234.1676	0.0554	0.0000	235.5520
Total	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1676	234.1676	0.0554	0.0000	235.5520

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	0.0369	1.5859	0.4855	7.1200e-003	0.2339	9.3500e-003	0.2433	0.0677	8.9500e-003	0.0766	0.0000	692.8075	692.8075	0.0143	0.1025	723.7004
Worker	0.5748	0.3753	4.9719	0.0155	1.8962	9.3100e-003	1.9056	0.5045	8.5700e-003	0.5130	0.0000	1,449.5130	1,449.5130	0.0388	0.0380	1,461.8060
Total	0.6117	1.9612	5.4574	0.0226	2.1302	0.0187	2.1488	0.5721	0.0175	0.5896	0.0000	2,142.3205	2,142.3205	0.0530	0.1405	2,185.5064

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3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1673	234.1673	0.0554	0.0000	235.5517
Total	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1673	234.1673	0.0554	0.0000	235.5517

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	0.0369	1.5859	0.4855	7.1200e-003	0.2339	9.3500e-003	0.2433	0.0677	8.9500e-003	0.0766	0.0000	692.8075	692.8075	0.0143	0.1025	723.7004
Worker	0.5748	0.3753	4.9719	0.0155	1.8962	9.3100e-003	1.9056	0.5045	8.5700e-003	0.5130	0.0000	1,449.5130	1,449.5130	0.0388	0.0380	1,461.8060
Total	0.6117	1.9612	5.4574	0.0226	2.1302	0.0187	2.1488	0.5721	0.0175	0.5896	0.0000	2,142.3205	2,142.3205	0.0530	0.1405	2,185.5064

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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 - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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	0.0465	2.0414	0.6163	9.0300e-003	0.3023	0.0121	0.3144	0.0874	0.0116	0.0990	0.0000	879.2419	879.2419	0.0184	0.1300	918.4364
Worker	0.6985	0.4369	6.0319	0.0193	2.4501	0.0115	2.4616	0.6518	0.0106	0.6624	0.0000	1,828.1381	1,828.1381	0.0455	0.0460	1,842.9906
Total	0.7450	2.4783	6.6482	0.0284	2.7524	0.0236	2.7760	0.7392	0.0222	0.7614	0.0000	2,707.3799	2,707.3799	0.0639	0.1760	2,761.4270

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3.5 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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	0.0465	2.0414	0.6163	9.0300e-003	0.3023	0.0121	0.3144	0.0874	0.0116	0.0990	0.0000	879.2419	879.2419	0.0184	0.1300	918.4364
Worker	0.6985	0.4369	6.0319	0.0193	2.4501	0.0115	2.4616	0.6518	0.0106	0.6624	0.0000	1,828.1381	1,828.1381	0.0455	0.0460	1,842.9906
Total	0.7450	2.4783	6.6482	0.0284	2.7524	0.0236	2.7760	0.7392	0.0222	0.7614	0.0000	2,707.3799	2,707.3799	0.0639	0.1760	2,761.4270

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2026

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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	0.0455	2.0295	0.6075	8.8600e-003	0.3023	0.0120	0.3143	0.0874	0.0115	0.0989	0.0000	863.1354	863.1354	0.0183	0.1275	901.5948
Worker	0.6607	0.3979	5.7044	0.0188	2.4501	0.0110	2.4611	0.6518	0.0101	0.6619	0.0000	1,786.5948	1,786.5948	0.0416	0.0435	1,800.5965
Total	0.7061	2.4273	6.3119	0.0276	2.7524	0.0230	2.7754	0.7392	0.0216	0.7608	0.0000	2,649.7301	2,649.7301	0.0598	0.1710	2,702.1913

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2026

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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	0.0455	2.0295	0.6075	8.8600e-003	0.3023	0.0120	0.3143	0.0874	0.0115	0.0989	0.0000	863.1354	863.1354	0.0183	0.1275	901.5948
Worker	0.6607	0.3979	5.7044	0.0188	2.4501	0.0110	2.4611	0.6518	0.0101	0.6619	0.0000	1,786.5948	1,786.5948	0.0416	0.0435	1,800.5965
Total	0.7061	2.4273	6.3119	0.0276	2.7524	0.0230	2.7754	0.7392	0.0216	0.7608	0.0000	2,649.7301	2,649.7301	0.0598	0.1710	2,702.1913

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2027

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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	0.0446	2.0151	0.5999	8.6800e-003	0.3023	0.0119	0.3142	0.0874	0.0114	0.0988	0.0000	845.7377	845.7377	0.0181	0.1249	883.4111
Worker	0.6260	0.3652	5.4267	0.0182	2.4501	0.0104	2.4605	0.6518	9.5300e-003	0.6613	0.0000	1,748.9213	1,748.9213	0.0382	0.0414	1,762.2100
Total	0.6706	2.3803	6.0266	0.0269	2.7524	0.0223	2.7747	0.7392	0.0209	0.7602	0.0000	2,594.6591	2,594.6591	0.0563	0.1663	2,645.6211

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2027

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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	0.0446	2.0151	0.5999	8.6800e-003	0.3023	0.0119	0.3142	0.0874	0.0114	0.0988	0.0000	845.7377	845.7377	0.0181	0.1249	883.4111
Worker	0.6260	0.3652	5.4267	0.0182	2.4501	0.0104	2.4605	0.6518	9.5300e-003	0.6613	0.0000	1,748.9213	1,748.9213	0.0382	0.0414	1,762.2100
Total	0.6706	2.3803	6.0266	0.0269	2.7524	0.0223	2.7747	0.7392	0.0209	0.7602	0.0000	2,594.6591	2,594.6591	0.0563	0.1663	2,645.6211

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2028

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

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	0.0437	1.9960	0.5920	8.4700e-003	0.3011	0.0118	0.3129	0.0871	0.0113	0.0984	0.0000	825.7617	825.7617	0.0179	0.1219	862.5276
Worker	0.5915	0.3367	5.1736	0.0177	2.4407	9.6600e-003	2.4504	0.6493	8.8900e-003	0.6582	0.0000	1,708.9113	1,708.9113	0.0351	0.0395	1,721.5542
Total	0.6352	2.3327	5.7655	0.0261	2.7419	0.0214	2.7633	0.7364	0.0202	0.7566	0.0000	2,534.6730	2,534.6730	0.0530	0.1614	2,584.0818

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2028

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

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	0.0437	1.9960	0.5920	8.4700e-003	0.3011	0.0118	0.3129	0.0871	0.0113	0.0984	0.0000	825.7617	825.7617	0.0179	0.1219	862.5276
Worker	0.5915	0.3367	5.1736	0.0177	2.4407	9.6600e-003	2.4504	0.6493	8.8900e-003	0.6582	0.0000	1,708.9113	1,708.9113	0.0351	0.0395	1,721.5542
Total	0.6352	2.3327	5.7655	0.0261	2.7419	0.0214	2.7633	0.7364	0.0202	0.7566	0.0000	2,534.6730	2,534.6730	0.0530	0.1614	2,584.0818

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2029

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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	0.0431	1.9811	0.5878	8.3100e-003	0.3023	0.0117	0.3140	0.0875	0.0112	0.0986	0.0000	809.7782	809.7782	0.0178	0.1194	845.8084
Worker	0.5624	0.3147	4.9897	0.0173	2.4501	9.0800e-003	2.4592	0.6518	8.3500e-003	0.6602	0.0000	1,685.6043	1,685.6043	0.0327	0.0381	1,697.7881
Total	0.6055	2.2958	5.5775	0.0256	2.7524	0.0208	2.7732	0.7393	0.0195	0.7588	0.0000	2,495.3825	2,495.3825	0.0505	0.1576	2,543.5965

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2029

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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	0.0431	1.9811	0.5878	8.3100e-003	0.3023	0.0117	0.3140	0.0875	0.0112	0.0986	0.0000	809.7782	809.7782	0.0178	0.1194	845.8084
Worker	0.5624	0.3147	4.9897	0.0173	2.4501	9.0800e-003	2.4592	0.6518	8.3500e-003	0.6602	0.0000	1,685.6043	1,685.6043	0.0327	0.0381	1,697.7881
Total	0.6055	2.2958	5.5775	0.0256	2.7524	0.0208	2.7732	0.7393	0.0195	0.7588	0.0000	2,495.3825	2,495.3825	0.0505	0.1576	2,543.5965

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2030

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	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4010	64.4010	2.5800e-003	0.0000	64.4655
Total	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4010	64.4010	2.5800e-003	0.0000	64.4655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9900e-003	0.3702	0.1096	1.5300e-003	0.0568	2.1800e-003	0.0589	0.0164	2.0800e-003	0.0185	0.0000	149.0760	149.0760	3.3100e-003	0.0220	155.7055
Worker	0.1001	0.0554	0.9045	3.1800e-003	0.4600	1.6000e-003	0.4616	0.1224	1.4700e-003	0.1238	0.0000	311.5442	311.5442	5.7100e-003	6.9300e-003	313.7515
Total	0.1081	0.4256	1.0141	4.7100e-003	0.5167	3.7800e-003	0.5205	0.1388	3.5500e-003	0.1423	0.0000	460.6202	460.6202	9.0200e-003	0.0289	469.4569

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.5 Building Construction - 2030

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	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4009	64.4009	2.5800e-003	0.0000	64.4655
Total	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4009	64.4009	2.5800e-003	0.0000	64.4655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9900e-003	0.3702	0.1096	1.5300e-003	0.0568	2.1800e-003	0.0589	0.0164	2.0800e-003	0.0185	0.0000	149.0760	149.0760	3.3100e-003	0.0220	155.7055
Worker	0.1001	0.0554	0.9045	3.1800e-003	0.4600	1.6000e-003	0.4616	0.1224	1.4700e-003	0.1238	0.0000	311.5442	311.5442	5.7100e-003	6.9300e-003	313.7515
Total	0.1081	0.4256	1.0141	4.7100e-003	0.5167	3.7800e-003	0.5205	0.1388	3.5500e-003	0.1423	0.0000	460.6202	460.6202	9.0200e-003	0.0289	469.4569

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.6 Paving - 2030

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	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5225	126.5225	5.9300e-003	0.0000	126.6707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5225	126.5225	5.9300e-003	0.0000	126.6707

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	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445
Total	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

3.6 Paving - 2030

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	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5223	126.5223	5.9300e-003	0.0000	126.6706
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5223	126.5223	5.9300e-003	0.0000	126.6706

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	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445
Total	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445

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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 - 2030

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	20.1796					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181
Total	20.1865	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0429	0.0238	0.3875	1.3600e-003	0.1971	6.8000e-004	0.1977	0.0524	6.3000e-004	0.0531	0.0000	133.4628	133.4628	2.4400e-003	2.9700e-003	134.4083
Total	0.0429	0.0238	0.3875	1.3600e-003	0.1971	6.8000e-004	0.1977	0.0524	6.3000e-004	0.0531	0.0000	133.4628	133.4628	2.4400e-003	2.9700e-003	134.4083

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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 - 2030

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	20.1796					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181
Total	20.1865	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181

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	0.0429	0.0238	0.3875	1.3600e-003	0.1971	6.8000e-004	0.1977	0.0524	6.3000e-004	0.0531	0.0000	133.4628	133.4628	2.4400e-003	2.9700e-003	134.4083
Total	0.0429	0.0238	0.3875	1.3600e-003	0.1971	6.8000e-004	0.1977	0.0524	6.3000e-004	0.0531	0.0000	133.4628	133.4628	2.4400e-003	2.9700e-003	134.4083

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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	6.5846	7.0950	62.9892	0.1327	16.7061	0.0884	16.7946	4.4637	0.0824	4.5462	0.0000	12,934.2104	12,934.2104	0.7843	0.5938	13,130.7738
Unmitigated	6.5846	7.0950	62.9892	0.1327	16.7061	0.0884	16.7946	4.4637	0.0824	4.5462	0.0000	12,934.2104	12,934.2104	0.7843	0.5938	13,130.7738

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	17,952.00	26,862.00	20,724.00	45,316,475	45,316,475
Total	17,952.00	26,862.00	20,724.00	45,316,475	45,316,475

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	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 Low 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

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.775 2	3,436.775 2	0.0659	0.0630	3,457.198 2
NaturalGas Unmitigated	0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.775 2	3,436.775 2	0.0659	0.0630	3,457.198 2

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.44027e+007	0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.7752	3,436.7752	0.0659	0.0630	3,457.1982
Total		0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.7752	3,436.7752	0.0659	0.0630	3,457.1982

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	6.44027e+007	0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.7752	3,436.7752	0.0659	0.0630	3,457.1982
Total		0.3473	2.9676	1.2628	0.0189		0.2399	0.2399		0.2399	0.2399	0.0000	3,436.7752	3,436.7752	0.0659	0.0630	3,457.1982

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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 Low Rise	1.33081e+007	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.33081e+007	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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	15.8893	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784
Unmitigated	15.8893	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.2702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	12.8882					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	0.7310	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784
Total	15.8893	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784

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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	2.2702					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	12.8882					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	0.7310	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784
Total	15.8893	0.2817	24.4381	1.2900e-003		0.1359	0.1359		0.1359	0.1359	0.0000	40.0250	40.0250	0.0381	0.0000	40.9784

7.0 Water Detail

7.1 Mitigation Measures Water

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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	66.6619	6.8468	0.1617	286.0096
Unmitigated	66.6619	6.8468	0.1617	286.0096

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	210.122 / 132.468	66.6619	6.8468	0.1617	286.0096
Total		66.6619	6.8468	0.1617	286.0096

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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 Low Rise	210.122 / 132.468	66.6619	6.8468	0.1617	286.0096
Total		66.6619	6.8468	0.1617	286.0096

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	301.1371	17.7967	0.0000	746.0544
Unmitigated	301.1371	17.7967	0.0000	746.0544

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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 Low Rise	1483.5	301.1371	17.7967	0.0000	746.0544
Total		301.1371	17.7967	0.0000	746.0544

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1483.5	301.1371	17.7967	0.0000	746.0544
Total		301.1371	17.7967	0.0000	746.0544

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

Belmont Housing Element Update

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	40.00	Dwelling Unit	1.05	40,000.00	114

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2024
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Demolition - Based on 1601 El Camino Road. Max demolition

Architectural Coating - BAAQMD Reg 8 Rule 3

Woodstoves - Assume none

Area Coating - BAAQMD Reg 8 Rule 3

Energy Use - Reduce Title 24 7% for 2019 CalGreen

Water And Wastewater - Reduced indoor water use 20% for 2016 CalGreen; aerobic only

Construction Off-road Equipment Mitigation -

Area Mitigation - BAAQMD Reg 8 Rule 3

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	T24E	90.83	84.47
tblEnergyUse	T24NG	5,828.01	5,420.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	6.00	0.00
tblFireplaces	NumberNoFireplace	1.60	0.00
tblFireplaces	NumberWood	6.80	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	0.80	0.00
tblWoodstoves	NumberNoncatalytic	0.80	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.6060	15.0116	13.9319	0.0282	7.1647	0.6828	7.7695	3.4465	0.6387	4.0029	0.0000	2,757.8056	2,757.8056	0.6473	0.0559	2,789.5379
2024	50.2539	11.2757	13.2169	0.0249	0.2653	0.4528	0.7181	0.0710	0.4368	0.5078	0.0000	2,293.6699	2,293.6699	0.4136	0.0173	2,307.3342
Maximum	50.2539	15.0116	13.9319	0.0282	7.1647	0.6828	7.7695	3.4465	0.6387	4.0029	0.0000	2,757.8056	2,757.8056	0.6473	0.0559	2,789.5379

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.6060	15.0116	13.9319	0.0282	7.1647	0.6828	7.7695	3.4465	0.6387	4.0029	0.0000	2,757.8056	2,757.8056	0.6473	0.0559	2,789.5379
2024	50.2539	11.2757	13.2169	0.0249	0.2653	0.4528	0.7181	0.0710	0.4368	0.5078	0.0000	2,293.6699	2,293.6699	0.4136	0.0173	2,307.3342
Maximum	50.2539	15.0116	13.9319	0.0282	7.1647	0.6828	7.7695	3.4465	0.6387	4.0029	0.0000	2,757.8056	2,757.8056	0.6473	0.0559	2,789.5379

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0923	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.9421	5.9421	5.7000e-003	0.0000	6.0846
Energy	9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095
Mobile	0.5548	0.5136	4.5981	0.0100	1.0578	7.0700e-003	1.0649	0.2817	6.5900e-003	0.2883		1,034.9654	1,034.9654	0.0609	0.0452	1,049.9460
Total	1.6566	0.6328	7.9313	0.0107	1.0578	0.0319	1.0897	0.2817	0.0314	0.3132	0.0000	1,144.5014	1,144.5014	0.0686	0.0471	1,160.2402

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.0923	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.9421	5.9421	5.7000e-003	0.0000	6.0846
Energy	9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095
Mobile	0.5548	0.5136	4.5981	0.0100	1.0578	7.0700e-003	1.0649	0.2817	6.5900e-003	0.2883		1,034.9654	1,034.9654	0.0609	0.0452	1,049.9460
Total	1.6566	0.6328	7.9313	0.0107	1.0578	0.0319	1.0897	0.2817	0.0314	0.3132	0.0000	1,144.5014	1,144.5014	0.0686	0.0471	1,160.2402

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	6/30/2023	5	2	
3	Grading	Grading	7/1/2023	7/6/2023	5	4	
4	Building Construction	Building Construction	7/7/2023	4/11/2024	5	200	
5	Paving	Paving	4/12/2024	4/25/2024	5	10	
6	Architectural Coating	Architectural Coating	4/26/2024	5/9/2024	5	10	

Acres of Grading (Site Preparation Phase): 1.88

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 81,000; Residential Outdoor: 27,000; 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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	103.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	29.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1123	0.0000	1.1123	0.1684	0.0000	0.1684			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	1.1123	0.6766	1.7890	0.1684	0.6328	0.8012		2,324.3959	2,324.3959	0.5893		2,339.1278

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0110	0.6730	0.1635	3.1100e-003	0.0901	5.6400e-003	0.0957	0.0247	5.4000e-003	0.0301		338.6599	338.6599	0.0112	0.0537	354.9307
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0202	0.3108	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.7498	94.7498	2.3900e-003	2.2500e-003	95.4794
Total	0.0462	0.6932	0.4742	4.0400e-003	0.1969	6.1700e-003	0.2030	0.0530	5.8900e-003	0.0589		433.4097	433.4097	0.0136	0.0559	450.4101

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.1123	0.0000	1.1123	0.1684	0.0000	0.1684			0.0000			0.0000
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
Total	1.4725	14.3184	13.4577	0.0241	1.1123	0.6766	1.7890	0.1684	0.6328	0.8012	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0110	0.6730	0.1635	3.1100e-003	0.0901	5.6400e-003	0.0957	0.0247	5.4000e-003	0.0301		338.6599	338.6599	0.0112	0.0537	354.9307
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0352	0.0202	0.3108	9.3000e-004	0.1068	5.3000e-004	0.1073	0.0283	4.9000e-004	0.0288		94.7498	94.7498	2.3900e-003	2.2500e-003	95.4794
Total	0.0462	0.6932	0.4742	4.0400e-003	0.1969	6.1700e-003	0.2030	0.0530	5.8900e-003	0.0589		433.4097	433.4097	0.0136	0.0559	450.4101

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668		1,666.0573	1,666.0573	0.5388		1,679.5282
Total	1.1339	12.4250	6.6420	0.0172	6.2662	0.5074	6.7736	3.0041	0.4668	3.4709		1,666.0573	1,666.0573	0.5388		1,679.5282

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0124	0.1912	5.7000e-004	0.0657	3.3000e-004	0.0660	0.0174	3.0000e-004	0.0177		58.3076	58.3076	1.4700e-003	1.3800e-003	58.7566
Total	0.0216	0.0124	0.1912	5.7000e-004	0.0657	3.3000e-004	0.0660	0.0174	3.0000e-004	0.0177		58.3076	58.3076	1.4700e-003	1.3800e-003	58.7566

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.3 Site Preparation - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.1339	12.4250	6.6420	0.0172		0.5074	0.5074		0.4668	0.4668	0.0000	1,666.057 3	1,666.057 3	0.5388		1,679.528 2
Total	1.1339	12.4250	6.6420	0.0172	6.2662	0.5074	6.7736	3.0041	0.4668	3.4709	0.0000	1,666.057 3	1,666.057 3	0.5388		1,679.528 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0216	0.0124	0.1912	5.7000e-004	0.0657	3.3000e-004	0.0660	0.0174	3.0000e-004	0.0177		58.3076	58.3076	1.4700e-003	1.3800e-003	58.7566
Total	0.0216	0.0124	0.1912	5.7000e-004	0.0657	3.3000e-004	0.0660	0.0174	3.0000e-004	0.0177		58.3076	58.3076	1.4700e-003	1.3800e-003	58.7566

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	7.0826	0.6044	7.6869	3.4247	0.5560	3.9807		1,995.6147	1,995.6147	0.6454		2,011.7503

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0271	0.0155	0.2391	7.1000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		72.8845	72.8845	1.8400e-003	1.7300e-003	73.4457
Total	0.0271	0.0155	0.2391	7.1000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		72.8845	72.8845	1.8400e-003	1.7300e-003	73.4457

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.4 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
Total	1.3330	14.4676	8.7038	0.0206	7.0826	0.6044	7.6869	3.4247	0.5560	3.9807	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0271	0.0155	0.2391	7.1000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		72.8845	72.8845	1.8400e-003	1.7300e-003	73.4457
Total	0.0271	0.0155	0.2391	7.1000e-004	0.0822	4.1000e-004	0.0826	0.0218	3.8000e-004	0.0222		72.8845	72.8845	1.8400e-003	1.7300e-003	73.4457

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3500e-003	0.1716	0.0548	8.1000e-004	0.0271	1.0400e-003	0.0281	7.8000e-003	9.9000e-004	8.7900e-003		86.9844	86.9844	1.7800e-003	0.0129	90.8609
Worker	0.0784	0.0451	0.6933	2.0700e-003	0.2382	1.1800e-003	0.2394	0.0632	1.0900e-003	0.0643		211.3650	211.3650	5.3300e-003	5.0100e-003	212.9926
Total	0.0828	0.2166	0.7480	2.8800e-003	0.2653	2.2200e-003	0.2675	0.0710	2.0800e-003	0.0731		298.3494	298.3494	7.1100e-003	0.0179	303.8535

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3500e-003	0.1716	0.0548	8.1000e-004	0.0271	1.0400e-003	0.0281	7.8000e-003	9.9000e-004	8.7900e-003		86.9844	86.9844	1.7800e-003	0.0129	90.8609
Worker	0.0784	0.0451	0.6933	2.0700e-003	0.2382	1.1800e-003	0.2394	0.0632	1.0900e-003	0.0643		211.3650	211.3650	5.3300e-003	5.0100e-003	212.9926
Total	0.0828	0.2166	0.7480	2.8800e-003	0.2653	2.2200e-003	0.2675	0.0710	2.0800e-003	0.0731		298.3494	298.3494	7.1100e-003	0.0179	303.8535

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2300e-003	0.1716	0.0536	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		85.6278	85.6278	1.7700e-003	0.0127	89.4438
Worker	0.0733	0.0402	0.6461	2.0000e-003	0.2382	1.1300e-003	0.2394	0.0632	1.0400e-003	0.0642		206.1207	206.1207	4.8200e-003	4.6700e-003	207.6342
Total	0.0775	0.2119	0.6998	2.8000e-003	0.2653	2.1800e-003	0.2675	0.0710	2.0400e-003	0.0730		291.7485	291.7485	6.5900e-003	0.0173	297.0780

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.2300e-003	0.1716	0.0536	8.0000e-004	0.0271	1.0500e-003	0.0281	7.8000e-003	1.0000e-003	8.8000e-003		85.6278	85.6278	1.7700e-003	0.0127	89.4438
Worker	0.0733	0.0402	0.6461	2.0000e-003	0.2382	1.1300e-003	0.2394	0.0632	1.0400e-003	0.0642		206.1207	206.1207	4.8200e-003	4.6700e-003	207.6342
Total	0.0775	0.2119	0.6998	2.8000e-003	0.2653	2.1800e-003	0.2675	0.0710	2.0400e-003	0.0730		291.7485	291.7485	6.5900e-003	0.0173	297.0780

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

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	lb/day										lb/day					
Off-Road	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0329	0.0180	0.2896	9.0000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		92.3990	92.3990	2.1600e-003	2.1000e-003	93.0774
Total	0.0329	0.0180	0.2896	9.0000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		92.3990	92.3990	2.1600e-003	2.1000e-003	93.0774

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

3.6 Paving - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0329	0.0180	0.2896	9.0000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		92.3990	92.3990	2.1600e-003	2.1000e-003	93.0774
Total	0.0329	0.0180	0.2896	9.0000e-004	0.1068	5.0000e-004	0.1073	0.0283	4.6000e-004	0.0288		92.3990	92.3990	2.1600e-003	2.1000e-003	93.0774

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.0580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	50.2388	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0152	8.3200e-003	0.1337	4.1000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		42.6457	42.6457	1.0000e-003	9.7000e-004	42.9588
Total	0.0152	8.3200e-003	0.1337	4.1000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		42.6457	42.6457	1.0000e-003	9.7000e-004	42.9588

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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 On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	50.0580					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	50.2388	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0152	8.3200e-003	0.1337	4.1000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		42.6457	42.6457	1.0000e-003	9.7000e-004	42.9588
Total	0.0152	8.3200e-003	0.1337	4.1000e-004	0.0493	2.3000e-004	0.0495	0.0131	2.1000e-004	0.0133		42.6457	42.6457	1.0000e-003	9.7000e-004	42.9588

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5548	0.5136	4.5981	0.0100	1.0578	7.0700e-003	1.0649	0.2817	6.5900e-003	0.2883		1,034.9654	1,034.9654	0.0609	0.0452	1,049.9460
Unmitigated	0.5548	0.5136	4.5981	0.0100	1.0578	7.0700e-003	1.0649	0.2817	6.5900e-003	0.2883		1,034.9654	1,034.9654	0.0609	0.0452	1,049.9460

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	217.60	196.40	163.60	477,759	477,759
Total	217.60	196.40	163.60	477,759	477,759

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	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

Belmont Housing Element Update - Bay Area AQMD Air District, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095
NaturalGas Unmitigated	9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	880.548	9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095
Total		9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095

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

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	0.880548	9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095
Total		9.5000e-003	0.0812	0.0345	5.2000e-004		6.5600e-003	6.5600e-003		6.5600e-003	6.5600e-003		103.5939	103.5939	1.9900e-003	1.9000e-003	104.2095

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0923	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.9421	5.9421	5.7000e-003	0.0000	6.0846
Unmitigated	1.0923	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.9421	5.9421	5.7000e-003	0.0000	6.0846

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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

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8560					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	0.0992	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183		5.9421	5.9421	5.7000e-003		6.0846
Total	1.0923	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.9421	5.9421	5.7000e-003	0.0000	6.0846

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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	lb/day										lb/day					
Architectural Coating	0.1372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8560					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	0.0992	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183		5.9421	5.9421	5.7000e-003		6.0846
Total	1.0923	0.0380	3.2987	1.7000e-004		0.0183	0.0183		0.0183	0.0183	0.0000	5.9421	5.9421	5.7000e-003	0.0000	6.0846

7.0 Water Detail

7.1 Mitigation Measures Water

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

Belmont Housing Element Update

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	3,225.00	Dwelling Unit	84.87	3,225,000.00	9224

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2030
Utility Company	Peninsula Clean Energy				
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Defaults
- Land Use -
- Construction Phase - Schedule changed to fit buildout timeline
- Grading - default
- Demolition - Assuming all non-vacant sites entire square footage demolished
- Architectural Coating - BAAQMD reg 8 rule 3
- Consumer Products - Default
- Area Coating - BAAQMD reg 8 rule 3
- Landscape Equipment - default
- Woodstoves - no hearths
- Energy Use - 7 percent reduction under 2019 CalGreen
- Water And Wastewater - 20 percent potable water reduction under CalGreen

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

Area Mitigation - baaqmd reg 8 rule 3

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	100.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	100
tblAreaCoating	Area_EF_Residential_Exterior	150	100
tblConstructionPhase	NumDays	110.00	105.00
tblConstructionPhase	NumDays	1,550.00	1,555.00
tblConstructionPhase	NumDays	155.00	160.00
tblConstructionPhase	NumDays	110.00	105.00
tblConstructionPhase	PhaseEndDate	12/31/2010	12/27/2030
tblConstructionPhase	PhaseEndDate	12/31/2010	3/8/2030
tblConstructionPhase	PhaseEndDate	12/31/2013	5/19/2023
tblConstructionPhase	PhaseEndDate	12/31/2010	3/22/2024
tblConstructionPhase	PhaseEndDate	12/31/2010	8/2/2030
tblConstructionPhase	PhaseEndDate	12/31/2010	8/11/2023
tblConstructionPhase	PhaseStartDate	1/1/2011	8/3/2030
tblConstructionPhase	PhaseStartDate	1/1/2011	3/23/2024
tblConstructionPhase	PhaseStartDate	1/1/2014	1/1/2023
tblConstructionPhase	PhaseStartDate	1/1/2011	8/12/2023
tblConstructionPhase	PhaseStartDate	1/1/2011	3/9/2030
tblConstructionPhase	PhaseStartDate	1/1/2011	5/20/2023
tblEnergyUse	T24E	90.83	84.47
tblEnergyUse	T24NG	5,828.01	5,420.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	483.75	0.00
tblFireplaces	NumberNoFireplace	129.00	0.00

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

tblFireplaces	NumberWood	548.25	0.00
tblGrading	AcresOfGrading	480.00	0.00
tblGrading	AcresOfGrading	90.00	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	210,121,732.63	168,097,386.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	64.50	0.00
tblWoodstoves	NumberNoncatalytic	64.50	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

Belmont Housing Element Update - Bay Area AQMD Air District, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3710	4.0073	3.0717	8.0200e-003	1.5109	0.1622	1.6732	0.5725	0.1499	0.7223	0.0000	723.3475	723.3475	0.1741	0.0267	735.6637
2024	0.8444	4.2468	7.8104	0.0267	2.2672	0.1203	2.3875	0.6597	0.1123	0.7720	0.0000	2,495.0263	2,495.0263	0.1602	0.1374	2,539.9703
2025	0.9065	4.0494	8.5961	0.0312	2.6898	0.0919	2.7817	0.7224	0.0864	0.8089	0.0000	2,948.5601	2,948.5601	0.1335	0.1720	3,003.1599
2026	0.8685	3.9996	8.2676	0.0305	2.6898	0.0913	2.7812	0.7224	0.0859	0.8083	0.0000	2,892.2195	2,892.2195	0.1296	0.1672	2,945.2694
2027	0.8338	3.9536	7.9887	0.0298	2.6899	0.0906	2.7805	0.7225	0.0852	0.8077	0.0000	2,838.3989	2,838.3989	0.1262	0.1625	2,889.9837
2028	0.7985	3.9008	7.7255	0.0291	2.6796	0.0895	2.7691	0.7197	0.0842	0.8039	0.0000	2,778.6152	2,778.6152	0.1227	0.1577	2,828.6753
2029	0.7702	3.8711	7.5498	0.0286	2.6899	0.0891	2.7790	0.7225	0.0838	0.8063	0.0000	2,741.3763	2,741.3763	0.1205	0.1540	2,790.2754
2030	20.4402	1.0531	2.7041	8.3600e-003	0.7037	0.0264	0.7301	0.1885	0.0262	0.2147	0.0000	789.0758	789.0758	0.0203	0.0312	798.8921
Maximum	20.4402	4.2468	8.5961	0.0312	2.6899	0.1622	2.7817	0.7225	0.1499	0.8089	0.0000	2,948.5601	2,948.5601	0.1741	0.1720	3,003.1599

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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

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3710	4.0073	3.0717	8.0200e-003	1.5109	0.1622	1.6732	0.5725	0.1499	0.7223	0.0000	723.3468	723.3468	0.1741	0.0267	735.6630
2024	0.8444	4.2468	7.8104	0.0267	2.2672	0.1203	2.3875	0.6597	0.1123	0.7720	0.0000	2,495.0258	2,495.0258	0.1602	0.1374	2,539.9698
2025	0.9065	4.0494	8.5961	0.0312	2.6898	0.0919	2.7817	0.7224	0.0864	0.8089	0.0000	2,948.5597	2,948.5597	0.1335	0.1720	3,003.1596
2026	0.8685	3.9996	8.2676	0.0305	2.6898	0.0913	2.7812	0.7224	0.0859	0.8083	0.0000	2,892.2191	2,892.2191	0.1296	0.1672	2,945.2691
2027	0.8338	3.9536	7.9887	0.0298	2.6899	0.0906	2.7805	0.7225	0.0852	0.8077	0.0000	2,838.3985	2,838.3985	0.1262	0.1625	2,889.9834
2028	0.7985	3.9008	7.7255	0.0291	2.6796	0.0895	2.7691	0.7197	0.0842	0.8039	0.0000	2,778.6149	2,778.6149	0.1227	0.1577	2,828.6750
2029	0.7702	3.8711	7.5498	0.0286	2.6899	0.0891	2.7790	0.7225	0.0838	0.8063	0.0000	2,741.3759	2,741.3759	0.1205	0.1540	2,790.2750
2030	20.4402	1.0531	2.7041	8.3600e-003	0.7037	0.0264	0.7301	0.1885	0.0262	0.2147	0.0000	789.0755	789.0755	0.0203	0.0312	798.8919
Maximum	20.4402	4.2468	8.5961	0.0312	2.6899	0.1622	2.7817	0.7225	0.1499	0.8089	0.0000	2,948.5597	2,948.5597	0.1741	0.1720	3,003.1596

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	1.0168	1.0168
2	4-1-2023	6-30-2023	1.0002	1.0002
3	7-1-2023	9-30-2023	1.1311	1.1311

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

4	10-1-2023	12-31-2023	1.2463	1.2463
5	1-1-2024	3-31-2024	1.1766	1.1766
6	4-1-2024	6-30-2024	1.2731	1.2731
7	7-1-2024	9-30-2024	1.2871	1.2871
8	10-1-2024	12-31-2024	1.3454	1.3454
9	1-1-2025	3-31-2025	1.2555	1.2555
10	4-1-2025	6-30-2025	1.2140	1.2140
11	7-1-2025	9-30-2025	1.2274	1.2274
12	10-1-2025	12-31-2025	1.2834	1.2834
13	1-1-2026	3-31-2026	1.2325	1.2325
14	4-1-2026	6-30-2026	1.1926	1.1926
15	7-1-2026	9-30-2026	1.2057	1.2057
16	10-1-2026	12-31-2026	1.2599	1.2599
17	1-1-2027	3-31-2027	1.2114	1.2114
18	4-1-2027	6-30-2027	1.1729	1.1729
19	7-1-2027	9-30-2027	1.1858	1.1858
20	10-1-2027	12-31-2027	1.2383	1.2383
21	1-1-2028	3-31-2028	1.2062	1.2062
22	4-1-2028	6-30-2028	1.1557	1.1557
23	7-1-2028	9-30-2028	1.1684	1.1684
24	10-1-2028	12-31-2028	1.2195	1.2195
25	1-1-2029	3-31-2029	1.1731	1.1731
26	4-1-2029	6-30-2029	1.1371	1.1371
27	7-1-2029	9-30-2029	1.1496	1.1496
28	10-1-2029	12-31-2029	1.1992	1.1992
29	1-1-2030	3-31-2030	0.8225	0.8225
30	4-1-2030	6-30-2030	0.2777	0.2777
31	7-1-2030	9-30-2030	8.2467	8.2467
		Highest	8.2467	8.2467

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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	15.3276	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470
Energy	0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270
Mobile	5.5970	6.0308	53.5413	0.1128	14.2003	0.0752	14.2755	3.7942	0.0701	3.8643	0.0000	10,994.1636	10,994.1636	0.6667	0.5047	11,161.2438
Waste						0.0000	0.0000		0.0000	0.0000	301.1371	0.0000	301.1371	17.7967	0.0000	746.0544
Water						0.0000	0.0000		0.0000	0.0000	59.4731	0.0000	59.4731	0.2047	0.1293	103.1323
Total	21.0643	7.5001	77.9321	0.1216	14.2003	0.3045	14.5048	3.7942	0.2994	4.0936	360.6102	12,416.0887	12,776.6989	18.7319	0.6594	13,441.5046

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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	15.3276	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470
Energy	0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270
Mobile	5.5970	6.0308	53.5413	0.1128	14.2003	0.0752	14.2755	3.7942	0.0701	3.8643	0.0000	10,994.1636	10,994.1636	0.6667	0.5047	11,161.2438
Waste						0.0000	0.0000		0.0000	0.0000	301.1371	0.0000	301.1371	17.7967	0.0000	746.0544
Water						0.0000	0.0000		0.0000	0.0000	59.4731	0.0000	59.4731	0.2047	0.1293	103.1323
Total	21.0643	7.5001	77.9321	0.1216	14.2003	0.3045	14.5048	3.7942	0.2994	4.0936	360.6102	12,416.0887	12,776.6989	18.7319	0.6594	13,441.5046

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2023	5/19/2023	5	100	
2	Site Preparation	Site Preparation	5/20/2023	8/11/2023	5	60	
3	Grading	Grading	8/12/2023	3/22/2024	5	160	

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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	3/23/2024	3/8/2030	5	1555
5	Paving	Paving	3/9/2030	8/2/2030	5	105
6	Architectural Coating	Architectural Coating	8/3/2030	12/27/2030	5	105

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 6,530,625; Residential Outdoor: 2,176,875; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

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

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	5,569.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,322.00	345.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	464.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.6027	0.0000	0.6027	0.0913	0.0000	0.0913	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1135	1.0742	0.9822	1.9400e-003		0.0499	0.0499		0.0464	0.0464	0.0000	169.9603	169.9603	0.0476	0.0000	171.1503
Total	0.1135	1.0742	0.9822	1.9400e-003	0.6027	0.0499	0.6525	0.0913	0.0464	0.1377	0.0000	169.9603	169.9603	0.0476	0.0000	171.1503

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

3.2 Demolition - 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	5.8100e-003	0.3776	0.0888	1.6800e-003	0.0471	3.0500e-003	0.0501	0.0130	2.9200e-003	0.0159	0.0000	166.1771	166.1771	5.4700e-003	0.0263	174.1610
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	1.9200e-003	1.3100e-003	0.0166	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6000e-003	0.0000	4.6447	4.6447	1.3000e-004	1.3000e-004	4.6861
Total	7.7300e-003	0.3789	0.1055	1.7300e-003	0.0530	3.0800e-003	0.0561	0.0145	2.9500e-003	0.0175	0.0000	170.8218	170.8218	5.6000e-003	0.0265	178.8471

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					0.6027	0.0000	0.6027	0.0913	0.0000	0.0913	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1135	1.0742	0.9822	1.9400e-003		0.0499	0.0499		0.0464	0.0464	0.0000	169.9601	169.9601	0.0476	0.0000	171.1501
Total	0.1135	1.0742	0.9822	1.9400e-003	0.6027	0.0499	0.6525	0.0913	0.0464	0.1377	0.0000	169.9601	169.9601	0.0476	0.0000	171.1501

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

3.2 Demolition - 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	5.8100e-003	0.3776	0.0888	1.6800e-003	0.0471	3.0500e-003	0.0501	0.0130	2.9200e-003	0.0159	0.0000	166.1771	166.1771	5.4700e-003	0.0263	174.1610
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	1.9200e-003	1.3100e-003	0.0166	5.0000e-005	5.9300e-003	3.0000e-005	5.9600e-003	1.5800e-003	3.0000e-005	1.6000e-003	0.0000	4.6447	4.6447	1.3000e-004	1.3000e-004	4.6861
Total	7.7300e-003	0.3789	0.1055	1.7300e-003	0.0530	3.0800e-003	0.0561	0.0145	2.9500e-003	0.0175	0.0000	170.8218	170.8218	5.6000e-003	0.0265	178.8471

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.8257	0.5473	1.1400e-003		0.0380	0.0380		0.0349	0.0349	0.0000	100.3521	100.3521	0.0325	0.0000	101.1635
Total	0.0798	0.8257	0.5473	1.1400e-003	0.5420	0.0380	0.5800	0.2979	0.0349	0.3329	0.0000	100.3521	100.3521	0.0325	0.0000	101.1635

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

3.3 Site Preparation - 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	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740
Total	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740

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					0.5420	0.0000	0.5420	0.2979	0.0000	0.2979	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0798	0.8257	0.5473	1.1400e-003		0.0380	0.0380		0.0349	0.0349	0.0000	100.3520	100.3520	0.0325	0.0000	101.1634
Total	0.0798	0.8257	0.5473	1.1400e-003	0.5420	0.0380	0.5800	0.2979	0.0349	0.3329	0.0000	100.3520	100.3520	0.0325	0.0000	101.1634

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

3.3 Site Preparation - 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	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740
Total	1.3800e-003	9.5000e-004	0.0120	4.0000e-005	4.2700e-003	2.0000e-005	4.2900e-003	1.1400e-003	2.0000e-005	1.1600e-003	0.0000	3.3442	3.3442	1.0000e-004	9.0000e-005	3.3740

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3011	0.0000	0.3011	0.1655	0.0000	0.1655	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1661	1.7258	1.4026	3.1000e-003		0.0712	0.0712		0.0655	0.0655	0.0000	272.6760	272.6760	0.0882	0.0000	274.8808
Total	0.1661	1.7258	1.4026	3.1000e-003	0.3011	0.0712	0.3723	0.1655	0.0655	0.2310	0.0000	272.6760	272.6760	0.0882	0.0000	274.8808

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

3.4 Grading - 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	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481
Total	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481

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					0.3011	0.0000	0.3011	0.1655	0.0000	0.1655	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1661	1.7258	1.4026	3.1000e-003		0.0712	0.0712		0.0655	0.0655	0.0000	272.6757	272.6757	0.0882	0.0000	274.8804
Total	0.1661	1.7258	1.4026	3.1000e-003	0.3011	0.0712	0.3723	0.1655	0.0655	0.2310	0.0000	272.6757	272.6757	0.0882	0.0000	274.8804

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3.4 Grading - 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	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481
Total	2.5600e-003	1.7500e-003	0.0222	7.0000e-005	7.9000e-003	4.0000e-005	7.9400e-003	2.1000e-003	4.0000e-005	2.1400e-003	0.0000	6.1930	6.1930	1.8000e-004	1.7000e-004	6.2481

3.4 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810
Total	0.0965	0.9713	0.8317	1.8600e-003	0.1807	0.0401	0.2207	0.0993	0.0369	0.1362	0.0000	163.5586	163.5586	0.0529	0.0000	164.8810

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

3.4 Grading - 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	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549
Total	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549

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					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0965	0.9713	0.8317	1.8600e-003		0.0401	0.0401		0.0369	0.0369	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808
Total	0.0965	0.9713	0.8317	1.8600e-003	0.1807	0.0401	0.2207	0.0993	0.0369	0.1362	0.0000	163.5584	163.5584	0.0529	0.0000	164.8808

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

3.4 Grading - 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	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549
Total	1.4400e-003	9.4000e-004	0.0124	4.0000e-005	4.7400e-003	2.0000e-005	4.7600e-003	1.2600e-003	2.0000e-005	1.2800e-003	0.0000	3.6241	3.6241	1.0000e-004	1.0000e-004	3.6549

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	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1676	234.1676	0.0554	0.0000	235.5520
Total	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1676	234.1676	0.0554	0.0000	235.5520

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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	0.0361	1.5499	0.4745	6.9500e-003	0.2286	9.1400e-003	0.2378	0.0661	8.7400e-003	0.0749	0.0000	677.1064	677.1064	0.0140	0.1002	707.2993
Worker	0.5617	0.3668	4.8589	0.0151	1.8532	9.1000e-003	1.8622	0.4930	8.3800e-003	0.5014	0.0000	1,416.5695	1,416.5695	0.0379	0.0371	1,428.5832
Total	0.5978	1.9168	5.3334	0.0221	2.0818	0.0182	2.1000	0.5591	0.0171	0.5763	0.0000	2,093.6760	2,093.6760	0.0518	0.1373	2,135.8824

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	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1673	234.1673	0.0554	0.0000	235.5517
Total	0.1486	1.3578	1.6329	2.7200e-003		0.0619	0.0619		0.0583	0.0583	0.0000	234.1673	234.1673	0.0554	0.0000	235.5517

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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

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	0.0361	1.5499	0.4745	6.9500e-003	0.2286	9.1400e-003	0.2378	0.0661	8.7400e-003	0.0749	0.0000	677.1064	677.1064	0.0140	0.1002	707.2993
Worker	0.5617	0.3668	4.8589	0.0151	1.8532	9.1000e-003	1.8622	0.4930	8.3800e-003	0.5014	0.0000	1,416.5695	1,416.5695	0.0379	0.0371	1,428.5832
Total	0.5978	1.9168	5.3334	0.0221	2.0818	0.0182	2.1000	0.5591	0.0171	0.5763	0.0000	2,093.6760	2,093.6760	0.0518	0.1373	2,135.8824

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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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 - 2025

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	0.0454	1.9951	0.6023	8.8200e-003	0.2954	0.0118	0.3072	0.0855	0.0113	0.0967	0.0000	859.3157	859.3157	0.0179	0.1270	897.6220
Worker	0.6826	0.4270	5.8948	0.0189	2.3944	0.0113	2.4057	0.6370	0.0104	0.6473	0.0000	1,786.5895	1,786.5895	0.0445	0.0450	1,801.1045
Total	0.7281	2.4221	6.4971	0.0277	2.6898	0.0231	2.7129	0.7224	0.0217	0.7441	0.0000	2,645.9052	2,645.9052	0.0624	0.1720	2,698.7264

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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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 - 2025

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	0.0454	1.9951	0.6023	8.8200e-003	0.2954	0.0118	0.3072	0.0855	0.0113	0.0967	0.0000	859.3157	859.3157	0.0179	0.1270	897.6220
Worker	0.6826	0.4270	5.8948	0.0189	2.3944	0.0113	2.4057	0.6370	0.0104	0.6473	0.0000	1,786.5895	1,786.5895	0.0445	0.0450	1,801.1045
Total	0.7281	2.4221	6.4971	0.0277	2.6898	0.0231	2.7129	0.7224	0.0217	0.7441	0.0000	2,645.9052	2,645.9052	0.0624	0.1720	2,698.7264

3.5 Building Construction - 2026

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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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 - 2026

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	0.0444	1.9835	0.5938	8.6600e-003	0.2954	0.0117	0.3072	0.0855	0.0112	0.0967	0.0000	843.5742	843.5742	0.0178	0.1246	881.1621
Worker	0.6457	0.3888	5.5748	0.0183	2.3944	0.0107	2.4051	0.6370	9.8700e-003	0.6469	0.0000	1,745.9904	1,745.9904	0.0406	0.0425	1,759.6739
Total	0.6901	2.3723	6.1685	0.0270	2.6898	0.0225	2.7123	0.7225	0.0211	0.7436	0.0000	2,589.5646	2,589.5646	0.0585	0.1672	2,640.8359

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.5 Building Construction - 2026

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	0.0444	1.9835	0.5938	8.6600e-003	0.2954	0.0117	0.3072	0.0855	0.0112	0.0967	0.0000	843.5742	843.5742	0.0178	0.1246	881.1621
Worker	0.6457	0.3888	5.5748	0.0183	2.3944	0.0107	2.4051	0.6370	9.8700e-003	0.6469	0.0000	1,745.9904	1,745.9904	0.0406	0.0425	1,759.6739
Total	0.6901	2.3723	6.1685	0.0270	2.6898	0.0225	2.7123	0.7225	0.0211	0.7436	0.0000	2,589.5646	2,589.5646	0.0585	0.1672	2,640.8359

3.5 Building Construction - 2027

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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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 - 2027

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	0.0436	1.9695	0.5863	8.4800e-003	0.2954	0.0117	0.3071	0.0855	0.0111	0.0966	0.0000	826.5709	826.5709	0.0177	0.1221	863.3905
Worker	0.6118	0.3569	5.3034	0.0178	2.3944	0.0101	2.4045	0.6370	9.3100e-003	0.6463	0.0000	1,709.1731	1,709.1731	0.0373	0.0405	1,722.1597
Total	0.6554	2.3263	5.8896	0.0263	2.6899	0.0218	2.7116	0.7225	0.0205	0.7429	0.0000	2,535.7440	2,535.7440	0.0550	0.1625	2,585.5502

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.5 Building Construction - 2027

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	0.0436	1.9695	0.5863	8.4800e-003	0.2954	0.0117	0.3071	0.0855	0.0111	0.0966	0.0000	826.5709	826.5709	0.0177	0.1221	863.3905
Worker	0.6118	0.3569	5.3034	0.0178	2.3944	0.0101	2.4045	0.6370	9.3100e-003	0.6463	0.0000	1,709.1731	1,709.1731	0.0373	0.0405	1,722.1597
Total	0.6554	2.3263	5.8896	0.0263	2.6899	0.0218	2.7116	0.7225	0.0205	0.7429	0.0000	2,535.7440	2,535.7440	0.0550	0.1625	2,585.5502

3.5 Building Construction - 2028

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

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3.5 Building Construction - 2028

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	0.0427	1.9508	0.5786	8.2800e-003	0.2943	0.0115	0.3058	0.0851	0.0110	0.0962	0.0000	807.0475	807.0475	0.0175	0.1191	842.9802
Worker	0.5781	0.3290	5.0560	0.0173	2.3852	9.4400e-003	2.3947	0.6346	8.6800e-003	0.6432	0.0000	1,670.0724	1,670.0724	0.0343	0.0386	1,682.4280
Total	0.6207	2.2798	5.6345	0.0255	2.6796	0.0210	2.7005	0.7197	0.0197	0.7394	0.0000	2,477.1199	2,477.1199	0.0518	0.1577	2,525.4082

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

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3.5 Building Construction - 2028

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	0.0427	1.9508	0.5786	8.2800e-003	0.2943	0.0115	0.3058	0.0851	0.0110	0.0962	0.0000	807.0475	807.0475	0.0175	0.1191	842.9802
Worker	0.5781	0.3290	5.0560	0.0173	2.3852	9.4400e-003	2.3947	0.6346	8.6800e-003	0.6432	0.0000	1,670.0724	1,670.0724	0.0343	0.0386	1,682.4280
Total	0.6207	2.2798	5.6345	0.0255	2.6796	0.0210	2.7005	0.7197	0.0197	0.7394	0.0000	2,477.1199	2,477.1199	0.0518	0.1577	2,525.4082

3.5 Building Construction - 2029

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	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335
Total	0.1785	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6549	302.6549	0.0711	0.0000	304.4335

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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 - 2029

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	0.0421	1.9362	0.5745	8.1200e-003	0.2955	0.0114	0.3069	0.0855	0.0109	0.0964	0.0000	791.4263	791.4263	0.0174	0.1167	826.6399
Worker	0.5496	0.3076	4.8763	0.0169	2.3944	8.8700e-003	2.4033	0.6370	8.1600e-003	0.6452	0.0000	1,647.2951	1,647.2951	0.0319	0.0373	1,659.2020
Total	0.5918	2.2438	5.4508	0.0250	2.6899	0.0203	2.7101	0.7225	0.0191	0.7415	0.0000	2,438.7214	2,438.7214	0.0493	0.1540	2,485.8419

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	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331
Total	0.1784	1.6273	2.0991	3.5200e-003		0.0689	0.0689		0.0648	0.0648	0.0000	302.6545	302.6545	0.0711	0.0000	304.4331

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3.5 Building Construction - 2029

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	0.0421	1.9362	0.5745	8.1200e-003	0.2955	0.0114	0.3069	0.0855	0.0109	0.0964	0.0000	791.4263	791.4263	0.0174	0.1167	826.6399
Worker	0.5496	0.3076	4.8763	0.0169	2.3944	8.8700e-003	2.4033	0.6370	8.1600e-003	0.6452	0.0000	1,647.2951	1,647.2951	0.0319	0.0373	1,659.2020
Total	0.5918	2.2438	5.4508	0.0250	2.6899	0.0203	2.7101	0.7225	0.0191	0.7415	0.0000	2,438.7214	2,438.7214	0.0493	0.1540	2,485.8419

3.5 Building Construction - 2030

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	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4010	64.4010	2.5800e-003	0.0000	64.4655
Total	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4010	64.4010	2.5800e-003	0.0000	64.4655

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3.5 Building Construction - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8100e-003	0.3618	0.1071	1.5000e-003	0.0555	2.1300e-003	0.0576	0.0161	2.0300e-003	0.0181	0.0000	145.6975	145.6975	3.2300e-003	0.0215	152.1767
Worker	0.0979	0.0542	0.8840	3.1000e-003	0.4495	1.5600e-003	0.4511	0.1196	1.4400e-003	0.1210	0.0000	304.4637	304.4637	5.5800e-003	6.7700e-003	306.6208
Total	0.1057	0.4159	0.9910	4.6000e-003	0.5050	3.6900e-003	0.5087	0.1356	3.4700e-003	0.1391	0.0000	450.1611	450.1611	8.8100e-003	0.0282	458.7975

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	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4009	64.4009	2.5800e-003	0.0000	64.4655
Total	0.0321	0.1944	0.3959	7.6000e-004		3.6300e-003	3.6300e-003		3.6300e-003	3.6300e-003	0.0000	64.4009	64.4009	2.5800e-003	0.0000	64.4655

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3.5 Building Construction - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8100e-003	0.3618	0.1071	1.5000e-003	0.0555	2.1300e-003	0.0576	0.0161	2.0300e-003	0.0181	0.0000	145.6975	145.6975	3.2300e-003	0.0215	152.1767
Worker	0.0979	0.0542	0.8840	3.1000e-003	0.4495	1.5600e-003	0.4511	0.1196	1.4400e-003	0.1210	0.0000	304.4637	304.4637	5.5800e-003	6.7700e-003	306.6208
Total	0.1057	0.4159	0.9910	4.6000e-003	0.5050	3.6900e-003	0.5087	0.1356	3.4700e-003	0.1391	0.0000	450.1611	450.1611	8.8100e-003	0.0282	458.7975

3.6 Paving - 2030

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	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5225	126.5225	5.9300e-003	0.0000	126.6707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5225	126.5225	5.9300e-003	0.0000	126.6707

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

3.6 Paving - 2030

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	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445
Total	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445

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	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5223	126.5223	5.9300e-003	0.0000	126.6706
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0727	0.3738	0.8321	1.4700e-003		0.0174	0.0174		0.0174	0.0174	0.0000	126.5223	126.5223	5.9300e-003	0.0000	126.6706

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3.6 Paving - 2030

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	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445
Total	1.3500e-003	7.5000e-004	0.0122	4.0000e-005	6.2200e-003	2.0000e-005	6.2400e-003	1.6600e-003	2.0000e-005	1.6800e-003	0.0000	4.2146	4.2146	8.0000e-005	9.0000e-005	4.2445

3.7 Architectural Coating - 2030

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	20.1796					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181
Total	20.1865	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181

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3.7 Architectural Coating - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0419	0.0232	0.3785	1.3300e-003	0.1925	6.7000e-004	0.1932	0.0512	6.1000e-004	0.0518	0.0000	130.3720	130.3720	2.3900e-003	2.9000e-003	131.2957
Total	0.0419	0.0232	0.3785	1.3300e-003	0.1925	6.7000e-004	0.1932	0.0512	6.1000e-004	0.0518	0.0000	130.3720	130.3720	2.3900e-003	2.9000e-003	131.2957

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	20.1796					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8600e-003	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181
Total	20.1865	0.0450	0.0944	1.6000e-004		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	13.4046	13.4046	5.4000e-004	0.0000	13.4181

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3.7 Architectural Coating - 2030

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	0.0419	0.0232	0.3785	1.3300e-003	0.1925	6.7000e-004	0.1932	0.0512	6.1000e-004	0.0518	0.0000	130.3720	130.3720	2.3900e-003	2.9000e-003	131.2957
Total	0.0419	0.0232	0.3785	1.3300e-003	0.1925	6.7000e-004	0.1932	0.0512	6.1000e-004	0.0518	0.0000	130.3720	130.3720	2.3900e-003	2.9000e-003	131.2957

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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	5.5970	6.0308	53.5413	0.1128	14.2003	0.0752	14.2755	3.7942	0.0701	3.8643	0.0000	10,994.1636	10,994.1636	0.6667	0.5047	11,161.2438
Unmitigated	5.5970	6.0308	53.5413	0.1128	14.2003	0.0752	14.2755	3.7942	0.0701	3.8643	0.0000	10,994.1636	10,994.1636	0.6667	0.5047	11,161.2438

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	17,544.00	15,834.75	13,190.25	38,519,301	38,519,301
Total	17,544.00	15,834.75	13,190.25	38,519,301	38,519,301

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	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

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270
NaturalGas Unmitigated	0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.59129e+007	0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270
Total		0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.59129e+007	0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270
Total		0.1397	1.1940	0.5081	7.6200e-003		0.0965	0.0965		0.0965	0.0965	0.0000	1,382.8097	1,382.8097	0.0265	0.0254	1,391.0270

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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	1.2513e+007	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.2513e+007	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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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	15.3276	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470
Unmitigated	15.3276	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	12.5952					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	0.7144	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470
Total	15.3276	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.0180					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	12.5952					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	0.7144	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470
Total	15.3276	0.2753	23.8827	1.2600e-003		0.1328	0.1328		0.1328	0.1328	0.0000	39.1154	39.1154	0.0373	0.0000	40.0470

7.0 Water Detail

7.1 Mitigation Measures Water

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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	59.4731	0.2047	0.1293	103.1323
Unmitigated	59.4731	0.2047	0.1293	103.1323

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	168.097 / 132.468	59.4731	0.2047	0.1293	103.1323
Total		59.4731	0.2047	0.1293	103.1323

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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	168.097 / 132.468	59.4731	0.2047	0.1293	103.1323
Total		59.4731	0.2047	0.1293	103.1323

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	301.1371	17.7967	0.0000	746.0544
Unmitigated	301.1371	17.7967	0.0000	746.0544

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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	1483.5	301.1371	17.7967	0.0000	746.0544
Total		301.1371	17.7967	0.0000	746.0544

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	1483.5	301.1371	17.7967	0.0000	746.0544
Total		301.1371	17.7967	0.0000	746.0544

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
