

Attachment 6. CalEEMod Air Quality Model

HUD Mixed Use Project at 493 Eastmoor Dr - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**HUD Mixed Use Project at 493 Eastmoor Dr
San Mateo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	72.00	Dwelling Unit	0.37	56,403.00	206
Enclosed Parking with Elevator	32.00	Space	0.00	12,800.00	0
General Office Building	1.20	1000sqft	0.00	1,196.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2026
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project: 72 affordable dwelling units, 32 space parking garage, and 1.196 ksf general office building on 0.37 acres total

Construction Phase - Adjusted construction schedule based on applicant input

Off-road Equipment - Default

Grading - 1,500 CY of soils to be exported

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

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Demolition - 225 tons of debris to be exported based on demolition of 15,184 square feet of existing paved areas

Trips and VMT - Rounded average trips up to even numbers. Added 2 vendor trips during Site Prep and Grading phases to account for water trucks

Vehicle Trips - Adjusted trip rates to match total trips (minus transit, bike, walking, other) in traffic report, and adjusted Saturday and Sunday trips proportionally

Woodstoves - No fireplaces or woodstoves assumed

Energy Use - Adjusted energy demand based on all-electric building design

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	100.00	414.00
tblConstructionPhase	NumDays	2.00	8.00
tblConstructionPhase	NumDays	5.00	21.00
tblConstructionPhase	NumDays	1.00	4.00
tblConstructionPhase	PhaseEndDate	10/18/2024	2/27/2026
tblConstructionPhase	PhaseEndDate	10/4/2024	12/31/2025
tblConstructionPhase	PhaseEndDate	5/17/2024	5/30/2024
tblConstructionPhase	PhaseEndDate	10/11/2024	1/29/2026
tblConstructionPhase	PhaseEndDate	5/15/2024	5/20/2024
tblConstructionPhase	PhaseStartDate	10/12/2024	1/30/2026
tblConstructionPhase	PhaseStartDate	5/18/2024	5/31/2024
tblConstructionPhase	PhaseStartDate	5/16/2024	5/21/2024
tblConstructionPhase	PhaseStartDate	10/5/2024	1/1/2026
tblEnergyUse	NT24E	3,054.10	3,333.39
tblEnergyUse	NT24E	4.80	5.46
tblEnergyUse	NT24NG	2,615.00	0.00
tblEnergyUse	NT24NG	1.01	0.00
tblEnergyUse	T24E	90.83	1,908.77
tblEnergyUse	T24E	3.66	7.94
tblEnergyUse	T24NG	5,828.01	0.00
tblEnergyUse	T24NG	18.14	0.00

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tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberGas	10.80	0.00
tblFireplaces	NumberNoFireplace	2.88	72.00
tblFireplaces	NumberWood	12.24	0.00
tblGrading	MaterialExported	0.00	1,500.00
tblLandUse	LandUseSquareFeet	72,000.00	56,403.00
tblLandUse	LotAcreage	1.89	0.37
tblLandUse	LotAcreage	0.29	0.00
tblLandUse	LotAcreage	0.03	0.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblVehicleTrips	ST_TR	4.91	3.83
tblVehicleTrips	ST_TR	2.21	1.72
tblVehicleTrips	SU_TR	4.09	3.19
tblVehicleTrips	SU_TR	0.70	0.55
tblVehicleTrips	WD_TR	5.44	4.24
tblVehicleTrips	WD_TR	9.74	7.59
tblWoodstoves	NumberCatalytic	1.44	0.00
tblWoodstoves	NumberNoncatalytic	1.44	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.0636	0.5927	0.7088	1.5100e-003	0.0673	0.0253	0.0926	0.0222	0.0234	0.0456	0.0000	137.4520	137.4520	0.0303	4.1500e-003	139.4457
2025	0.0880	0.7842	1.0691	2.2000e-003	0.0681	0.0321	0.1002	0.0183	0.0295	0.0478	0.0000	198.9991	198.9991	0.0450	4.9200e-003	201.5916
2026	0.4143	0.0640	0.0979	1.7000e-004	2.4800e-003	2.8500e-003	5.3300e-003	6.6000e-004	2.7000e-003	3.3600e-003	0.0000	14.2257	14.2257	3.0600e-003	4.0000e-005	14.3136
Maximum	0.4143	0.7842	1.0691	2.2000e-003	0.0681	0.0321	0.1002	0.0222	0.0295	0.0478	0.0000	198.9991	198.9991	0.0450	4.9200e-003	201.5916

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					
2024	0.0636	0.5927	0.7088	1.5100e-003	0.0673	0.0253	0.0926	0.0222	0.0234	0.0456	0.0000	137.4519	137.4519	0.0303	4.1500e-003	139.4456
2025	0.0880	0.7842	1.0691	2.2000e-003	0.0681	0.0321	0.1002	0.0183	0.0295	0.0478	0.0000	198.9989	198.9989	0.0450	4.9200e-003	201.5915
2026	0.4143	0.0640	0.0979	1.7000e-004	2.4800e-003	2.8500e-003	5.3300e-003	6.6000e-004	2.7000e-003	3.3600e-003	0.0000	14.2257	14.2257	3.0600e-003	4.0000e-005	14.3136
Maximum	0.4143	0.7842	1.0691	2.2000e-003	0.0681	0.0321	0.1002	0.0222	0.0295	0.0478	0.0000	198.9989	198.9989	0.0450	4.9200e-003	201.5915

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2024	7-31-2024	0.2565	0.2565
2	8-1-2024	10-31-2024	0.2376	0.2376
3	11-1-2024	1-31-2025	0.2325	0.2325
4	2-1-2025	4-30-2025	0.2127	0.2127
5	5-1-2025	7-31-2025	0.2188	0.2188
6	8-1-2025	10-31-2025	0.2194	0.2194
7	11-1-2025	1-31-2026	0.2322	0.2322
8	2-1-2026	4-30-2026	0.3859	0.3859
		Highest	0.3859	0.3859

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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	0.2824	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	48.1826	48.1826	7.8000e-003	9.4000e-004	48.6591
Mobile	0.1081	0.0974	1.0373	2.1500e-003	0.2520	1.3900e-003	0.2534	0.0673	1.2900e-003	0.0686	0.0000	198.3839	198.3839	0.0134	8.7400e-003	201.3249
Waste						0.0000	0.0000		0.0000	0.0000	6.9504	0.0000	6.9504	0.4108	0.0000	17.2194
Water						0.0000	0.0000		0.0000	0.0000	1.5559	3.4554	5.0113	0.1604	3.8400e-003	10.1652
Total	0.3906	0.1036	1.5717	2.1800e-003	0.2520	4.3500e-003	0.2563	0.0673	4.2500e-003	0.0716	8.5063	250.8958	259.4022	0.5932	0.0135	278.2633

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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	0.2824	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	48.1826	48.1826	7.8000e-003	9.4000e-004	48.6591
Mobile	0.1081	0.0974	1.0373	2.1500e-003	0.2520	1.3900e-003	0.2534	0.0673	1.2900e-003	0.0686	0.0000	198.3839	198.3839	0.0134	8.7400e-003	201.3249
Waste						0.0000	0.0000		0.0000	0.0000	6.9504	0.0000	6.9504	0.4108	0.0000	17.2194
Water						0.0000	0.0000		0.0000	0.0000	1.5559	3.4554	5.0113	0.1604	3.8400e-003	10.1652
Total	0.3906	0.1036	1.5717	2.1800e-003	0.2520	4.3500e-003	0.2563	0.0673	4.2500e-003	0.0716	8.5063	250.8958	259.4022	0.5932	0.0135	278.2633

	ROG	NOx	CO	SO2	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	5/1/2024	5/14/2024	5	10	
2	Site Preparation	Site Preparation	5/15/2024	5/20/2024	5	4	
3	Grading	Grading	5/21/2024	5/30/2024	5	8	

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4	Building Construction	Building Construction	5/31/2024	12/31/2025	5	414
5	Paving	Paving	1/1/2026	1/29/2026	5	21
6	Architectural Coating	Architectural Coating	1/30/2026	2/27/2026	5	21

Acres of Grading (Site Preparation Phase): 2

Acres of Grading (Grading Phase): 6

Acres of Paving: 0

Residential Indoor: 114,216; Residential Outdoor: 38,072; Non-Residential Indoor: 1,794; Non-Residential Outdoor: 598; Striped Parking Area: 768 (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
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Grading	Graders	1	6.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	22.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	2.00	188.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	58.00	10.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 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					2.4100e-003	0.0000	2.4100e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0800e-003	0.0274	0.0370	6.0000e-005		1.2500e-003	1.2500e-003		1.2000e-003	1.2000e-003	0.0000	5.2104	5.2104	9.4000e-004	0.0000	5.2339
Total	3.0800e-003	0.0274	0.0370	6.0000e-005	2.4100e-003	1.2500e-003	3.6600e-003	3.6000e-004	1.2000e-003	1.5600e-003	0.0000	5.2104	5.2104	9.4000e-004	0.0000	5.2339

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3.2 Demolition - 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	3.0000e-005	1.7000e-003	5.8000e-004	1.0000e-005	1.8000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7365	0.7365	8.0000e-005	1.2000e-004	0.7739
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	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2830	0.2830	1.0000e-005	1.0000e-005	0.2853
Total	1.3000e-004	1.7600e-003	1.4900e-003	1.0000e-005	5.7000e-004	1.0000e-005	6.0000e-004	1.5000e-004	1.0000e-005	1.7000e-004	0.0000	1.0196	1.0196	9.0000e-005	1.3000e-004	1.0591

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					2.4100e-003	0.0000	2.4100e-003	3.6000e-004	0.0000	3.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0800e-003	0.0274	0.0370	6.0000e-005		1.2500e-003	1.2500e-003		1.2000e-003	1.2000e-003	0.0000	5.2104	5.2104	9.4000e-004	0.0000	5.2339
Total	3.0800e-003	0.0274	0.0370	6.0000e-005	2.4100e-003	1.2500e-003	3.6600e-003	3.6000e-004	1.2000e-003	1.5600e-003	0.0000	5.2104	5.2104	9.4000e-004	0.0000	5.2339

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3.2 Demolition - 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	3.0000e-005	1.7000e-003	5.8000e-004	1.0000e-005	1.8000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7365	0.7365	8.0000e-005	1.2000e-004	0.7739
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	1.0000e-004	6.0000e-005	9.1000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2830	0.2830	1.0000e-005	1.0000e-005	0.2853
Total	1.3000e-004	1.7600e-003	1.4900e-003	1.0000e-005	5.7000e-004	1.0000e-005	6.0000e-004	1.5000e-004	1.0000e-005	1.7000e-004	0.0000	1.0196	1.0196	9.0000e-005	1.3000e-004	1.0591

3.3 Site Preparation - 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					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	0.0112	7.7800e-003	2.0000e-005		4.0000e-004	4.0000e-004		3.7000e-004	3.7000e-004	0.0000	1.7096	1.7096	5.5000e-004	0.0000	1.7235
Total	1.0000e-003	0.0112	7.7800e-003	2.0000e-005	1.0600e-003	4.0000e-004	1.4600e-003	1.1000e-004	3.7000e-004	4.8000e-004	0.0000	1.7096	1.7096	5.5000e-004	0.0000	1.7235

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3.3 Site Preparation - 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	1.9000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0835	0.0835	1.0000e-005	1.0000e-005	0.0873
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0679	0.0679	0.0000	0.0000	0.0685
Total	2.0000e-005	2.1000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1514	0.1514	1.0000e-005	1.0000e-005	0.1557

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					1.0600e-003	0.0000	1.0600e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0000e-003	0.0112	7.7800e-003	2.0000e-005		4.0000e-004	4.0000e-004		3.7000e-004	3.7000e-004	0.0000	1.7096	1.7096	5.5000e-004	0.0000	1.7235
Total	1.0000e-003	0.0112	7.7800e-003	2.0000e-005	1.0600e-003	4.0000e-004	1.4600e-003	1.1000e-004	3.7000e-004	4.8000e-004	0.0000	1.7096	1.7096	5.5000e-004	0.0000	1.7235

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 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	1.9000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0835	0.0835	1.0000e-005	1.0000e-005	0.0873
Worker	2.0000e-005	2.0000e-005	2.2000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0679	0.0679	0.0000	0.0000	0.0685
Total	2.0000e-005	2.1000e-004	2.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1514	0.1514	1.0000e-005	1.0000e-005	0.1557

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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0389	0.0222	6.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	4.9520	4.9520	1.6000e-003	0.0000	4.9920
Total	3.6500e-003	0.0389	0.0222	6.0000e-005	0.0213	1.6000e-003	0.0229	0.0103	1.4700e-003	0.0118	0.0000	4.9520	4.9520	1.6000e-003	0.0000	4.9920

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.2000e-004	0.0146	4.9600e-003	6.0000e-005	1.5800e-003	1.0000e-004	1.6700e-003	4.3000e-004	9.0000e-005	5.3000e-004	0.0000	6.2940	6.2940	6.6000e-004	1.0200e-003	6.6130
Vendor	1.0000e-005	3.7000e-004	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1670	0.1670	1.0000e-005	2.0000e-005	0.1746
Worker	7.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1812	0.1812	0.0000	0.0000	0.1826
Total	3.0000e-004	0.0150	5.6700e-003	6.0000e-005	1.8800e-003	1.0000e-004	1.9700e-003	5.2000e-004	9.0000e-005	6.2000e-004	0.0000	6.6421	6.6421	6.7000e-004	1.0400e-003	6.9702

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					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6500e-003	0.0389	0.0222	6.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	4.9520	4.9520	1.6000e-003	0.0000	4.9920
Total	3.6500e-003	0.0389	0.0222	6.0000e-005	0.0213	1.6000e-003	0.0229	0.0103	1.4700e-003	0.0118	0.0000	4.9520	4.9520	1.6000e-003	0.0000	4.9920

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.2000e-004	0.0146	4.9600e-003	6.0000e-005	1.5800e-003	1.0000e-004	1.6700e-003	4.3000e-004	9.0000e-005	5.3000e-004	0.0000	6.2940	6.2940	6.6000e-004	1.0200e-003	6.6130
Vendor	1.0000e-005	3.7000e-004	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1670	0.1670	1.0000e-005	2.0000e-005	0.1746
Worker	7.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1812	0.1812	0.0000	0.0000	0.1826
Total	3.0000e-004	0.0150	5.6700e-003	6.0000e-005	1.8800e-003	1.0000e-004	1.9700e-003	5.2000e-004	9.0000e-005	6.2000e-004	0.0000	6.6421	6.6421	6.7000e-004	1.0400e-003	6.9702

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	0.0455	0.4570	0.5407	8.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	76.6854	76.6854	0.0248	0.0000	77.3055
Total	0.0455	0.4570	0.5407	8.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	76.6854	76.6854	0.0248	0.0000	77.3055

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.9000e-004	0.0357	0.0129	1.6000e-004	4.9900e-003	1.9000e-004	5.1800e-003	1.4400e-003	1.8000e-004	1.6200e-003	0.0000	15.9644	15.9644	1.0200e-003	2.3600e-003	16.6923
Worker	9.0700e-003	5.6000e-003	0.0809	2.7000e-004	0.0349	1.6000e-004	0.0351	9.3000e-003	1.5000e-004	9.4400e-003	0.0000	25.1170	25.1170	6.0000e-004	6.1000e-004	25.3135
Total	9.8600e-003	0.0413	0.0937	4.3000e-004	0.0399	3.5000e-004	0.0403	0.0107	3.3000e-004	0.0111	0.0000	41.0814	41.0814	1.6200e-003	2.9700e-003	42.0058

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	0.0455	0.4570	0.5407	8.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	76.6854	76.6854	0.0248	0.0000	77.3054
Total	0.0455	0.4570	0.5407	8.7000e-004		0.0216	0.0216		0.0199	0.0199	0.0000	76.6854	76.6854	0.0248	0.0000	77.3054

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	7.9000e-004	0.0357	0.0129	1.6000e-004	4.9900e-003	1.9000e-004	5.1800e-003	1.4400e-003	1.8000e-004	1.6200e-003	0.0000	15.9644	15.9644	1.0200e-003	2.3600e-003	16.6923
Worker	9.0700e-003	5.6000e-003	0.0809	2.7000e-004	0.0349	1.6000e-004	0.0351	9.3000e-003	1.5000e-004	9.4400e-003	0.0000	25.1170	25.1170	6.0000e-004	6.1000e-004	25.3135
Total	9.8600e-003	0.0413	0.0937	4.3000e-004	0.0399	3.5000e-004	0.0403	0.0107	3.3000e-004	0.0111	0.0000	41.0814	41.0814	1.6200e-003	2.9700e-003	42.0058

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	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8859	130.8859	0.0423	0.0000	131.9442
Total	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8859	130.8859	0.0423	0.0000	131.9442

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.3100e-003	0.0601	0.0220	2.6000e-004	8.5200e-003	3.2000e-004	8.8400e-003	2.4600e-003	3.0000e-004	2.7700e-003	0.0000	26.6984	26.6984	1.7800e-003	3.9400e-003	27.9184
Worker	0.0148	8.6500e-003	0.1300	4.5000e-004	0.0596	2.6000e-004	0.0599	0.0159	2.4000e-004	0.0161	0.0000	41.4148	41.4148	9.3000e-004	9.8000e-004	41.7291
Total	0.0161	0.0688	0.1520	7.1000e-004	0.0681	5.8000e-004	0.0687	0.0183	5.4000e-004	0.0189	0.0000	68.1132	68.1132	2.7100e-003	4.9200e-003	69.6475

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	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8858	130.8858	0.0423	0.0000	131.9440
Total	0.0719	0.7154	0.9172	1.4900e-003		0.0315	0.0315		0.0290	0.0290	0.0000	130.8858	130.8858	0.0423	0.0000	131.9440

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.3100e-003	0.0601	0.0220	2.6000e-004	8.5200e-003	3.2000e-004	8.8400e-003	2.4600e-003	3.0000e-004	2.7700e-003	0.0000	26.6984	26.6984	1.7800e-003	3.9400e-003	27.9184
Worker	0.0148	8.6500e-003	0.1300	4.5000e-004	0.0596	2.6000e-004	0.0599	0.0159	2.4000e-004	0.0161	0.0000	41.4148	41.4148	9.3000e-004	9.8000e-004	41.7291
Total	0.0161	0.0688	0.1520	7.1000e-004	0.0681	5.8000e-004	0.0687	0.0183	5.4000e-004	0.0189	0.0000	68.1132	68.1132	2.7100e-003	4.9200e-003	69.6475

3.6 Paving - 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	5.9200e-003	0.0517	0.0738	1.2000e-004		2.3000e-003	2.3000e-003		2.1500e-003	2.1500e-003	0.0000	9.8709	9.8709	2.8800e-003	0.0000	9.9428
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.9200e-003	0.0517	0.0738	1.2000e-004		2.3000e-003	2.3000e-003		2.1500e-003	2.1500e-003	0.0000	9.8709	9.8709	2.8800e-003	0.0000	9.9428

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3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.0000e-004	3.0900e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.0043	1.0043	2.0000e-005	2.0000e-005	1.0117
Total	3.5000e-004	2.0000e-004	3.0900e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.0043	1.0043	2.0000e-005	2.0000e-005	1.0117

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	5.9200e-003	0.0517	0.0738	1.2000e-004		2.3000e-003	2.3000e-003		2.1500e-003	2.1500e-003	0.0000	9.8709	9.8709	2.8800e-003	0.0000	9.9428
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.9200e-003	0.0517	0.0738	1.2000e-004		2.3000e-003	2.3000e-003		2.1500e-003	2.1500e-003	0.0000	9.8709	9.8709	2.8800e-003	0.0000	9.9428

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3.6 Paving - 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.0000e-004	3.0900e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.0043	1.0043	2.0000e-005	2.0000e-005	1.0117
Total	3.5000e-004	2.0000e-004	3.0900e-003	1.0000e-005	1.4900e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.0000e-004	0.0000	1.0043	1.0043	2.0000e-005	2.0000e-005	1.0117

3.7 Architectural Coating - 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					
Archit. Coating	0.4060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7900e-003	0.0120	0.0190	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.6809	2.6809	1.5000e-004	0.0000	2.6846
Total	0.4077	0.0120	0.0190	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.6809	2.6809	1.5000e-004	0.0000	2.6846

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3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	2.4000e-004	1.3000e-004	2.0600e-003	1.0000e-005	9.9000e-004	0.0000	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6695	0.6695	1.0000e-005	2.0000e-005	0.6745
Total	2.4000e-004	1.3000e-004	2.0600e-003	1.0000e-005	9.9000e-004	0.0000	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6695	0.6695	1.0000e-005	2.0000e-005	0.6745

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4060					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7900e-003	0.0120	0.0190	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.6809	2.6809	1.5000e-004	0.0000	2.6846
Total	0.4077	0.0120	0.0190	3.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	2.6809	2.6809	1.5000e-004	0.0000	2.6846

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 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	0.0000	0.0000	0.0000	0.0000	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	2.4000e-004	1.3000e-004	2.0600e-003	1.0000e-005	9.9000e-004	0.0000	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6695	0.6695	1.0000e-005	2.0000e-005	0.6745
Total	2.4000e-004	1.3000e-004	2.0600e-003	1.0000e-005	9.9000e-004	0.0000	1.0000e-003	2.6000e-004	0.0000	2.7000e-004	0.0000	0.6695	0.6695	1.0000e-005	2.0000e-005	0.6745

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1081	0.0974	1.0373	2.1500e-003	0.2520	1.3900e-003	0.2534	0.0673	1.2900e-003	0.0686	0.0000	198.3839	198.3839	0.0134	8.7400e-003	201.3249
Unmitigated	0.1081	0.0974	1.0373	2.1500e-003	0.2520	1.3900e-003	0.2534	0.0673	1.2900e-003	0.0686	0.0000	198.3839	198.3839	0.0134	8.7400e-003	201.3249

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	305.42	275.76	229.68	670,631	670,631
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	9.08	2.06	0.66	16,430	16,430
Total	314.51	277.82	230.34	687,061	687,061

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
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Enclosed Parking with Elevator	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

General Office Building	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
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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	48.1826	48.1826	7.8000e-003	9.4000e-004	48.6591
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	48.1826	48.1826	7.8000e-003	9.4000e-004	48.6591
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

HUD Mixed Use Project at 493 Eastmoor Dr - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	430819	39.8610	6.4500e-003	7.8000e-004	40.2552
Enclosed Parking with Elevator	69632	6.4426	1.0400e-003	1.3000e-004	6.5063
General Office Building	20308.1	1.8790	3.0000e-004	4.0000e-005	1.8976
Total		48.1826	7.7900e-003	9.5000e-004	48.6591

HUD Mixed Use Project at 493 Eastmoor Dr - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	430819	39.8610	6.4500e-003	7.8000e-004	40.2552
Enclosed Parking with Elevator	69632	6.4426	1.0400e-003	1.3000e-004	6.5063
General Office Building	20308.1	1.8790	3.0000e-004	4.0000e-005	1.8976
Total		48.1826	7.7900e-003	9.5000e-004	48.6591

6.0 Area Detail

6.1 Mitigation Measures Area

HUD Mixed Use Project at 493 Eastmoor Dr - San Mateo County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2824	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948
Unmitigated	0.2824	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0406					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2258					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	0.0161	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948
Total	0.2824	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0406					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2258					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	0.0161	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948
Total	0.2824	6.1500e-003	0.5344	3.0000e-005		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	0.8739	0.8739	8.4000e-004	0.0000	0.8948

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 Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.0113	0.1604	3.8400e-003	10.1652
Unmitigated	5.0113	0.1604	3.8400e-003	10.1652

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.69109 / 2.95743	4.7946	0.1534	3.6700e-003	9.7243
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.213281 / 0.13072	0.2168	6.9700e-003	1.7000e-004	0.4409
Total		5.0113	0.1604	3.8400e-003	10.1652

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.69109 / 2.95743	4.7946	0.1534	3.6700e-003	9.7243
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0.213281 / 0.13072	0.2168	6.9700e-003	1.7000e-004	0.4409
Total		5.0113	0.1604	3.8400e-003	10.1652

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.9504	0.4108	0.0000	17.2194
Unmitigated	6.9504	0.4108	0.0000	17.2194

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	33.12	6.7231	0.3973	0.0000	16.6561
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.12	0.2274	0.0134	0.0000	0.5633
Total		6.9504	0.4108	0.0000	17.2194

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	33.12	6.7231	0.3973	0.0000	16.6561
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.12	0.2274	0.0134	0.0000	0.5633
Total		6.9504	0.4108	0.0000	17.2194

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

11.0 Vegetation
