

Appendix AQ

California Emissions Estimator Model Outputs

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Annual

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

1919 Williams Street Warehouse Project - AQ

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.60	1000sqft	0.00	7,600.00	0
Unrefrigerated Warehouse-No Rail	213.90	1000sqft	9.80	213,895.00	0
Other Asphalt Surfaces	1.76	Acre	0.00	76,665.60	0
Other Non-Asphalt Surfaces	63.62	1000sqft	0.00	63,623.00	0
Parking Lot	171.00	Space	0.00	68,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
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 - Based on applicant-provided information. Other Non-Asphalt Surfaces = 34,283 sf landscaping + 29,340 sf trailer parking. Other Asphalt Surfaces = Total site ac - (Building, Landscape, Parking Lot, Other Non-Asphalt Surfaces ac).

Construction Phase - Based on applicant-provided information.

Trips and VMT - Based on applicant-provided information.

Demolition -

Grading -

Architectural Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

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Area Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

Water And Wastewater - Project will not include septic tanks. Wastewater will be treated at City of San Leandro Water Pollution Control Plant, which does not use facultative lagoons.

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 engines as a best management practice

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Based on prior experience with similar warehouse projects, 1 natural gas forklift per 10,000 sf was assumed to operate on project site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	218.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	30.00
tblLandUse	LandUseSquareFeet	213,900.00	213,895.00
tblLandUse	LandUseSquareFeet	63,620.00	63,623.00
tblLandUse	LotAcreage	0.17	0.00
tblLandUse	LotAcreage	4.91	9.80
tblLandUse	LotAcreage	1.76	0.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	1.54	0.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG

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tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	21.00
tblSolidWaste	SolidWasteGenerationRate	7.07	7.25
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	VendorTripNumber	71.00	69.00
tblTripsAndVMT	WorkerTripNumber	180.00	175.00
tblTripsAndVMT	WorkerTripNumber	36.00	35.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,350,776.48	1,386,323.23
tblWater	OutdoorWaterUseRate	827,895.26	849,681.98
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3539	3.3797	2.9202	6.9700e-003	0.8562	0.1494	1.0056	0.3540	0.1392	0.4932	0.0000	628.3395	628.3395	0.1120	0.0262	638.9332
2023	0.6264	0.7100	0.8882	2.0500e-003	0.0651	0.0303	0.0954	0.0177	0.0284	0.0461	0.0000	184.9577	184.9577	0.0273	7.6300e-003	187.9149
Maximum	0.6264	3.3797	2.9202	6.9700e-003	0.8562	0.1494	1.0056	0.3540	0.1392	0.4932	0.0000	628.3395	628.3395	0.1120	0.0262	638.9332

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1621	2.6767	3.2774	6.9700e-003	0.8562	0.1299	0.9860	0.3540	0.1297	0.4837	0.0000	628.3391	628.3391	0.1120	0.0262	638.9327
2023	0.5900	0.7178	0.9713	2.0500e-003	0.0651	0.0383	0.1034	0.0177	0.0383	0.0560	0.0000	184.9576	184.9576	0.0273	7.6300e-003	187.9148
Maximum	0.5900	2.6767	3.2774	6.9700e-003	0.8562	0.1299	0.9860	0.3540	0.1297	0.4837	0.0000	628.3391	628.3391	0.1120	0.0262	638.9327

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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	23.27	17.00	-11.56	0.00	0.00	6.37	1.04	0.00	-0.21	-0.06	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	3-1-2022	5-31-2022	1.7908	1.1578
2	6-1-2022	8-31-2022	0.9682	0.8111
3	9-1-2022	11-30-2022	0.7215	0.6428
4	12-1-2022	2-28-2023	0.9010	0.8586
5	3-1-2023	5-31-2023	0.6804	0.6677
		Highest	1.7908	1.1578

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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	0.9332	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Energy	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	108.6114	108.6114	0.0142	2.1000e-003	109.5925
Mobile	0.2063	0.2492	2.0301	4.3000e-003	0.4498	3.1700e-003	0.4530	0.1202	2.9600e-003	0.1231	0.0000	400.8349	400.8349	0.0252	0.0188	407.0744
Offroad	0.0397	1.9365	25.3037	4.1700e-003		0.0312	0.0312		0.0312	0.0312	0.0000	478.8921	478.8921	0.1549	0.0000	482.7641
Waste						0.0000	0.0000		0.0000	0.0000	42.2871	0.0000	42.2871	2.4991	0.0000	104.7644
Water						0.0000	0.0000		0.0000	0.0000	17.9911	25.7334	43.7244	0.0661	0.0396	57.1861
Total	1.1816	2.2074	27.3562	8.6000e-003	0.4498	0.0361	0.4859	0.1202	0.0358	0.1560	60.2781	1,014.0799	1,074.3580	2.7595	0.0606	1,161.3903

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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	0.9332	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Energy	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	108.6114	108.6114	0.0142	2.1000e-003	109.5925
Mobile	0.2063	0.2492	2.0301	4.3000e-003	0.4498	3.1700e-003	0.4530	0.1202	2.9600e-003	0.1231	0.0000	400.8349	400.8349	0.0252	0.0188	407.0744
Offroad	0.0397	1.9365	25.3037	4.1700e-003		0.0312	0.0312		0.0312	0.0312	0.0000	478.8921	478.8921	0.1549	0.0000	482.7641
Waste						0.0000	0.0000		0.0000	0.0000	42.2871	0.0000	42.2871	2.4991	0.0000	104.7644
Water						0.0000	0.0000		0.0000	0.0000	17.9911	25.7334	43.7244	0.0661	0.0396	57.1861
Total	1.1816	2.2074	27.3562	8.6000e-003	0.4498	0.0361	0.4859	0.1202	0.0358	0.1560	60.2781	1,014.0799	1,074.3580	2.7595	0.0606	1,161.3903

	ROG	NOx	CO	SO2	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	3/1/2022	4/30/2022	5	44	
2	Site Preparation	Site Preparation	4/1/2022	5/31/2022	5	43	

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3	Grading	Grading	5/1/2022	6/30/2022	5	44
4	Building Construction	Building Construction	6/1/2022	3/31/2023	5	218
5	Paving	Paving	1/1/2023	1/31/2023	5	22
6	Architectural Coating	Architectural Coating	2/21/2023	4/3/2023	5	30

Acres of Grading (Site Preparation Phase): 64.5

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 332,243; Non-Residential Outdoor: 110,748; Striped Parking Area: 12,521 (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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	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	1,075.00	10.80	7.30	28.00	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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	175.00	69.00	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	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1163	0.0000	0.1163	0.0176	0.0000	0.0176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0581	0.5658	0.4531	8.5000e-004		0.0273	0.0273		0.0254	0.0254	0.0000	74.7785	74.7785	0.0210	0.0000	75.3036
Total	0.0581	0.5658	0.4531	8.5000e-004	0.1163	0.0273	0.1436	0.0176	0.0254	0.0430	0.0000	74.7785	74.7785	0.0210	0.0000	75.3036

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-003	0.1256	0.0247	4.7000e-004	0.0127	1.1600e-003	0.0139	3.5000e-003	1.1100e-003	4.6100e-003	0.0000	46.6306	46.6306	1.5400e-003	7.3900e-003	48.8702
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	4.2100e-003	0.1263	0.0326	4.9000e-004	0.0153	1.1700e-003	0.0165	4.1900e-003	1.1200e-003	5.3200e-003	0.0000	48.7278	48.7278	1.6100e-003	7.4500e-003	50.9870

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					0.1163	0.0000	0.1163	0.0176	0.0000	0.0176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0203	0.4029	0.5428	8.5000e-004		0.0190	0.0190		0.0190	0.0190	0.0000	74.7784	74.7784	0.0210	0.0000	75.3035
Total	0.0203	0.4029	0.5428	8.5000e-004	0.1163	0.0190	0.1353	0.0176	0.0190	0.0366	0.0000	74.7784	74.7784	0.0210	0.0000	75.3035

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-003	0.1256	0.0247	4.7000e-004	0.0127	1.1600e-003	0.0139	3.5000e-003	1.1100e-003	4.6100e-003	0.0000	46.6306	46.6306	1.5400e-003	7.3900e-003	48.8702
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	4.2100e-003	0.1263	0.0326	4.9000e-004	0.0153	1.1700e-003	0.0165	4.1900e-003	1.1200e-003	5.3200e-003	0.0000	48.7278	48.7278	1.6100e-003	7.4500e-003	50.9870

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4226	0.0000	0.4226	0.2172	0.0000	0.2172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0682	0.7113	0.4235	8.2000e-004		0.0347	0.0347		0.0319	0.0319	0.0000	71.8947	71.8947	0.0233	0.0000	72.4760
Total	0.0682	0.7113	0.4235	8.2000e-004	0.4226	0.0347	0.4573	0.2172	0.0319	0.2491	0.0000	71.8947	71.8947	0.0233	0.0000	72.4760

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825
Total	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825

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					0.4226	0.0000	0.4226	0.2172	0.0000	0.2172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.4099	0.4936	8.2000e-004		0.0203	0.0203		0.0203	0.0203	0.0000	71.8946	71.8946	0.0233	0.0000	72.4759
Total	0.0200	0.4099	0.4936	8.2000e-004	0.4226	0.0203	0.4430	0.2172	0.0203	0.2375	0.0000	71.8946	71.8946	0.0233	0.0000	72.4759

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825
Total	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4588	0.3360	6.5000e-004		0.0207	0.0207		0.0190	0.0190	0.0000	57.3205	57.3205	0.0185	0.0000	57.7840
Total	0.0429	0.4588	0.3360	6.5000e-004	0.1558	0.0207	0.1765	0.0753	0.0190	0.0944	0.0000	57.3205	57.3205	0.0185	0.0000	57.7840

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169

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					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.3265	0.4178	6.5000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	57.3204	57.3204	0.0185	0.0000	57.7839
Total	0.0160	0.3265	0.4178	6.5000e-004	0.1558	0.0166	0.1724	0.0753	0.0166	0.0920	0.0000	57.3204	57.3204	0.0185	0.0000	57.7839

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3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1305	1.1946	1.2518	2.0600e-003		0.0619	0.0619		0.0582	0.0582	0.0000	177.2698	177.2698	0.0425	0.0000	178.3315
Total	0.1305	1.1946	1.2518	2.0600e-003		0.0619	0.0619		0.0582	0.0582	0.0000	177.2698	177.2698	0.0425	0.0000	178.3315

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.2950	0.0859	1.1200e-003	0.0346	3.0400e-003	0.0377	0.0100	2.9000e-003	0.0129	0.0000	108.7121	108.7121	2.3600e-003	0.0161	113.5748
Worker	0.0368	0.0265	0.3202	9.2000e-004	0.1058	5.7000e-004	0.1064	0.0281	5.3000e-004	0.0287	0.0000	85.0795	85.0795	2.6400e-003	2.4500e-003	85.8770
Total	0.0481	0.3214	0.4061	2.0400e-003	0.1404	3.6100e-003	0.1440	0.0382	3.4300e-003	0.0416	0.0000	193.7916	193.7916	5.0000e-003	0.0186	199.4517

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	0.0516	1.0883	1.3673	2.0600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	177.2696	177.2696	0.0425	0.0000	178.3313
Total	0.0516	1.0883	1.3673	2.0600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	177.2696	177.2696	0.0425	0.0000	178.3313

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.2950	0.0859	1.1200e-003	0.0346	3.0400e-003	0.0377	0.0100	2.9000e-003	0.0129	0.0000	108.7121	108.7121	2.3600e-003	0.0161	113.5748
Worker	0.0368	0.0265	0.3202	9.2000e-004	0.1058	5.7000e-004	0.1064	0.0281	5.3000e-004	0.0287	0.0000	85.0795	85.0795	2.6400e-003	2.4500e-003	85.8770
Total	0.0481	0.3214	0.4061	2.0400e-003	0.1404	3.6100e-003	0.1440	0.0382	3.4300e-003	0.0416	0.0000	193.7916	193.7916	5.0000e-003	0.0186	199.4517

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0511	0.4675	0.5279	8.8000e-004		0.0227	0.0227		0.0214	0.0214	0.0000	75.3365	75.3365	0.0179	0.0000	75.7846
Total	0.0511	0.4675	0.5279	8.8000e-004		0.0227	0.0227		0.0214	0.0214	0.0000	75.3365	75.3365	0.0179	0.0000	75.7846

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0997	0.0312	4.5000e-004	0.0147	5.8000e-004	0.0153	4.2600e-003	5.6000e-004	4.8100e-003	0.0000	44.2659	44.2659	9.0000e-004	6.5500e-003	46.2399
Worker	0.0146	9.9600e-003	0.1261	3.8000e-004	0.0449	2.3000e-004	0.0452	0.0120	2.1000e-004	0.0122	0.0000	35.2226	35.2226	1.0100e-003	9.7000e-004	35.5360
Total	0.0170	0.1097	0.1573	8.3000e-004	0.0597	8.1000e-004	0.0605	0.0162	7.7000e-004	0.0170	0.0000	79.4886	79.4886	1.9100e-003	7.5200e-003	81.7759

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	0.0219	0.4624	0.5809	8.8000e-004		0.0294	0.0294		0.0294	0.0294	0.0000	75.3365	75.3365	0.0179	0.0000	75.7845
Total	0.0219	0.4624	0.5809	8.8000e-004		0.0294	0.0294		0.0294	0.0294	0.0000	75.3365	75.3365	0.0179	0.0000	75.7845

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0997	0.0312	4.5000e-004	0.0147	5.8000e-004	0.0153	4.2600e-003	5.6000e-004	4.8100e-003	0.0000	44.2659	44.2659	9.0000e-004	6.5500e-003	46.2399
Worker	0.0146	9.9600e-003	0.1261	3.8000e-004	0.0449	2.3000e-004	0.0452	0.0120	2.1000e-004	0.0122	0.0000	35.2226	35.2226	1.0100e-003	9.7000e-004	35.5360
Total	0.0170	0.1097	0.1573	8.3000e-004	0.0597	8.1000e-004	0.0605	0.0162	7.7000e-004	0.0170	0.0000	79.4886	79.4886	1.9100e-003	7.5200e-003	81.7759

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1121	0.1604	2.5000e-004		5.6100e-003	5.6100e-003		5.1600e-003	5.1600e-003	0.0000	22.0296	22.0296	7.1200e-003	0.0000	22.2077
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0114	0.1121	0.1604	2.5000e-004		5.6100e-003	5.6100e-003		5.1600e-003	5.1600e-003	0.0000	22.0296	22.0296	7.1200e-003	0.0000	22.2077

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3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309
Total	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309

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	6.1700e-003	0.1243	0.1903	2.5000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	22.0295	22.0295	7.1200e-003	0.0000	22.2077
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.1700e-003	0.1243	0.1903	2.5000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	22.0295	22.0295	7.1200e-003	0.0000	22.2077

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3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309
Total	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.5452	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802
Total	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802

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	0.5423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9000e-004	0.0204	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.5432	0.0204	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802
Total	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802

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 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	0.2063	0.2492	2.0301	4.3000e-003	0.4498	3.1700e-003	0.4530	0.1202	2.9600e-003	0.1231	0.0000	400.8349	400.8349	0.0252	0.0188	407.0744
Unmitigated	0.2063	0.2492	2.0301	4.3000e-003	0.4498	3.1700e-003	0.4530	0.1202	2.9600e-003	0.1231	0.0000	400.8349	400.8349	0.0252	0.0188	407.0744

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	74.02	16.80	5.32	133,907	133,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	372.19	372.19	372.19	1,086,601	1,086,601
Total	446.21	388.98	377.51	1,220,508	1,220,508

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Other Asphalt Surfaces	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Other Non-Asphalt Surfaces	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Parking Lot	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Unrefrigerated Warehouse-No Rail	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

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	85.0931	85.0931	0.0138	1.6700e-003	85.9345
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	85.0931	85.0931	0.0138	1.6700e-003	85.9345
NaturalGas Mitigated	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580
NaturalGas Unmitigated	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	145540	7.8000e-004	7.1300e-003	5.9900e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7666	7.7666	1.5000e-004	1.4000e-004	7.8127
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	295175	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7517	15.7517	3.0000e-004	2.9000e-004	15.8453
Total		2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	145540	7.8000e-004	7.1300e-003	5.9900e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7666	7.7666	1.5000e-004	1.4000e-004	7.8127
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	295175	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7517	15.7517	3.0000e-004	2.9000e-004	15.8453
Total		2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580

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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			
General Office Building	91504	8.4663	1.3700e-003	1.7000e-004	8.5500
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	23940	2.2150	3.6000e-004	4.0000e-005	2.2369
Unrefrigerated Warehouse-No Rail	804245	74.4118	0.0120	1.4600e-003	75.1476
Total		85.0931	0.0138	1.6700e-003	85.9345

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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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	91504	8.4663	1.3700e-003	1.7000e-004	8.5500
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	23940	2.2150	3.6000e-004	4.0000e-005	2.2369
Unrefrigerated Warehouse-No Rail	804245	74.4118	0.0120	1.4600e-003	75.1476
Total		85.0931	0.0138	1.6700e-003	85.9345

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9332	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Unmitigated	0.9332	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8785					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Total	0.9332	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0542					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8785					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9000e-004	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003
Total	0.9332	4.0000e-005	4.2100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7200e-003

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	43.7244	0.0661	0.0396	57.1861
Unmitigated	43.7244	0.0661	0.0396	57.1861

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.38632 / 0.849682	1.4597	1.8400e-003	1.0900e-003	1.8293
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	49.4644 / 0	42.2647	0.0642	0.0385	55.3568
Total		43.7244	0.0661	0.0396	57.1861

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.38632 / 0.849682	1.4597	1.8400e-003	1.0900e-003	1.8293
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	49.4644 / 0	42.2647	0.0642	0.0385	55.3568
Total		43.7244	0.0661	0.0396	57.1861

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.2871	2.4991	0.0000	104.7644
Unmitigated	42.2871	2.4991	0.0000	104.7644

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.25	1.4717	0.0870	0.0000	3.6460
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	201.07	40.8154	2.4121	0.0000	101.1184
Total		42.2871	2.4991	0.0000	104.7645

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.25	1.4717	0.0870	0.0000	3.6460
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	201.07	40.8154	2.4121	0.0000	101.1184
Total		42.2871	2.4991	0.0000	104.7645

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	21	8.00	260	89	0.20	CNG

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UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0397	1.9365	25.3037	4.1700e-003		0.0312	0.0312		0.0312	0.0312	0.0000	478.8921	478.8921	0.1549	0.0000	482.7641
Total	0.0397	1.9365	25.3037	4.1700e-003		0.0312	0.0312		0.0312	0.0312	0.0000	478.8921	478.8921	0.1549	0.0000	482.7641

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

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

1919 Williams Street Warehouse Project - AQ

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.60	1000sqft	0.00	7,600.00	0
Unrefrigerated Warehouse-No Rail	213.90	1000sqft	9.80	213,895.00	0
Other Asphalt Surfaces	1.76	Acre	0.00	76,665.60	0
Other Non-Asphalt Surfaces	63.62	1000sqft	0.00	63,623.00	0
Parking Lot	171.00	Space	0.00	68,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
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 - Based on applicant-provided information. Other Non-Asphalt Surfaces = 34,283 sf landscaping + 29,340 sf trailer parking. Other Asphalt Surfaces = Total site ac - (Building, Landscape, Parking Lot, Other Non-Asphalt Surfaces ac).

Construction Phase - Based on applicant-provided information.

Trips and VMT - Based on applicant-provided information.

Demolition -

Grading -

Architectural Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

Area Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

Water And Wastewater - Project will not include septic tanks. Wastewater will be treated at City of San Leandro Water Pollution Control Plant, which does not use facultative lagoons.

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 engines as a best management practice

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Based on prior experience with similar warehouse projects, 1 natural gas forklift per 10,000 sf was assumed to operate on project site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	218.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	30.00
tblLandUse	LandUseSquareFeet	213,900.00	213,895.00
tblLandUse	LandUseSquareFeet	63,620.00	63,623.00
tblLandUse	LotAcreage	0.17	0.00
tblLandUse	LotAcreage	4.91	9.80
tblLandUse	LotAcreage	1.76	0.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	1.54	0.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	21.00
tblSolidWaste	SolidWasteGenerationRate	7.07	7.25
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	VendorTripNumber	71.00	69.00
tblTripsAndVMT	WorkerTripNumber	180.00	175.00
tblTripsAndVMT	WorkerTripNumber	36.00	35.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,350,776.48	1,386,323.23
tblWater	OutdoorWaterUseRate	827,895.26	849,681.98
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.0560	64.6812	42.2373	0.1006	27.0107	2.9094	29.5655	13.5991	2.6906	15.9496	0.0000	9,998.9087	9,998.9087	2.3293	0.3772	10,169.5550
2023	38.5751	28.0724	36.1557	0.0763	2.1924	1.2357	3.2638	0.5921	1.1521	1.7007	0.0000	7,552.0691	7,552.0691	1.3920	0.2642	7,664.4095
Maximum	38.5751	64.6812	42.2373	0.1006	27.0107	2.9094	29.5655	13.5991	2.6906	15.9496	0.0000	9,998.9087	9,998.9087	2.3293	0.3772	10,169.5550

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1121	43.2568	49.5793	0.1006	27.0107	1.8630	28.7138	13.5991	1.8606	15.3021	0.0000	9,998.9087	9,998.9087	2.3293	0.3772	10,169.5550
2023	37.5440	29.0172	40.4969	0.0763	2.1924	1.5386	3.5667	0.5921	1.5372	2.0858	0.0000	7,552.0691	7,552.0691	1.3920	0.2642	7,664.4095
Maximum	37.5440	43.2568	49.5793	0.1006	27.0107	1.8630	28.7138	13.5991	1.8606	15.3021	0.0000	9,998.9087	9,998.9087	2.3293	0.3772	10,169.5550

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	11.15	22.08	-14.90	0.00	0.00	17.93	1.67	0.00	11.58	1.49	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Energy	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958
Mobile	1.1841	1.5032	12.2778	0.0244	2.6592	0.0181	2.6773	0.7082	0.0169	0.7251		2,501.5382	2,501.5382	0.1672	0.1230	2,542.3669
Offroad	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154
Total	6.6183	16.5181	207.0682	0.0572	2.6592	0.2675	2.9267	0.7082	0.2663	0.9745	0.0000	6,704.3728	6,704.3728	1.4835	0.1256	6,778.8849

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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	lb/day										lb/day					
Area	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Energy	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958
Mobile	1.1841	1.5032	12.2778	0.0244	2.6592	0.0181	2.6773	0.7082	0.0169	0.7251		2,501.5382	2,501.5382	0.1672	0.1230	2,542.3669
Offroad	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154
Total	6.6183	16.5181	207.0682	0.0572	2.6592	0.2675	2.9267	0.7082	0.2663	0.9745	0.0000	6,704.3728	6,704.3728	1.4835	0.1256	6,778.8849

	ROG	NOx	CO	SO2	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	3/1/2022	4/30/2022	5	44	
2	Site Preparation	Site Preparation	4/1/2022	5/31/2022	5	43	
3	Grading	Grading	5/1/2022	6/30/2022	5	44	
4	Building Construction	Building Construction	6/1/2022	3/31/2023	5	218	

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

5	Paving	Paving	1/1/2023	1/31/2023	5	22
6	Architectural Coating	Architectural Coating	2/21/2023	4/3/2023	5	30

Acres of Grading (Site Preparation Phase): 64.5

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 332,243; Non-Residential Outdoor: 110,748; Striped Parking Area: 12,521 (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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	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
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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

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	1,075.00	10.80	7.30	28.00	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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	175.00	69.00	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	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.2862	0.0000	5.2862	0.8004	0.0000	0.8004			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	5.2862	1.2427	6.5289	0.8004	1.1553	1.9556		3,746.7812	3,746.7812	1.0524		3,773.0920

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1486	5.8068	1.1317	0.0215	0.5980	0.0527	0.6507	0.1639	0.0504	0.2143		2,336.7469	2,336.7469	0.0771	0.3701	2,448.9755
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	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827
Total	0.1932	5.8393	1.5016	0.0225	0.7212	0.0534	0.7746	0.1966	0.0510	0.2476		2,440.9827	2,440.9827	0.0806	0.3734	2,554.2582

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					5.2862	0.0000	5.2862	0.8004	0.0000	0.8004			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.9246	18.3130	24.6739	0.0388	5.2862	0.8627	6.1490	0.8004	0.8627	1.6631	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1486	5.8068	1.1317	0.0215	0.5980	0.0527	0.6507	0.1639	0.0504	0.2143		2,336.7469	2,336.7469	0.0771	0.3701	2,448.9755
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	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827
Total	0.1932	5.8393	1.5016	0.0225	0.7212	0.0534	0.7746	0.1966	0.0510	0.2476		2,440.9827	2,440.9827	0.0806	0.3734	2,554.2582

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392
Total	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.9312	19.0656	22.9600	0.0380	19.6570	0.9462	20.6032	10.1025	0.9462	11.0486	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392
Total	0.0535	0.0390	0.4438	1.2300e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		125.0830	125.0830	4.1600e-003	3.8700e-003	126.3392

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.0464	2,872.0464	0.9289		2,895.2684

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827
Total	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827

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	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	0.7263	14.8397	18.9906	0.0297	7.0826	0.7555	7.8381	3.4247	0.7555	4.1803	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827
Total	0.0446	0.0325	0.3699	1.0200e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		104.2358	104.2358	3.4600e-003	3.2200e-003	105.2827

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1472	3.9256	1.1441	0.0146	0.4673	0.0398	0.5071	0.1345	0.0380	0.1726		1,566.8367	1,566.8367	0.0340	0.2324	1,636.9472
Worker	0.5200	0.3789	4.3151	0.0120	1.4376	7.5100e-003	1.4451	0.3813	6.9200e-003	0.3882		1,216.0844	1,216.0844	0.0404	0.0376	1,228.2979
Total	0.6673	4.3045	5.4592	0.0266	1.9049	0.0473	1.9522	0.5158	0.0450	0.5608		2,782.9211	2,782.9211	0.0744	0.2700	2,865.2451

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1472	3.9256	1.1441	0.0146	0.4673	0.0398	0.5071	0.1345	0.0380	0.1726		1,566.8367	1,566.8367	0.0340	0.2324	1,636.9472
Worker	0.5200	0.3789	4.3151	0.0120	1.4376	7.5100e-003	1.4451	0.3813	6.9200e-003	0.3882		1,216.0844	1,216.0844	0.0404	0.0376	1,228.2979
Total	0.6673	4.3045	5.4592	0.0266	1.9049	0.0473	1.9522	0.5158	0.0450	0.5608		2,782.9211	2,782.9211	0.0744	0.2700	2,865.2451

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0725	3.1316	0.9774	0.0140	0.4673	0.0180	0.4853	0.1345	0.0172	0.1517		1,502.627 3	1,502.627 3	0.0305	0.2224	1,569.660 3
Worker	0.4855	0.3355	4.0067	0.0116	1.4376	7.1300e-003	1.4447	0.3813	6.5600e-003	0.3879		1,185.070 3	1,185.070 3	0.0366	0.0348	1,196.364 1
Total	0.5580	3.4671	4.9841	0.0256	1.9049	0.0251	1.9300	0.5158	0.0238	0.5396		2,687.697 6	2,687.697 6	0.0671	0.2572	2,766.024 4

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0725	3.1316	0.9774	0.0140	0.4673	0.0180	0.4853	0.1345	0.0172	0.1517		1,502.627 3	1,502.627 3	0.0305	0.2224	1,569.660 3
Worker	0.4855	0.3355	4.0067	0.0116	1.4376	7.1300e-003	1.4447	0.3813	6.5600e-003	0.3879		1,185.070 3	1,185.070 3	0.0366	0.0348	1,196.364 1
Total	0.5580	3.4671	4.9841	0.0256	1.9049	0.0251	1.9300	0.5158	0.0238	0.5396		2,687.697 6	2,687.697 6	0.0671	0.2572	2,766.024 4

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
Total	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455

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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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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 - 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	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	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455
Total	0.0416	0.0288	0.3434	9.9000e-004	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		101.5775	101.5775	3.1300e-003	2.9900e-003	102.5455

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	36.3472	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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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 - 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	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	0.0971	0.0671	0.8013	2.3200e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		237.0141	237.0141	7.3100e-003	6.9700e-003	239.2728
Total	0.0971	0.0671	0.8013	2.3200e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		237.0141	237.0141	7.3100e-003	6.9700e-003	239.2728

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	36.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
Total	36.2150	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690

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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 - 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	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	0.0971	0.0671	0.8013	2.3200e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		237.0141	237.0141	7.3100e-003	6.9700e-003	239.2728
Total	0.0971	0.0671	0.8013	2.3200e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		237.0141	237.0141	7.3100e-003	6.9700e-003	239.2728

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1841	1.5032	12.2778	0.0244	2.6592	0.0181	2.6773	0.7082	0.0169	0.7251		2,501,538 2	2,501,538 2	0.1672	0.1230	2,542.366 9
Unmitigated	1.1841	1.5032	12.2778	0.0244	2.6592	0.0181	2.6773	0.7082	0.0169	0.7251		2,501,538 2	2,501,538 2	0.1672	0.1230	2,542.366 9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	74.02	16.80	5.32	133,907	133,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	372.19	372.19	372.19	1,086,601	1,086,601
Total	446.21	388.98	377.51	1,220,508	1,220,508

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Other Asphalt Surfaces	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Other Non-Asphalt Surfaces	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Parking Lot	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Unrefrigerated Warehouse-No Rail	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958
NaturalGas Unmitigated	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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						
General Office Building	398.74	4.3000e-003	0.0391	0.0328	2.3000e-004		2.9700e-003	2.9700e-003		2.9700e-003	2.9700e-003			46.9106	46.9106	9.0000e-004	8.6000e-004	47.1893
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	808.699	8.7200e-003	0.0793	0.0666	4.8000e-004		6.0300e-003	6.0300e-003		6.0300e-003	6.0300e-003			95.1411	95.1411	1.8200e-003	1.7400e-003	95.7064
Total		0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003			142.0516	142.0516	2.7200e-003	2.6000e-003	142.8957

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Office Building	0.39874	4.3000e-003	0.0391	0.0328	2.3000e-004		2.9700e-003	2.9700e-003		2.9700e-003	2.9700e-003			46.9106	46.9106	9.0000e-004	8.6000e-004	47.1893
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.808699	8.7200e-003	0.0793	0.0666	4.8000e-004		6.0300e-003	6.0300e-003		6.0300e-003	6.0300e-003			95.1411	95.1411	1.8200e-003	1.7400e-003	95.7064
Total		0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003			142.0516	142.0516	2.7200e-003	2.6000e-003	142.8957

6.0 Area Detail

6.1 Mitigation Measures Area

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Unmitigated	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068

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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3300e-003	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Total	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068

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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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3300e-003	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Total	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068

7.0 Water Detail

7.1 Mitigation Measures Water

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
Forklifts	21	8.00	260	89	0.20	CNG

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154
Total	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154

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
----------------	--------

11.0 Vegetation

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Summer

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

1919 Williams Street Warehouse Project - AQ

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.60	1000sqft	0.00	7,600.00	0
Unrefrigerated Warehouse-No Rail	213.90	1000sqft	9.80	213,895.00	0
Other Asphalt Surfaces	1.76	Acre	0.00	76,665.60	0
Other Non-Asphalt Surfaces	63.62	1000sqft	0.00	63,623.00	0
Parking Lot	171.00	Space	0.00	68,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
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 - Based on applicant-provided information. Other Non-Asphalt Surfaces = 34,283 sf landscaping + 29,340 sf trailer parking. Other Asphalt Surfaces = Total site ac - (Building, Landscape, Parking Lot, Other Non-Asphalt Surfaces ac).

Construction Phase - Based on applicant-provided information.

Trips and VMT - Based on applicant-provided information.

Demolition -

Grading -

Architectural Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Summer

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

Area Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

Water And Wastewater - Project will not include septic tanks. Wastewater will be treated at City of San Leandro Water Pollution Control Plant, which does not use facultative lagoons.

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 engines as a best management practice

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Based on prior experience with similar warehouse projects, 1 natural gas forklift per 10,000 sf was assumed to operate on project site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	150	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	150	100
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	218.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	30.00
tblLandUse	LandUseSquareFeet	213,900.00	213,895.00
tblLandUse	LandUseSquareFeet	63,620.00	63,623.00
tblLandUse	LotAcreage	0.17	0.00
tblLandUse	LotAcreage	4.91	9.80
tblLandUse	LotAcreage	1.76	0.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	1.54	0.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Summer

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

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	21.00
tblSolidWaste	SolidWasteGenerationRate	7.07	7.25
tblTripsAndVMT	HaulingTripLength	20.00	28.00
tblTripsAndVMT	VendorTripNumber	71.00	69.00
tblTripsAndVMT	WorkerTripNumber	180.00	175.00
tblTripsAndVMT	WorkerTripNumber	36.00	35.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	1,350,776.48	1,386,323.23
tblWater	OutdoorWaterUseRate	827,895.26	849,681.98
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

1919 Williams Street Warehouse Project - AQ - 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					
2022	6.0565	64.3642	42.2631	0.1007	27.0107	2.9093	29.5655	13.5991	2.6905	15.9496	0.0000	10,015.90 32	10,015.90 32	2.3286	0.3762	10,186.22 04
2023	38.5631	27.8313	36.3153	0.0773	2.1924	1.2356	3.2637	0.5921	1.1521	1.7006	0.0000	7,648.080 5	7,648.080 5	1.3875	0.2581	7,758.659 0
Maximum	38.5631	64.3642	42.2631	0.1007	27.0107	2.9093	29.5655	13.5991	2.6905	15.9496	0.0000	10,015.90 32	10,015.90 32	2.3286	0.3762	10,186.22 04

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1029	42.9399	49.6052	0.1007	27.0107	1.8630	28.7138	13.5991	1.8606	15.3021	0.0000	10,015.90 32	10,015.90 32	2.3286	0.3762	10,186.22 04
2023	37.5320	28.7760	40.6565	0.0773	2.1924	1.5385	3.5667	0.5921	1.5371	2.0857	0.0000	7,648.080 5	7,648.080 5	1.3875	0.2581	7,758.659 0
Maximum	37.5320	42.9399	49.6052	0.1007	27.0107	1.8630	28.7138	13.5991	1.8606	15.3021	0.0000	10,015.90 32	10,015.90 32	2.3286	0.3762	10,186.22 04

1919 Williams Street Warehouse Project - AQ - 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	11.17	22.21	-14.87	0.00	0.00	17.94	1.67	0.00	11.58	1.49	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Energy	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958
Mobile	1.2955	1.3044	11.6611	0.0258	2.6592	0.0181	2.6773	0.7082	0.0168	0.7251		2,651.1684	2,651.1684	0.1489	0.1122	2,688.3201
Offroad	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154
Total	6.7297	16.3193	206.4515	0.0586	2.6592	0.2675	2.9267	0.7082	0.2663	0.9745	0.0000	6,854.0029	6,854.0029	1.4652	0.1148	6,924.8381

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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	lb/day										lb/day					
Area	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Energy	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958
Mobile	1.2955	1.3044	11.6611	0.0258	2.6592	0.0181	2.6773	0.7082	0.0168	0.7251		2,651.1684	2,651.1684	0.1489	0.1122	2,688.3201
Offroad	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154
Total	6.7297	16.3193	206.4515	0.0586	2.6592	0.2675	2.9267	0.7082	0.2663	0.9745	0.0000	6,854.0029	6,854.0029	1.4652	0.1148	6,924.8381

	ROG	NOx	CO	SO2	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	3/1/2022	4/30/2022	5	44	
2	Site Preparation	Site Preparation	4/1/2022	5/31/2022	5	43	
3	Grading	Grading	5/1/2022	6/30/2022	5	44	
4	Building Construction	Building Construction	6/1/2022	3/31/2023	5	218	

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5	Paving	Paving	1/1/2023	1/31/2023	5	22
6	Architectural Coating	Architectural Coating	2/21/2023	4/3/2023	5	30

Acres of Grading (Site Preparation Phase): 64.5

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 332,243; Non-Residential Outdoor: 110,748; Striped Parking Area: 12,521 (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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	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
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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

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	1,075.00	10.80	7.30	28.00	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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	175.00	69.00	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	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.2862	0.0000	5.2862	0.8004	0.0000	0.8004			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	5.2862	1.2427	6.5289	0.8004	1.1553	1.9556		3,746.7812	3,746.7812	1.0524		3,773.0920

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1512	5.5034	1.1182	0.0215	0.5980	0.0527	0.6506	0.1639	0.0504	0.2143		2,336.1994	2,336.1994	0.0773	0.3700	2,448.3994
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	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
Total	0.1948	5.5297	1.5060	0.0226	0.7212	0.0533	0.7745	0.1966	0.0510	0.2475		2,448.4089	2,448.4089	0.0804	0.3728	2,561.5192

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					5.2862	0.0000	5.2862	0.8004	0.0000	0.8004			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.9246	18.3130	24.6739	0.0388	5.2862	0.8627	6.1490	0.8004	0.8627	1.6631	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1512	5.5034	1.1182	0.0215	0.5980	0.0527	0.6506	0.1639	0.0504	0.2143		2,336.1994	2,336.1994	0.0773	0.3700	2,448.3994
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	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
Total	0.1948	5.5297	1.5060	0.0226	0.7212	0.0533	0.7745	0.1966	0.0510	0.2475		2,448.4089	2,448.4089	0.0804	0.3728	2,561.5192

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	3.1701	33.0835	19.6978	0.0380	19.6570	1.6126	21.2696	10.1025	1.4836	11.5860		3,686.0619	3,686.0619	1.1922		3,715.8655

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437
Total	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437

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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	0.9312	19.0656	22.9600	0.0380	19.6570	0.9462	20.6032	10.1025	0.9462	11.0486	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437
Total	0.0524	0.0316	0.4653	1.3200e-003	0.1479	7.7000e-004	0.1486	0.0392	7.1000e-004	0.0399		134.6513	134.6513	3.6700e-003	3.3600e-003	135.7437

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	7.0826	0.9409	8.0234	3.4247	0.8656	4.2903		2,872.0464	2,872.0464	0.9289		2,895.2684

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
Total	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197

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	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	0.7263	14.8397	18.9906	0.0297	7.0826	0.7555	7.8381	3.4247	0.7555	4.1803	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197
Total	0.0436	0.0263	0.3878	1.1000e-003	0.1232	6.4000e-004	0.1239	0.0327	5.9000e-004	0.0333		112.2095	112.2095	3.0600e-003	2.8000e-003	113.1197

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1489	3.7222	1.1056	0.0146	0.4673	0.0396	0.5069	0.1345	0.0379	0.1725		1,566.2023	1,566.2023	0.0341	0.2321	1,636.2117
Worker	0.5091	0.3070	4.5240	0.0129	1.4376	7.5100e-003	1.4451	0.3813	6.9200e-003	0.3882		1,309.1102	1,309.1102	0.0357	0.0326	1,319.7300
Total	0.6579	4.0292	5.6296	0.0275	1.9049	0.0472	1.9520	0.5158	0.0448	0.5607		2,875.3125	2,875.3125	0.0698	0.2647	2,955.9417

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.1489	3.7222	1.1056	0.0146	0.4673	0.0396	0.5069	0.1345	0.0379	0.1725		1,566.2023	1,566.2023	0.0341	0.2321	1,636.2117
Worker	0.5091	0.3070	4.5240	0.0129	1.4376	7.5100e-003	1.4451	0.3813	6.9200e-003	0.3882		1,309.1102	1,309.1102	0.0357	0.0326	1,319.7300
Total	0.6579	4.0292	5.6296	0.0275	1.9049	0.0472	1.9520	0.5158	0.0448	0.5607		2,875.3125	2,875.3125	0.0698	0.2647	2,955.9417

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0751	2.9595	0.9451	0.0140	0.4673	0.0179	0.4852	0.1345	0.0171	0.1517		1,500.481 1	1,500.481 1	0.0307	0.2218	1,567.350 6
Worker	0.4734	0.2719	4.1834	0.0125	1.4376	7.1300e-003	1.4447	0.3813	6.5600e-003	0.3879		1,275.478 6	1,275.478 6	0.0322	0.0303	1,285.300 2
Total	0.5484	3.2314	5.1285	0.0264	1.9049	0.0251	1.9299	0.5158	0.0237	0.5396		2,775.959 7	2,775.959 7	0.0629	0.2521	2,852.650 8

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	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

1919 Williams Street Warehouse Project - AQ - 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 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	0.0751	2.9595	0.9451	0.0140	0.4673	0.0179	0.4852	0.1345	0.0171	0.1517		1,500.481 1	1,500.481 1	0.0307	0.2218	1,567.350 6
Worker	0.4734	0.2719	4.1834	0.0125	1.4376	7.1300e-003	1.4447	0.3813	6.5600e-003	0.3879		1,275.478 6	1,275.478 6	0.0322	0.0303	1,285.300 2
Total	0.5484	3.2314	5.1285	0.0264	1.9049	0.0251	1.9299	0.5158	0.0237	0.5396		2,775.959 7	2,775.959 7	0.0629	0.2521	2,852.650 8

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.584 1	2,207.584 1	0.7140		2,225.433 6

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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 - 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	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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
Total	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686

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	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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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 - 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	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	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686
Total	0.0406	0.0233	0.3586	1.0700e-003	0.1232	6.1000e-004	0.1238	0.0327	5.6000e-004	0.0333		109.3267	109.3267	2.7600e-003	2.5900e-003	110.1686

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	36.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	36.3472	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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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 - 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	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	0.0947	0.0544	0.8367	2.4900e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		255.0957	255.0957	6.4300e-003	6.0500e-003	257.0600
Total	0.0947	0.0544	0.8367	2.4900e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		255.0957	255.0957	6.4300e-003	6.0500e-003	257.0600

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	36.1556					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690
Total	36.2150	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0168		281.8690

1919 Williams Street Warehouse Project - AQ - 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 - 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	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	0.0947	0.0544	0.8367	2.4900e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		255.0957	255.0957	6.4300e-003	6.0500e-003	257.0600
Total	0.0947	0.0544	0.8367	2.4900e-003	0.2875	1.4300e-003	0.2889	0.0763	1.3100e-003	0.0776		255.0957	255.0957	6.4300e-003	6.0500e-003	257.0600

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

1919 Williams Street Warehouse Project - AQ - 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
Category	lb/day										lb/day					
Mitigated	1.2955	1.3044	11.6611	0.0258	2.6592	0.0181	2.6773	0.7082	0.0168	0.7251		2,651,168 4	2,651,168 4	0.1489	0.1122	2,688,320 1
Unmitigated	1.2955	1.3044	11.6611	0.0258	2.6592	0.0181	2.6773	0.7082	0.0168	0.7251		2,651,168 4	2,651,168 4	0.1489	0.1122	2,688,320 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	74.02	16.80	5.32	133,907	133,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	372.19	372.19	372.19	1,086,601	1,086,601
Total	446.21	388.98	377.51	1,220,508	1,220,508

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Other Asphalt Surfaces	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Other Non-Asphalt Surfaces	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Parking Lot	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928
Unrefrigerated Warehouse-No Rail	0.552821	0.058334	0.189005	0.121481	0.023262	0.005577	0.010166	0.007476	0.001000	0.000579	0.026545	0.000826	0.002928

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958
NaturalGas Unmitigated	0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003		142.0516	142.0516	2.7200e-003	2.6000e-003	142.8958

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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

Unmitigated

	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						
General Office Building	398.74	4.3000e-003	0.0391	0.0328	2.3000e-004		2.9700e-003	2.9700e-003		2.9700e-003	2.9700e-003			46.9106	46.9106	9.0000e-004	8.6000e-004	47.1893
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	808.699	8.7200e-003	0.0793	0.0666	4.8000e-004		6.0300e-003	6.0300e-003		6.0300e-003	6.0300e-003			95.1411	95.1411	1.8200e-003	1.7400e-003	95.7064
Total		0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003			142.0516	142.0516	2.7200e-003	2.6000e-003	142.8957

1919 Williams Street Warehouse Project - AQ - Bay Area AQMD Air District, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
General Office Building	0.39874	4.3000e-003	0.0391	0.0328	2.3000e-004		2.9700e-003	2.9700e-003		2.9700e-003	2.9700e-003			46.9106	46.9106	9.0000e-004	8.6000e-004	47.1893
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.808699	8.7200e-003	0.0793	0.0666	4.8000e-004		6.0300e-003	6.0300e-003		6.0300e-003	6.0300e-003			95.1411	95.1411	1.8200e-003	1.7400e-003	95.7064
Total		0.0130	0.1184	0.0994	7.1000e-004		9.0000e-003	9.0000e-003		9.0000e-003	9.0000e-003			142.0516	142.0516	2.7200e-003	2.6000e-003	142.8957

6.0 Area Detail

6.1 Mitigation Measures Area

1919 Williams Street Warehouse Project - AQ - 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
Category	lb/day										lb/day					
Mitigated	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Unmitigated	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068

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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3300e-003	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Total	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068

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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	0.2972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8139					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.3300e-003	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068
Total	5.1154	4.3000e-004	0.0467	0.0000		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		0.1002	0.1002	2.6000e-004		0.1068

7.0 Water Detail

7.1 Mitigation Measures Water

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
Forklifts	21	8.00	260	89	0.20	CNG

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

UnMitigated/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
Equipment Type	lb/day										lb/day					
Forklifts	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154
Total	0.3057	14.8961	194.6442	0.0321		0.2403	0.2403		0.2403	0.2403	0.0000	4,060.6828	4,060.6828	1.3133		4,093.5154

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

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	7.60	1000sqft	0.00	7,600.00	0
Unrefrigerated Warehouse-No Rail	213.90	1000sqft	9.80	213,895.00	0
Other Asphalt Surfaces	1.76	Acre	0.00	76,665.60	0
Other Non-Asphalt Surfaces	63.62	1000sqft	0.00	63,623.00	0
Parking Lot	171.00	Space	0.00	68,400.00	0

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	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 - Based on applicant-provided information. Other Non-Asphalt Surfaces = 34,283 sf landscaping + 29,340 sf trailer parking. Other Asphalt Surfaces = Total site ac - (Building, Landscape, Parking Lot, Other Non-Asphalt Surfaces ac).

Construction Phase - Based on applicant-provided information.

Trips and VMT - Based on applicant-provided information.

Demolition -

Grading -

Architectural Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

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

Area Coating - Compliance with BAAQMD Regulation 8, Rule 3, flat architectural coating and traffic marking coating

Water And Wastewater - Project will not include septic tanks. Wastewater will be treated at City of San Leandro Water Pollution Control Plant, which does not use facultative lagoons.

Solid Waste -

Construction Off-road Equipment Mitigation - Tier 3 engines as a best management practice

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Energy Mitigation -

Water Mitigation -

Operational Off-Road Equipment - Based on prior experience with similar warehouse projects, 1 natural gas forklift per 10,000 sf was assumed to operate on project site.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	10.00	43.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	230.00	218.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	30.00
tblLandUse	LandUseSquareFeet	213,900.00	213,895.00
tblLandUse	LandUseSquareFeet	63,620.00	63,623.00
tblLandUse	LotAcreage	0.17	0.00
tblLandUse	LotAcreage	4.91	9.80
tblLandUse	LotAcreage	1.76	0.00
tblLandUse	LotAcreage	1.46	0.00
tblLandUse	LotAcreage	1.54	0.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	21.00
tblSolidWaste	SolidWasteGenerationRate	7.07	7.25
tblTripsAndVMT	HaulingTripLength	20.00	28.00

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tbITripsAndVMT	VendorTripNumber	71.00	69.00
tbITripsAndVMT	WorkerTripNumber	180.00	175.00
tbITripsAndVMT	WorkerTripNumber	36.00	35.00
tbWater	AerobicPercent	87.46	100.00
tbWater	AerobicPercent	87.46	100.00
tbWater	AerobicPercent	87.46	100.00
tbWater	AerobicPercent	87.46	100.00
tbWater	AerobicPercent	87.46	100.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	IndoorWaterUseRate	1,350,776.48	1,386,323.23
tbWater	OutdoorWaterUseRate	827,895.26	849,681.98
tbWater	SepticTankPercent	10.33	0.00
tbWater	SepticTankPercent	10.33	0.00
tbWater	SepticTankPercent	10.33	0.00
tbWater	SepticTankPercent	10.33	0.00
tbWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3539	3.3797	2.9202	6.9700e-003	0.8562	0.1494	1.0056	0.3540	0.1392	0.4932	0.0000	628.3395	628.3395	0.1120	0.0262	638.9332
2023	0.6264	0.7100	0.8882	2.0500e-003	0.0651	0.0303	0.0954	0.0177	0.0284	0.0461	0.0000	184.9577	184.9577	0.0273	7.6300e-003	187.9149
Maximum	0.6264	3.3797	2.9202	6.9700e-003	0.8562	0.1494	1.0056	0.3540	0.1392	0.4932	0.0000	628.3395	628.3395	0.1120	0.0262	638.9332

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1621	2.6767	3.2774	6.9700e-003	0.8562	0.1299	0.9860	0.3540	0.1297	0.4837	0.0000	628.3391	628.3391	0.1120	0.0262	638.9327
2023	0.5900	0.7178	0.9713	2.0500e-003	0.0651	0.0383	0.1034	0.0177	0.0383	0.0560	0.0000	184.9576	184.9576	0.0273	7.6300e-003	187.9148
Maximum	0.5900	2.6767	3.2774	6.9700e-003	0.8562	0.1299	0.9860	0.3540	0.1297	0.4837	0.0000	628.3391	628.3391	0.1120	0.0262	638.9327

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	23.27	17.00	-11.56	0.00	0.00	6.37	1.04	0.00	-0.21	-0.06	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	3-1-2022	5-31-2022	1.7908	1.1578
2	6-1-2022	8-31-2022	0.9682	0.8111
3	9-1-2022	11-30-2022	0.7215	0.6428
4	12-1-2022	2-28-2023	0.9010	0.8586
5	3-1-2023	5-31-2023	0.6804	0.6677
		Highest	1.7908	1.1578

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9988	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003
Energy	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	108.6114	108.6114	0.0142	2.1000e-003	109.5925
Mobile	0.1601	0.1817	1.6105	3.5500e-003	0.4500	2.3300e-003	0.4523	0.1202	2.1700e-003	0.1224	0.0000	346.2521	346.2521	0.0197	0.0152	351.2776
Offroad	0.0560	1.5592	27.4528	5.1400e-003		7.6300e-003	7.6300e-003		8.3000e-003	8.3000e-003	0.0000	576.9821	576.9821	0.0254	0.0000	577.6166
Waste						0.0000	0.0000		0.0000	0.0000	42.2871	0.0000	42.2871	2.4991	0.0000	104.7644
Water						0.0000	0.0000		0.0000	0.0000	17.9911	25.7334	43.7244	0.0661	0.0396	57.1861
Total	1.2172	1.7625	29.0856	8.8200e-003	0.4500	0.0116	0.4616	0.1202	0.0121	0.1323	60.2781	1,057.5870	1,117.8652	2.6245	0.0569	1,200.4460

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.9988	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003
Energy	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	108.6114	108.6114	0.0142	2.1000e-003	109.5925
Mobile	0.1601	0.1817	1.6105	3.5500e-003	0.4500	2.3300e-003	0.4523	0.1202	2.1700e-003	0.1224	0.0000	346.2521	346.2521	0.0197	0.0152	351.2776
Offroad	0.0560	1.5592	27.4528	5.1400e-003		7.6300e-003	7.6300e-003		8.3000e-003	8.3000e-003	0.0000	576.9821	576.9821	0.0254	0.0000	577.6166
Waste						0.0000	0.0000		0.0000	0.0000	42.2871	0.0000	42.2871	2.4991	0.0000	104.7644
Water						0.0000	0.0000		0.0000	0.0000	17.9911	25.7334	43.7244	0.0661	0.0396	57.1861
Total	1.2172	1.7625	29.0856	8.8200e-003	0.4500	0.0116	0.4616	0.1202	0.0121	0.1323	60.2781	1,057.5870	1,117.8652	2.6245	0.0569	1,200.4460

	ROG	NOx	CO	SO2	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	3/1/2022	4/30/2022	5	44	
2	Site Preparation	Site Preparation	4/1/2022	5/31/2022	5	43	

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3	Grading	Grading	5/1/2022	6/30/2022	5	44
4	Building Construction	Building Construction	6/1/2022	3/31/2023	5	218
5	Paving	Paving	1/1/2023	1/31/2023	5	22
6	Architectural Coating	Architectural Coating	2/21/2023	4/3/2023	5	30

Acres of Grading (Site Preparation Phase): 64.5

Acres of Grading (Grading Phase): 44

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 332,243; Non-Residential Outdoor: 110,748; Striped Parking Area: 12,521 (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	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	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	1,075.00	10.80	7.30	28.00	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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	175.00	69.00	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	35.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1163	0.0000	0.1163	0.0176	0.0000	0.0176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0581	0.5658	0.4531	8.5000e-004		0.0273	0.0273		0.0254	0.0254	0.0000	74.7785	74.7785	0.0210	0.0000	75.3036
Total	0.0581	0.5658	0.4531	8.5000e-004	0.1163	0.0273	0.1436	0.0176	0.0254	0.0430	0.0000	74.7785	74.7785	0.0210	0.0000	75.3036

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-003	0.1256	0.0247	4.7000e-004	0.0127	1.1600e-003	0.0139	3.5000e-003	1.1100e-003	4.6100e-003	0.0000	46.6306	46.6306	1.5400e-003	7.3900e-003	48.8702
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	4.2100e-003	0.1263	0.0326	4.9000e-004	0.0153	1.1700e-003	0.0165	4.1900e-003	1.1200e-003	5.3200e-003	0.0000	48.7278	48.7278	1.6100e-003	7.4500e-003	50.9870

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					0.1163	0.0000	0.1163	0.0176	0.0000	0.0176	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0203	0.4029	0.5428	8.5000e-004		0.0190	0.0190		0.0190	0.0190	0.0000	74.7784	74.7784	0.0210	0.0000	75.3035
Total	0.0203	0.4029	0.5428	8.5000e-004	0.1163	0.0190	0.1353	0.0176	0.0190	0.0366	0.0000	74.7784	74.7784	0.0210	0.0000	75.3035

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3000e-003	0.1256	0.0247	4.7000e-004	0.0127	1.1600e-003	0.0139	3.5000e-003	1.1100e-003	4.6100e-003	0.0000	46.6306	46.6306	1.5400e-003	7.3900e-003	48.8702
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	4.2100e-003	0.1263	0.0326	4.9000e-004	0.0153	1.1700e-003	0.0165	4.1900e-003	1.1200e-003	5.3200e-003	0.0000	48.7278	48.7278	1.6100e-003	7.4500e-003	50.9870

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4226	0.0000	0.4226	0.2172	0.0000	0.2172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0682	0.7113	0.4235	8.2000e-004		0.0347	0.0347		0.0319	0.0319	0.0000	71.8947	71.8947	0.0233	0.0000	72.4760
Total	0.0682	0.7113	0.4235	8.2000e-004	0.4226	0.0347	0.4573	0.2172	0.0319	0.2491	0.0000	71.8947	71.8947	0.0233	0.0000	72.4760

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825
Total	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825

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					0.4226	0.0000	0.4226	0.2172	0.0000	0.2172	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.4099	0.4936	8.2000e-004		0.0203	0.0203		0.0203	0.0203	0.0000	71.8946	71.8946	0.0233	0.0000	72.4759
Total	0.0200	0.4099	0.4936	8.2000e-004	0.4226	0.0203	0.4430	0.2172	0.0203	0.2375	0.0000	71.8946	71.8946	0.0233	0.0000	72.4759

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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 - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825
Total	1.0600e-003	7.7000e-004	9.2600e-003	3.0000e-005	3.0600e-003	2.0000e-005	3.0700e-003	8.1000e-004	2.0000e-005	8.3000e-004	0.0000	2.4594	2.4594	8.0000e-005	7.0000e-005	2.4825

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0429	0.4588	0.3360	6.5000e-004		0.0207	0.0207		0.0190	0.0190	0.0000	57.3205	57.3205	0.0185	0.0000	57.7840
Total	0.0429	0.4588	0.3360	6.5000e-004	0.1558	0.0207	0.1765	0.0753	0.0190	0.0944	0.0000	57.3205	57.3205	0.0185	0.0000	57.7840

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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 - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169

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					0.1558	0.0000	0.1558	0.0753	0.0000	0.0753	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.3265	0.4178	6.5000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	57.3204	57.3204	0.0185	0.0000	57.7839
Total	0.0160	0.3265	0.4178	6.5000e-004	0.1558	0.0166	0.1724	0.0753	0.0166	0.0920	0.0000	57.3204	57.3204	0.0185	0.0000	57.7839

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3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169
Total	9.1000e-004	6.5000e-004	7.8900e-003	2.0000e-005	2.6100e-003	1.0000e-005	2.6200e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0972	2.0972	7.0000e-005	6.0000e-005	2.1169

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1305	1.1946	1.2518	2.0600e-003		0.0619	0.0619		0.0582	0.0582	0.0000	177.2698	177.2698	0.0425	0.0000	178.3315
Total	0.1305	1.1946	1.2518	2.0600e-003		0.0619	0.0619		0.0582	0.0582	0.0000	177.2698	177.2698	0.0425	0.0000	178.3315

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.2950	0.0859	1.1200e-003	0.0346	3.0400e-003	0.0377	0.0100	2.9000e-003	0.0129	0.0000	108.7121	108.7121	2.3600e-003	0.0161	113.5748
Worker	0.0368	0.0265	0.3202	9.2000e-004	0.1058	5.7000e-004	0.1064	0.0281	5.3000e-004	0.0287	0.0000	85.0795	85.0795	2.6400e-003	2.4500e-003	85.8770
Total	0.0481	0.3214	0.4061	2.0400e-003	0.1404	3.6100e-003	0.1440	0.0382	3.4300e-003	0.0416	0.0000	193.7916	193.7916	5.0000e-003	0.0186	199.4517

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	0.0516	1.0883	1.3673	2.0600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	177.2696	177.2696	0.0425	0.0000	178.3313
Total	0.0516	1.0883	1.3673	2.0600e-003		0.0691	0.0691		0.0691	0.0691	0.0000	177.2696	177.2696	0.0425	0.0000	178.3313

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.2950	0.0859	1.1200e-003	0.0346	3.0400e-003	0.0377	0.0100	2.9000e-003	0.0129	0.0000	108.7121	108.7121	2.3600e-003	0.0161	113.5748
Worker	0.0368	0.0265	0.3202	9.2000e-004	0.1058	5.7000e-004	0.1064	0.0281	5.3000e-004	0.0287	0.0000	85.0795	85.0795	2.6400e-003	2.4500e-003	85.8770
Total	0.0481	0.3214	0.4061	2.0400e-003	0.1404	3.6100e-003	0.1440	0.0382	3.4300e-003	0.0416	0.0000	193.7916	193.7916	5.0000e-003	0.0186	199.4517

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0511	0.4675	0.5279	8.8000e-004		0.0227	0.0227		0.0214	0.0214	0.0000	75.3365	75.3365	0.0179	0.0000	75.7846
Total	0.0511	0.4675	0.5279	8.8000e-004		0.0227	0.0227		0.0214	0.0214	0.0000	75.3365	75.3365	0.0179	0.0000	75.7846

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3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0997	0.0312	4.5000e-004	0.0147	5.8000e-004	0.0153	4.2600e-003	5.6000e-004	4.8100e-003	0.0000	44.2659	44.2659	9.0000e-004	6.5500e-003	46.2399
Worker	0.0146	9.9600e-003	0.1261	3.8000e-004	0.0449	2.3000e-004	0.0452	0.0120	2.1000e-004	0.0122	0.0000	35.2226	35.2226	1.0100e-003	9.7000e-004	35.5360
Total	0.0170	0.1097	0.1573	8.3000e-004	0.0597	8.1000e-004	0.0605	0.0162	7.7000e-004	0.0170	0.0000	79.4886	79.4886	1.9100e-003	7.5200e-003	81.7759

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	0.0219	0.4624	0.5809	8.8000e-004		0.0294	0.0294		0.0294	0.0294	0.0000	75.3365	75.3365	0.0179	0.0000	75.7845
Total	0.0219	0.4624	0.5809	8.8000e-004		0.0294	0.0294		0.0294	0.0294	0.0000	75.3365	75.3365	0.0179	0.0000	75.7845

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3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0997	0.0312	4.5000e-004	0.0147	5.8000e-004	0.0153	4.2600e-003	5.6000e-004	4.8100e-003	0.0000	44.2659	44.2659	9.0000e-004	6.5500e-003	46.2399
Worker	0.0146	9.9600e-003	0.1261	3.8000e-004	0.0449	2.3000e-004	0.0452	0.0120	2.1000e-004	0.0122	0.0000	35.2226	35.2226	1.0100e-003	9.7000e-004	35.5360
Total	0.0170	0.1097	0.1573	8.3000e-004	0.0597	8.1000e-004	0.0605	0.0162	7.7000e-004	0.0170	0.0000	79.4886	79.4886	1.9100e-003	7.5200e-003	81.7759

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0114	0.1121	0.1604	2.5000e-004		5.6100e-003	5.6100e-003		5.1600e-003	5.1600e-003	0.0000	22.0296	22.0296	7.1200e-003	0.0000	22.2077
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0114	0.1121	0.1604	2.5000e-004		5.6100e-003	5.6100e-003		5.1600e-003	5.1600e-003	0.0000	22.0296	22.0296	7.1200e-003	0.0000	22.2077

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3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309
Total	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309

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	6.1700e-003	0.1243	0.1903	2.5000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	22.0295	22.0295	7.1200e-003	0.0000	22.2077
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.1700e-003	0.1243	0.1903	2.5000e-004		6.7000e-003	6.7000e-003		6.7000e-003	6.7000e-003	0.0000	22.0295	22.0295	7.1200e-003	0.0000	22.2077

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3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309
Total	4.2000e-004	2.9000e-004	3.6600e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.5000e-004	0.0000	1.0218	1.0218	3.0000e-005	3.0000e-005	1.0309

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.5452	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802
Total	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802

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	0.5423					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.9000e-004	0.0204	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
Total	0.5432	0.0204	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802
Total	1.3400e-003	9.2000e-004	0.0116	4.0000e-005	4.1500e-003	2.0000e-005	4.1700e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.2513	3.2513	9.0000e-005	9.0000e-005	3.2802

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1601	0.1817	1.6105	3.5500e-003	0.4500	2.3300e-003	0.4523	0.1202	2.1700e-003	0.1224	0.0000	346.2521	346.2521	0.0197	0.0152	351.2776
Unmitigated	0.1601	0.1817	1.6105	3.5500e-003	0.4500	2.3300e-003	0.4523	0.1202	2.1700e-003	0.1224	0.0000	346.2521	346.2521	0.0197	0.0152	351.2776

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	74.02	16.80	5.32	133,907	133,907
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	372.19	372.19	372.19	1,086,601	1,086,601
Total	446.21	388.98	377.51	1,220,508	1,220,508

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	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
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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

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	85.0931	85.0931	0.0138	1.6700e-003	85.9345
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	85.0931	85.0931	0.0138	1.6700e-003	85.9345
NaturalGas Mitigated	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580
NaturalGas Unmitigated	2.3800e-003	0.0216	0.0182	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	145540	7.8000e-004	7.1300e-003	5.9900e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7666	7.7666	1.5000e-004	1.4000e-004	7.8127
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	295175	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7517	15.7517	3.0000e-004	2.9000e-004	15.8453
Total		2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580

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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	tons/yr										MT/yr					
General Office Building	145540	7.8000e-004	7.1300e-003	5.9900e-003	4.0000e-005		5.4000e-004	5.4000e-004		5.4000e-004	5.4000e-004	0.0000	7.7666	7.7666	1.5000e-004	1.4000e-004	7.8127
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	295175	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7517	15.7517	3.0000e-004	2.9000e-004	15.8453
Total		2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.5182	23.5182	4.5000e-004	4.3000e-004	23.6580

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	91504	8.4663	1.3700e-003	1.7000e-004	8.5500
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	23940	2.2150	3.6000e-004	4.0000e-005	2.2369
Unrefrigerated Warehouse-No Rail	804245	74.4118	0.0120	1.4600e-003	75.1476
Total		85.0931	0.0138	1.6700e-003	85.9345

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	91504	8.4663	1.3700e-003	1.7000e-004	8.5500
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	23940	2.2150	3.6000e-004	4.0000e-005	2.2369
Unrefrigerated Warehouse-No Rail	804245	74.4118	0.0120	1.4600e-003	75.1476
Total		85.0931	0.0138	1.6700e-003	85.9345

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9988	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003
Unmitigated	0.9988	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8785					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8000e-004	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003
Total	0.9988	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8785					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.8000e-004	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003
Total	0.9988	4.0000e-005	4.1900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	8.1800e-003	8.1800e-003	2.0000e-005	0.0000	8.7100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	43.7244	0.0661	0.0396	57.1861
Unmitigated	43.7244	0.0661	0.0396	57.1861

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.38632 / 0.849682	1.4597	1.8400e-003	1.0900e-003	1.8293
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	49.4644 / 0	42.2647	0.0642	0.0385	55.3568
Total		43.7244	0.0661	0.0396	57.1861

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	1.38632 / 0.849682	1.4597	1.8400e-003	1.0900e-003	1.8293
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	49.4644 / 0	42.2647	0.0642	0.0385	55.3568
Total		43.7244	0.0661	0.0396	57.1861

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.2871	2.4991	0.0000	104.7644
Unmitigated	42.2871	2.4991	0.0000	104.7644

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.25	1.4717	0.0870	0.0000	3.6460
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	201.07	40.8154	2.4121	0.0000	101.1184
Total		42.2871	2.4991	0.0000	104.7645

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	7.25	1.4717	0.0870	0.0000	3.6460
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	201.07	40.8154	2.4121	0.0000	101.1184
Total		42.2871	2.4991	0.0000	104.7645

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	21	8.00	260	89	0.20	CNG

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

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Forklifts	0.0560	1.5592	27.4528	5.1400e-003		7.6300e-003	7.6300e-003		8.3000e-003	8.3000e-003	0.0000	576.9821	576.9821	0.0254	0.0000	577.6166
Total	0.0560	1.5592	27.4528	5.1400e-003		7.6300e-003	7.6300e-003		8.3000e-003	8.3000e-003	0.0000	576.9821	576.9821	0.0254	0.0000	577.6166

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