Appendix C
CalEEMod Data

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

1005 O'Brien Drive and 1320 Willow Road (Existing Uses)

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	90.63	1000sqft	2.08	90,631.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2022
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 - 1005 O'Brien Drive and 1320 Willow Road Project. 2022 operational year for existing uses.

Land Use - Existing uses includes 90,631 SF of buildings.

Construction Phase - Modeling operations only.

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

Off-road Equipment - Modeling operations only.

Trips and VMT - Updated trips per applicant. Haul distance approx 25 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis. TO BE UPDATED.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood or gas hearths/stoves.

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

Energy Use - Use of historical energy data.

Water And Wastewater - Default rates assumed.

Solid Waste - Default rates assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	9/28/2023	8/31/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

Date: 9/20/2022 10:04 AM

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	0.4013	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6200e-003	1.6200e-003	0.0000	0.0000	1.7300e-003
Energy	0.0115	0.1048	0.0880	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	236.1842	236.1842	0.0219	4.4900e-003	238.0695
Mobile	0.2793	0.2918	2.6917	5.5900e-003	0.5855	4.2100e-003	0.5897	0.1564	3.9200e-003	0.1603	0.0000	515.2650	515.2650	0.0346	0.0232	523.0576
Waste						0.0000	0.0000		0.0000	0.0000	17.1101	0.0000	17.1101	1.0112	0.0000	42.3896
Water						0.0000	0.0000		0.0000	0.0000	5.1103	11.2615	16.3718	0.5267	0.0126	33.2985

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

Total	**0.6922**	**0.3966**	**2.7805**	**6.2200e-003**	**0.5855**	**0.0122**	**0.5976**	**0.1564**	**0.0119**	**0.1682**	**22.2204**	**762.7124**	**784.9328**	**1.5944**	**0.0403**	**836.8169**

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	0.4013	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6200e-003	1.6200e-003	0.0000	0.0000	1.7300e-003
Energy	0.0115	0.1048	0.0880	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	236.1842	236.1842	0.0219	4.4900e-003	238.0695
Mobile	0.2793	0.2918	2.6917	5.5900e-003	0.5855	4.2100e-003	0.5897	0.1564	3.9200e-003	0.1603	0.0000	515.2650	515.2650	0.0346	0.0232	523.0576
Waste						0.0000	0.0000		0.0000	0.0000	17.1101	0.0000	17.1101	1.0112	0.0000	42.3896
Water						0.0000	0.0000		0.0000	0.0000	5.1103	11.2615	16.3718	0.5267	0.0126	33.2985
Total	**0.6922**	**0.3966**	**2.7805**	**6.2200e-003**	**0.5855**	**0.0122**	**0.5976**	**0.1564**	**0.0119**	**0.1682**	**22.2204**	**762.7124**	**784.9328**	**1.5944**	**0.0403**	**836.8169**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	9/1/2023	8/31/2023	5	0	

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2793	0.2918	2.6917	5.5900e-003	0.5855	4.2100e-003	0.5897	0.1564	3.9200e-003	0.1603	0.0000	515.2650	515.2650	0.0346	0.0232	523.0576
Unmitigated	0.2793	0.2918	2.6917	5.5900e-003	0.5855	4.2100e-003	0.5897	0.1564	3.9200e-003	0.1603	0.0000	515.2650	515.2650	0.0346	0.0232	523.0576

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	882.75	200.29	63.44	1,596,855	1,596,855

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

Total	882.75	200.29	63.44	1,596,855	1,596,855

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.492711	0.069436	0.224270	0.138474	0.024483	0.005815	0.009990	0.002247	0.001578	0.000636	0.027452	0.000440	0.002469

5.0 Energy Detail

Historical Energy Use: Y

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	122.0932	122.0932	0.0198	2.3900e-003	123.3005
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	122.0932	122.0932	0.0198	2.3900e-003	123.3005
NaturalGas Mitigated	0.0115	0.1048	0.0880	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	114.0910	114.0910	2.1900e-003	2.0900e-003	114.7690
NaturalGas Unmitigated	0.0115	0.1048	0.0880	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	114.0910	114.0910	2.1900e-003	2.0900e-003	114.7690

5.2 Energy by Land Use - NaturalGas

Date: 9/20/2022 10:04 AM

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

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	2.13799e+006	0.0115	0.1048	0.0880	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	114.0910	114.0910	2.1900e-003	2.0900e-003	114.7690
Total		**0.0115**	**0.1048**	**0.0880**	**6.3000e-004**		**7.9700e-003**	**7.9700e-003**		**7.9700e-003**	**7.9700e-003**	**0.0000**	**114.0910**	**114.0910**	**2.1900e-003**	**2.0900e-003**	**114.7690**

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	2.13799e+006	0.0115	0.1048	0.0880	6.3000e-004		7.9700e-003	7.9700e-003		7.9700e-003	7.9700e-003	0.0000	114.0910	114.0910	2.1900e-003	2.0900e-003	114.7690
Total		**0.0115**	**0.1048**	**0.0880**	**6.3000e-004**		**7.9700e-003**	**7.9700e-003**		**7.9700e-003**	**7.9700e-003**	**0.0000**	**114.0910**	**114.0910**	**2.1900e-003**	**2.0900e-003**	**114.7690**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			

General Office Building	1.31959e+006	122.0932	0.0198	2.3900e-003	123.3005
Total		**122.0932**	**0.0198**	**2.3900e-003**	**123.3005**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	1.31959e+006	122.0932	0.0198	2.3900e-003	123.3005
Total		**122.0932**	**0.0198**	**2.3900e-003**	**123.3005**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4013	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6200e-003	1.6200e-003	0.0000	0.0000	1.7300e-003
Unmitigated	0.4013	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6200e-003	1.6200e-003	0.0000	0.0000	1.7300e-003

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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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	0.0473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3540					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6200e-003	1.6200e-003	0.0000	0.0000	1.7300e-003
Total	**0.4013**	**1.0000e-005**	**8.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.6200e-003**	**1.6200e-003**	**0.0000**	**0.0000**	**1.7300e-003**

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	0.0473					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3540					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6200e-003	1.6200e-003	0.0000	0.0000	1.7300e-003
Total	**0.4013**	**1.0000e-005**	**8.3000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.6200e-003**	**1.6200e-003**	**0.0000**	**0.0000**	**1.7300e-003**

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.3718	0.5267	0.0126	33.2985
Unmitigated	16.3718	0.5267	0.0126	33.2985

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	16.108 / 9.87265	16.3718	0.5267	0.0126	33.2985
Total		**16.3718**	**0.5267**	**0.0126**	**33.2985**

Mitigated

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	16.108 / 9.87265	16.3718	0.5267	0.0126	33.2985
Total		**16.3718**	**0.5267**	**0.0126**	**33.2985**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.1101	1.0112	0.0000	42.3896
Unmitigated	17.1101	1.0112	0.0000	42.3896

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

Land Use	tons	MT/yr			
General Office Building	84.29	17.1101	1.0112	0.0000	42.3896
Total		**17.1101**	**1.0112**	**0.0000**	**42.3896**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	84.29	17.1101	1.0112	0.0000	42.3896
Total		**17.1101**	**1.0112**	**0.0000**	**42.3896**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Annual

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

Equipment Type	Number

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

1005 O'Brien Drive and 1320 Willow Road (Existing Uses)

San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	90.63	1000sqft	2.08	90,631.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2022
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 - 1005 O'Brien Drive and 1320 Willow Road Project. 2022 operational year for existing uses.

Land Use - Existing uses includes 90,631 SF of buildings.

Construction Phase - Modeling operations only.

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

Off-road Equipment - Modeling operations only.

Trips and VMT - Updated trips per applicant. Haul distance approx 25 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis. TO BE UPDATED.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood or gas hearths/stoves.

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

Energy Use - Use of historical energy data.

Water And Wastewater - Default rates assumed.

Solid Waste - Default rates assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	9/28/2023	8/31/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Energy	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Mobile	2.1657	1.9318	19.0897	0.0424	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,304.0094	4,304.0094	0.2593	0.1753	4,362.7375
Total	**4.4282**	**2.5062**	**19.5813**	**0.0458**	**4.4332**	**0.0743**	**4.5075**	**1.1800**	**0.0722**	**1.2521**		**4,993.1462**	**4,993.1462**	**0.2726**	**0.1880**	**5,055.9707**

Mitigated Operational

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Energy	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Mobile	2.1657	1.9318	19.0897	0.0424	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,304.0094	4,304.0094	0.2593	0.1753	4,362.7375
Total	**4.4282**	**2.5062**	**19.5813**	**0.0458**	**4.4332**	**0.0743**	**4.5075**	**1.1800**	**0.0722**	**1.2521**		**4,993.1462**	**4,993.1462**	**0.2726**	**0.1880**	**5,055.9707**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	9/1/2023	8/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1657	1.9318	19.0897	0.0424	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,304.0094	4,304.0094	0.2593	0.1753	4,362.7375
Unmitigated	2.1657	1.9318	19.0897	0.0424	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,304.0094	4,304.0094	0.2593	0.1753	4,362.7375

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	882.75	200.29	63.44	1,596,855	1,596,855
Total	882.75	200.29	63.44	1,596,855	1,596,855

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.492711	0.069436	0.224270	0.138474	0.024483	0.005815	0.009990	0.002247	0.001578	0.000636	0.027452	0.000440	0.002469

5.0 Energy Detail

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

Historical Energy Use: Y

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	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
NaturalGas Unmitigated	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	5857.49	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Total		**0.0632**	**0.5743**	**0.4824**	**3.4500e-003**		**0.0436**	**0.0436**		**0.0436**	**0.0436**		**689.1169**	**689.1169**	**0.0132**	**0.0126**	**693.2120**

Mitigated

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

	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	5.85749	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Total		**0.0632**	**0.5743**	**0.4824**	**3.4500e-003**		**0.0436**	**0.0436**		**0.0436**	**0.0436**		**689.1169**	**689.1169**	**0.0132**	**0.0126**	**693.2120**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Unmitigated	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211

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

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

SubCategory	lb/day										lb/day					
Architectural Coating	0.2590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Total	**2.1993**	**8.0000e-005**	**9.2700e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0198**	**0.0198**	**5.0000e-005**		**0.0211**

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	0.2590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Total	**2.1993**	**8.0000e-005**	**9.2700e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0198**	**0.0198**	**5.0000e-005**		**0.0211**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Summer

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

1005 O'Brien Drive and 1320 Willow Road (Existing Uses)

San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	90.63	1000sqft	2.08	90,631.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2022
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 - 1005 O'Brien Drive and 1320 Willow Road Project. 2022 operational year for existing uses.

Land Use - Existing uses includes 90,631 SF of buildings.

Construction Phase - Modeling operations only.

Off-road Equipment - Updated equipment per applicant. Other equipment includes stucco rigs (4) and paint sprayers (6).

Off-road Equipment - Modeling operations only.

Trips and VMT - Updated trips per applicant. Haul distance approx 25 miles per applicant.

Demolition - 103000 SF of existing office and 203000 SF of AC.

Grading - 5260 CY imported and 32000 CY exported.

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - Updated weekday trip generation rates per transportation analysis. TO BE UPDATED.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - No wood or gas hearths/stoves.

Date: 9/20/2022 10:19 AM

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

Energy Use - Use of historical energy data.

Water And Wastewater - Default rates assumed.

Solid Waste - Default rates assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	9/28/2023	8/31/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

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	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Energy	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Mobile	2.0610	2.2386	20.7740	0.0406	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,118.9496	4,118.9496	0.2918	0.1933	4,183.8518
Total	**4.3235**	**2.8130**	**21.2656**	**0.0440**	**4.4332**	**0.0743**	**4.5075**	**1.1800**	**0.0722**	**1.2521**		**4,808.0863**	**4,808.0863**	**0.3051**	**0.2059**	**4,877.0849**

Mitigated Operational

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Energy	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Mobile	2.0610	2.2386	20.7740	0.0406	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,118.9496	4,118.9496	0.2918	0.1933	4,183.8518
Total	**4.3235**	**2.8130**	**21.2656**	**0.0440**	**4.4332**	**0.0743**	**4.5075**	**1.1800**	**0.0722**	**1.2521**		**4,808.0863**	**4,808.0863**	**0.3051**	**0.2059**	**4,877.0849**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	9/1/2023	8/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0610	2.2386	20.7740	0.0406	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,118.9496	4,118.9496	0.2918	0.1933	4,183.8518
Unmitigated	2.0610	2.2386	20.7740	0.0406	4.4332	0.0306	4.4638	1.1800	0.0285	1.2085		4,118.9496	4,118.9496	0.2918	0.1933	4,183.8518

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	882.75	200.29	63.44	1,596,855	1,596,855
Total	882.75	200.29	63.44	1,596,855	1,596,855

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.492711	0.069436	0.224270	0.138474	0.024483	0.005815	0.009990	0.002247	0.001578	0.000636	0.027452	0.000440	0.002469

5.0 Energy Detail

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

Historical Energy Use: Y

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	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
NaturalGas Unmitigated	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	5857.49	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Total		**0.0632**	**0.5743**	**0.4824**	**3.4500e-003**		**0.0436**	**0.0436**		**0.0436**	**0.0436**		**689.1169**	**689.1169**	**0.0132**	**0.0126**	**693.2120**

Mitigated

Date: 9/20/2022 10:19 AM

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

	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	5.85749	0.0632	0.5743	0.4824	3.4500e-003		0.0436	0.0436		0.0436	0.0436		689.1169	689.1169	0.0132	0.0126	693.2120
Total		**0.0632**	**0.5743**	**0.4824**	**3.4500e-003**		**0.0436**	**0.0436**		**0.0436**	**0.0436**		**689.1169**	**689.1169**	**0.0132**	**0.0126**	**693.2120**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Unmitigated	2.1993	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211

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

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

SubCategory	lb/day										lb/day					
Architectural Coating	0.2590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Total	**2.1993**	**8.0000e-005**	**9.2700e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0198**	**0.0198**	**5.0000e-005**		**0.0211**

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	0.2590					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.9395					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.6000e-004	8.0000e-005	9.2700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0198	0.0198	5.0000e-005		0.0211
Total	**2.1993**	**8.0000e-005**	**9.2700e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0198**	**0.0198**	**5.0000e-005**		**0.0211**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Date: 9/20/2022 10:19 AM

1005 O'Brien Drive and 1320 Willow Road (Existing Uses) - San Mateo County, Winter

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1)

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	154.58	1000sqft	3.55	154,581.00	0
Enclosed Parking with Elevator	139.50	1000sqft	3.20	139,500.00	0
Other Non-Asphalt Surfaces	54.90	1000sqft	1.26	54,900.00	0
City Park	0.57	Acre	0.57	24,829.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 1005 O'Brien Drive and 1320 Willow Road Project (Phase 1). Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Updated per project description. Phase 1 would include 154,657 SF of buildings, 139,500 SF parking garage, 54,900 SF of impervious surfaces, and 0.57 acres of landscaping.

Construction Phase - Updated schedule per applicant. Phase 1 would begin July 2023 and would be completed May 2025.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Demolition - 64,618 SF of building demolished.

Grading -

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - TO UPDATE. City Park represents landscaping area, no trips assumed.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use - Default rates assumed.

Water And Wastewater - Default rates assumed.

Solid Waste - City park represents landcaping area therefore no solid waste assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Diesel Emergency generator 600 KW

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	77,291.00	15,481.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	231,872.00	46,443.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	77291	15481
tblAreaCoating	Area_Nonresidential_Interior	231872	46443
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

tblConstructionPhase	NumDays	230.00	380.00
tblConstructionPhase	NumDays	20.00	29.00
tblLandUse	LandUseSquareFeet	154,580.00	154,581.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	0.05	0.00
tblTripsAndVMT	HaulingTripNumber	294.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	61.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	142.00	25.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	28.00	5.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1024	1.0130	0.9379	2.0900e-003	0.2037	0.0426	0.2464	0.0794	0.0398	0.1192	0.0000	186.6675	186.6675	0.0436	4.6200e-003	189.1336
2024	0.1591	1.4063	1.6365	3.1400e-003	0.0309	0.0597	0.0906	8.3400e-003	0.0566	0.0649	0.0000	272.8289	272.8289	0.0520	3.0300e-003	275.0300
2025	0.1522	0.3565	0.4622	8.9000e-004	8.9500e-003	0.0143	0.0233	2.4300e-003	0.0135	0.0159	0.0000	78.1257	78.1257	0.0154	1.2500e-003	78.8834

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Maximum	**0.1591**	**1.4063**	**1.6365**	**3.1400e-003**	**0.2037**	**0.0597**	**0.2464**	**0.0794**	**0.0566**	**0.1192**	**0.0000**	**272.8289**	**272.8289**	**0.0520**	**4.6200e-003**	**275.0300**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1024	1.0130	0.9379	2.0900e-003	0.2037	0.0426	0.2464	0.0794	0.0398	0.1192	0.0000	186.6673	186.6673	0.0436	4.6200e-003	189.1334
2024	0.1591	1.4063	1.6365	3.1400e-003	0.0309	0.0597	0.0906	8.3400e-003	0.0566	0.0649	0.0000	272.8286	272.8286	0.0520	3.0300e-003	275.0297
2025	0.1522	0.3565	0.4622	8.9000e-004	8.9500e-003	0.0143	0.0233	2.4300e-003	0.0135	0.0159	0.0000	78.1257	78.1257	0.0154	1.2500e-003	78.8834
Maximum	**0.1591**	**1.4063**	**1.6365**	**3.1400e-003**	**0.2037**	**0.0597**	**0.2464**	**0.0794**	**0.0566**	**0.1192**	**0.0000**	**272.8286**	**272.8286**	**0.0520**	**4.6200e-003**	**275.0297**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2023**	**9-30-2023**	0.6409	0.6409
2	**10-1-2023**	**12-31-2023**	0.4442	0.4442
3	**1-1-2024**	**3-31-2024**	0.3888	0.3888
4	**4-1-2024**	**6-30-2024**	0.3879	0.3879
5	**7-1-2024**	**9-30-2024**	0.3922	0.3922

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

6	**10-1-2024**	**12-31-2024**	0.3931	0.3931
7	**1-1-2025**	**3-31-2025**	0.3281	0.3281
8	**4-1-2025**	**6-30-2025**	0.1646	0.1646
		Highest	0.6409	0.6409

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	0.6370	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6500e-003
Energy	0.0205	0.1862	0.1564	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	213.0610	213.0610	3.8800e-003	3.7200e-003	214.2654
Mobile	0.4965	0.4562	4.8524	0.0103	1.2038	6.5800e-003	1.2104	0.3215	6.1100e-003	0.3277	0.0000	945.6245	945.6245	0.0623	0.0409	959.3676
Stationary	0.0330	0.1477	0.0842	1.6000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	15.3271	15.3271	2.1500e-003	0.0000	15.3808
Waste						0.0000	0.0000		0.0000	0.0000	2.3851	0.0000	2.3851	0.1410	0.0000	5.9091
Water						0.0000	0.0000		0.0000	0.0000	24.1132	2.2515	26.3647	2.4767	0.0585	105.7080
Total	**1.1870**	**0.7901**	**5.0962**	**0.0115**	**1.2038**	**0.0256**	**1.2294**	**0.3215**	**0.0251**	**0.3467**	**26.4984**	**1,176.2703**	**1,202.7686**	**2.6859**	**0.1031**	**1,300.6375**

Mitigated Operational

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6370	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6500e-003
Energy	0.0205	0.1862	0.1564	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	213.0610	213.0610	3.8800e-003	3.7200e-003	214.2654
Mobile	0.4965	0.4562	4.8524	0.0103	1.2038	6.5800e-003	1.2104	0.3215	6.1100e-003	0.3277	0.0000	945.6245	945.6245	0.0623	0.0409	959.3676
Stationary	0.0330	0.1477	0.0842	1.6000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	15.3271	15.3271	2.1500e-003	0.0000	15.3808
Waste						0.0000	0.0000		0.0000	0.0000	2.3851	0.0000	2.3851	0.1410	0.0000	5.9091
Water						0.0000	0.0000		0.0000	0.0000	24.1132	2.2515	26.3647	2.4767	0.0585	105.7080
Total	**1.1870**	**0.7901**	**5.0962**	**0.0115**	**1.2038**	**0.0256**	**1.2294**	**0.3215**	**0.0251**	**0.3467**	**26.4984**	**1,176.2703**	**1,202.7686**	**2.6859**	**0.1031**	**1,300.6375**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	7/1/2023	8/11/2023	5	30	
2	Site Preparation	Site Preparation	8/14/2023	8/25/2023	5	10	
3	Grading	Grading	8/28/2023	10/6/2023	5	30	

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

4	Building Construction	Building Construction	10/9/2023	3/21/2025	5	380	
5	Paving	Paving	3/25/2025	5/2/2025	5	29	
6	Architectural Coating	Architectural Coating	4/7/2025	5/2/2025	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 60

Acres of Paving: 4.46

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 46,443; Non-Residential Outdoor: 15,481; Striped Parking Area: 11,664

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	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	6.00	130	0.42

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	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	4	15.00	2.00	360.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	10.00	2.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	3.00	240.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	25.00	5.00	150.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	5.00	5.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0318	0.0000	0.0318	4.8200e-003	0.0000	4.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1921	0.1992	3.8000e-004		9.0100e-003	9.0100e-003		8.4500e-003	8.4500e-003	0.0000	32.9291	32.9291	8.4400e-003	0.0000	33.1401
Total	**0.0209**	**0.1921**	**0.1992**	**3.8000e-004**	**0.0318**	**9.0100e-003**	**0.0408**	**4.8200e-003**	**8.4500e-003**	**0.0133**	**0.0000**	**32.9291**	**32.9291**	**8.4400e-003**	**0.0000**	**33.1401**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	0.0283	9.2500e-003	1.2000e-004	3.0200e-003	1.8000e-004	3.2100e-003	8.3000e-004	1.8000e-004	1.0100e-003	0.0000	12.2631	12.2631	1.2300e-003	1.9800e-003	12.8827
Vendor	3.0000e-005	1.4100e-003	5.1000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6374	0.6374	4.0000e-005	9.0000e-005	0.6664
Worker	4.8000e-004	3.2000e-004	4.3600e-003	1.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3272
Total	**9.3000e-004**	**0.0300**	**0.0141**	**1.4000e-004**	**4.9900e-003**	**2.0000e-004**	**5.1900e-003**	**1.3600e-003**	**2.0000e-004**	**1.5500e-003**	**0.0000**	**14.2170**	**14.2170**	**1.3000e-003**	**2.1000e-003**	**14.8762**

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					0.0318	0.0000	0.0318	4.8200e-003	0.0000	4.8200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0209	0.1921	0.1992	3.8000e-004		9.0100e-003	9.0100e-003		8.4500e-003	8.4500e-003	0.0000	32.9291	32.9291	8.4400e-003	0.0000	33.1401

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Total	**0.0209**	**0.1921**	**0.1992**	**3.8000e-004**	**0.0318**	**9.0100e-003**	**0.0408**	**4.8200e-003**	**8.4500e-003**	**0.0133**	**0.0000**	**32.9291**	**32.9291**	**8.4400e-003**	**0.0000**	**33.1401**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2000e-004	0.0283	9.2500e-003	1.2000e-004	3.0200e-003	1.8000e-004	3.2100e-003	8.3000e-004	1.8000e-004	1.0100e-003	0.0000	12.2631	12.2631	1.2300e-003	1.9800e-003	12.8827
Vendor	3.0000e-005	1.4100e-003	5.1000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6374	0.6374	4.0000e-005	9.0000e-005	0.6664
Worker	4.8000e-004	3.2000e-004	4.3600e-003	1.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3272
Total	**9.3000e-004**	**0.0300**	**0.0141**	**1.4000e-004**	**4.9900e-003**	**2.0000e-004**	**5.1900e-003**	**1.3600e-003**	**2.0000e-004**	**1.5500e-003**	**0.0000**	**14.2170**	**14.2170**	**1.3000e-003**	**2.1000e-003**	**14.8762**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0328	0.0000	0.0328	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Off-Road	4.9400e-003	0.0510	0.0378	7.0000e-005		2.3600e-003	2.3600e-003		2.1700e-003	2.1700e-003	0.0000	6.4871	6.4871	2.1000e-003	0.0000	6.5395
Total	**4.9400e-003**	**0.0510**	**0.0378**	**7.0000e-005**	**0.0328**	**2.3600e-003**	**0.0351**	**0.0168**	**2.1700e-003**	**0.0190**	**0.0000**	**6.4871**	**6.4871**	**2.1000e-003**	**0.0000**	**6.5395**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.9300e-003	1.2800e-003	2.0000e-005	4.2000e-004	3.0000e-005	4.5000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.7032	1.7032	1.7000e-004	2.7000e-004	1.7893
Vendor	1.0000e-005	4.7000e-004	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2125	0.2125	1.0000e-005	3.0000e-005	0.2221
Worker	1.1000e-004	7.0000e-005	9.7000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2926	0.2926	1.0000e-005	1.0000e-005	0.2949
Total	**1.8000e-004**	**4.4700e-003**	**2.4200e-003**	**2.0000e-005**	**8.8000e-004**	**3.0000e-005**	**9.2000e-004**	**2.4000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**2.2082**	**2.2082**	**1.9000e-004**	**3.1000e-004**	**2.3063**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Fugitive Dust					0.0328	0.0000	0.0328	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.9400e-003	0.0510	0.0378	7.0000e-005		2.3600e-003	2.3600e-003		2.1700e-003	2.1700e-003	0.0000	6.4871	6.4871	2.1000e-003	0.0000	6.5395
Total	**4.9400e-003**	**0.0510**	**0.0378**	**7.0000e-005**	**0.0328**	**2.3600e-003**	**0.0351**	**0.0168**	**2.1700e-003**	**0.0190**	**0.0000**	**6.4871**	**6.4871**	**2.1000e-003**	**0.0000**	**6.5395**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	3.9300e-003	1.2800e-003	2.0000e-005	4.2000e-004	3.0000e-005	4.5000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.7032	1.7032	1.7000e-004	2.7000e-004	1.7893
Vendor	1.0000e-005	4.7000e-004	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2125	0.2125	1.0000e-005	3.0000e-005	0.2221
Worker	1.1000e-004	7.0000e-005	9.7000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2926	0.2926	1.0000e-005	1.0000e-005	0.2949
Total	**1.8000e-004**	**4.4700e-003**	**2.4200e-003**	**2.0000e-005**	**8.8000e-004**	**3.0000e-005**	**9.2000e-004**	**2.4000e-004**	**2.0000e-005**	**2.7000e-004**	**0.0000**	**2.2082**	**2.2082**	**1.9000e-004**	**3.1000e-004**	**2.3063**

3.4 Grading - 2023

Unmitigated Construction On-Site

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Category	tons/yr										MT/yr					
Fugitive Dust					0.1222	0.0000	0.1222	0.0531	0.0000	0.0531	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0358	0.3705	0.2952	6.6000e-004		0.0154	0.0154		0.0141	0.0141	0.0000	57.6939	57.6939	0.0187	0.0000	58.1603
Total	**0.0358**	**0.3705**	**0.2952**	**6.6000e-004**	**0.1222**	**0.0154**	**0.1375**	**0.0531**	**0.0141**	**0.0672**	**0.0000**	**57.6939**	**57.6939**	**0.0187**	**0.0000**	**58.1603**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0189	6.1700e-003	8.0000e-005	2.0100e-003	1.2000e-004	2.1400e-003	5.5000e-004	1.2000e-004	6.7000e-004	0.0000	8.1754	8.1754	8.2000e-004	1.3200e-003	8.5885
Vendor	5.0000e-005	2.1200e-003	7.6000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.9561	0.9561	6.0000e-005	1.4000e-004	0.9995
Worker	4.8000e-004	3.2000e-004	4.3600e-003	1.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3272
Total	**8.1000e-004**	**0.0213**	**0.0113**	**1.0000e-004**	**4.0700e-003**	**1.4000e-004**	**4.2200e-003**	**1.1000e-003**	**1.4000e-004**	**1.2500e-003**	**0.0000**	**10.4480**	**10.4480**	**9.1000e-004**	**1.4900e-003**	**10.9152**

Mitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1222	0.0000	0.1222	0.0531	0.0000	0.0531	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0358	0.3705	0.2952	6.6000e-004		0.0154	0.0154		0.0141	0.0141	0.0000	57.6938	57.6938	0.0187	0.0000	58.1603
Total	**0.0358**	**0.3705**	**0.2952**	**6.6000e-004**	**0.1222**	**0.0154**	**0.1375**	**0.0531**	**0.0141**	**0.0672**	**0.0000**	**57.6938**	**57.6938**	**0.0187**	**0.0000**	**58.1603**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	0.0189	6.1700e-003	8.0000e-005	2.0100e-003	1.2000e-004	2.1400e-003	5.5000e-004	1.2000e-004	6.7000e-004	0.0000	8.1754	8.1754	8.2000e-004	1.3200e-003	8.5885
Vendor	5.0000e-005	2.1200e-003	7.6000e-004	1.0000e-005	2.9000e-004	1.0000e-005	3.0000e-004	8.0000e-005	1.0000e-005	1.0000e-004	0.0000	0.9561	0.9561	6.0000e-005	1.4000e-004	0.9995
Worker	4.8000e-004	3.2000e-004	4.3600e-003	1.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.3165	1.3165	3.0000e-005	3.0000e-005	1.3272
Total	**8.1000e-004**	**0.0213**	**0.0113**	**1.0000e-004**	**4.0700e-003**	**1.4000e-004**	**4.2200e-003**	**1.1000e-003**	**1.4000e-004**	**1.2500e-003**	**0.0000**	**10.4480**	**10.4480**	**9.1000e-004**	**1.4900e-003**	**10.9152**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.3337	0.3601	6.3000e-004		0.0154	0.0154		0.0147	0.0147	0.0000	54.3023	54.3023	0.0116	0.0000	54.5927
Total	**0.0371**	**0.3337**	**0.3601**	**6.3000e-004**		**0.0154**	**0.0154**		**0.0147**	**0.0147**	**0.0000**	**54.3023**	**54.3023**	**0.0116**	**0.0000**	**54.5927**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.8600e-003	6.1000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8068	0.8068	8.0000e-005	1.3000e-004	0.8476
Vendor	1.6000e-004	7.0600e-003	2.5300e-003	3.0000e-005	9.8000e-004	4.0000e-005	1.0200e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	3.1869	3.1869	2.0000e-004	4.7000e-004	3.3318
Worker	1.6200e-003	1.0600e-003	0.0145	5.0000e-005	5.9000e-003	3.0000e-005	5.9300e-003	1.5700e-003	3.0000e-005	1.6000e-003	0.0000	4.3883	4.3883	1.1000e-004	1.1000e-004	4.4239
Total	**1.8100e-003**	**9.9800e-003**	**0.0177**	**9.0000e-005**	**7.0800e-003**	**8.0000e-005**	**7.1600e-003**	**1.9000e-003**	**7.0000e-005**	**1.9900e-003**	**0.0000**	**8.3819**	**8.3819**	**3.9000e-004**	**7.1000e-004**	**8.6032**

Mitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0371	0.3337	0.3601	6.3000e-004		0.0154	0.0154		0.0147	0.0147	0.0000	54.3023	54.3023	0.0116	0.0000	54.5926
Total	**0.0371**	**0.3337**	**0.3601**	**6.3000e-004**		**0.0154**	**0.0154**		**0.0147**	**0.0147**	**0.0000**	**54.3023**	**54.3023**	**0.0116**	**0.0000**	**54.5926**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.8600e-003	6.1000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.1000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8068	0.8068	8.0000e-005	1.3000e-004	0.8476
Vendor	1.6000e-004	7.0600e-003	2.5300e-003	3.0000e-005	9.8000e-004	4.0000e-005	1.0200e-003	2.8000e-004	3.0000e-005	3.2000e-004	0.0000	3.1869	3.1869	2.0000e-004	4.7000e-004	3.3318
Worker	1.6200e-003	1.0600e-003	0.0145	5.0000e-005	5.9000e-003	3.0000e-005	5.9300e-003	1.5700e-003	3.0000e-005	1.6000e-003	0.0000	4.3883	4.3883	1.1000e-004	1.1000e-004	4.4239
Total	**1.8100e-003**	**9.9800e-003**	**0.0177**	**9.0000e-005**	**7.0800e-003**	**8.0000e-005**	**7.1600e-003**	**1.9000e-003**	**7.0000e-005**	**1.9900e-003**	**0.0000**	**8.3819**	**8.3819**	**3.9000e-004**	**7.1000e-004**	**8.6032**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1516	1.3637	1.5631	2.7700e-003		0.0594	0.0594		0.0563	0.0563	0.0000	237.1585	237.1585	0.0503	0.0000	238.4158
Total	**0.1516**	**1.3637**	**1.5631**	**2.7700e-003**		**0.0594**	**0.0594**		**0.0563**	**0.0563**	**0.0000**	**237.1585**	**237.1585**	**0.0503**	**0.0000**	**238.4158**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	8.0100e-003	2.7300e-003	3.0000e-005	8.7000e-004	5.0000e-005	9.2000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	3.4624	3.4624	3.6000e-004	5.6000e-004	3.6379
Vendor	6.7000e-004	0.0305	0.0110	1.3000e-004	4.2800e-003	1.6000e-004	4.4400e-003	1.2400e-003	1.5000e-004	1.3900e-003	0.0000	13.6689	13.6689	8.8000e-004	2.0200e-003	14.2921
Worker	6.6900e-003	4.1300e-003	0.0597	2.0000e-004	0.0258	1.2000e-004	0.0259	6.8600e-003	1.1000e-004	6.9700e-003	0.0000	18.5391	18.5391	4.4000e-004	4.5000e-004	18.6842
Total	**7.4800e-003**	**0.0427**	**0.0734**	**3.6000e-004**	**0.0309**	**3.3000e-004**	**0.0313**	**8.3400e-003**	**3.1000e-004**	**8.6500e-003**	**0.0000**	**35.6704**	**35.6704**	**1.6800e-003**	**3.0300e-003**	**36.6142**

Mitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1516	1.3636	1.5631	2.7700e-003		0.0594	0.0594		0.0563	0.0563	0.0000	237.1582	237.1582	0.0503	0.0000	238.4155
Total	**0.1516**	**1.3636**	**1.5631**	**2.7700e-003**		**0.0594**	**0.0594**		**0.0563**	**0.0563**	**0.0000**	**237.1582**	**237.1582**	**0.0503**	**0.0000**	**238.4155**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	8.0100e-003	2.7300e-003	3.0000e-005	8.7000e-004	5.0000e-005	9.2000e-004	2.4000e-004	5.0000e-005	2.9000e-004	0.0000	3.4624	3.4624	3.6000e-004	5.6000e-004	3.6379
Vendor	6.7000e-004	0.0305	0.0110	1.3000e-004	4.2800e-003	1.6000e-004	4.4400e-003	1.2400e-003	1.5000e-004	1.3900e-003	0.0000	13.6689	13.6689	8.8000e-004	2.0200e-003	14.2921
Worker	6.6900e-003	4.1300e-003	0.0597	2.0000e-004	0.0258	1.2000e-004	0.0259	6.8600e-003	1.1000e-004	6.9700e-003	0.0000	18.5391	18.5391	4.4000e-004	4.5000e-004	18.6842
Total	**7.4800e-003**	**0.0427**	**0.0734**	**3.6000e-004**	**0.0309**	**3.3000e-004**	**0.0313**	**8.3400e-003**	**3.1000e-004**	**8.6500e-003**	**0.0000**	**35.6704**	**35.6704**	**1.6800e-003**	**3.0300e-003**	**36.6142**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0313	0.2803	0.3441	6.1000e-004		0.0114	0.0114		0.0108	0.0108	0.0000	52.5145	52.5145	0.0110	0.0000	52.7905
Total	**0.0313**	**0.2803**	**0.3441**	**6.1000e-004**		**0.0114**	**0.0114**		**0.0108**	**0.0108**	**0.0000**	**52.5145**	**52.5145**	**0.0110**	**0.0000**	**52.7905**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7400e-003	6.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7508	0.7508	8.0000e-005	1.2000e-004	0.7890
Vendor	1.5000e-004	6.6800e-003	2.4400e-003	3.0000e-005	9.5000e-004	4.0000e-005	9.8000e-004	2.7000e-004	3.0000e-005	3.1000e-004	0.0000	2.9665	2.9665	2.0000e-004	4.4000e-004	3.1020
Worker	1.4100e-003	8.3000e-004	0.0125	4.0000e-005	5.7100e-003	3.0000e-005	5.7300e-003	1.5200e-003	2.0000e-005	1.5400e-003	0.0000	3.9669	3.9669	9.0000e-005	9.0000e-005	3.9970
Total	**1.5900e-003**	**9.2500e-003**	**0.0155**	**8.0000e-005**	**6.8500e-003**	**8.0000e-005**	**6.9100e-003**	**1.8400e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**7.6843**	**7.6843**	**3.7000e-004**	**6.5000e-004**	**7.8881**

Mitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0313	0.2803	0.3441	6.1000e-004		0.0114	0.0114		0.0108	0.0108	0.0000	52.5144	52.5144	0.0110	0.0000	52.7905
Total	**0.0313**	**0.2803**	**0.3441**	**6.1000e-004**		**0.0114**	**0.0114**		**0.0108**	**0.0108**	**0.0000**	**52.5144**	**52.5144**	**0.0110**	**0.0000**	**52.7905**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.7400e-003	6.2000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.7508	0.7508	8.0000e-005	1.2000e-004	0.7890
Vendor	1.5000e-004	6.6800e-003	2.4400e-003	3.0000e-005	9.5000e-004	4.0000e-005	9.8000e-004	2.7000e-004	3.0000e-005	3.1000e-004	0.0000	2.9665	2.9665	2.0000e-004	4.4000e-004	3.1020
Worker	1.4100e-003	8.3000e-004	0.0125	4.0000e-005	5.7100e-003	3.0000e-005	5.7300e-003	1.5200e-003	2.0000e-005	1.5400e-003	0.0000	3.9669	3.9669	9.0000e-005	9.0000e-005	3.9970
Total	**1.5900e-003**	**9.2500e-003**	**0.0155**	**8.0000e-005**	**6.8500e-003**	**8.0000e-005**	**6.9100e-003**	**1.8400e-003**	**6.0000e-005**	**1.9100e-003**	**0.0000**	**7.6843**	**7.6843**	**3.7000e-004**	**6.5000e-004**	**7.8881**

3.6 Paving - 2025

Unmitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.9800e-003	0.0467	0.0793	1.2000e-004		2.2800e-003	2.2800e-003		2.0900e-003	2.0900e-003	0.0000	10.8855	10.8855	3.5200e-003	0.0000	10.9735
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.9800e-003**	**0.0467**	**0.0793**	**1.2000e-004**		**2.2800e-003**	**2.2800e-003**		**2.0900e-003**	**2.0900e-003**	**0.0000**	**10.8855**	**10.8855**	**3.5200e-003**	**0.0000**	**10.9735**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	3.0400e-003	1.0800e-003	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.3118	1.3118	1.4000e-004	2.1000e-004	1.3785
Vendor	7.0000e-005	3.3400e-003	1.2200e-003	1.0000e-005	4.7000e-004	2.0000e-005	4.9000e-004	1.4000e-004	2.0000e-005	1.5000e-004	0.0000	1.4832	1.4832	1.0000e-004	2.2000e-004	1.5510
Worker	1.4000e-004	8.0000e-005	1.2500e-003	0.0000	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3967	0.3967	1.0000e-005	1.0000e-005	0.3997
Total	**2.6000e-004**	**6.4600e-003**	**3.5500e-003**	**2.0000e-005**	**1.3800e-003**	**4.0000e-005**	**1.4200e-003**	**3.8000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**3.1918**	**3.1918**	**2.5000e-004**	**4.4000e-004**	**3.3292**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

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	4.9800e-003	0.0467	0.0793	1.2000e-004		2.2800e-003	2.2800e-003		2.0900e-003	2.0900e-003	0.0000	10.8855	10.8855	3.5200e-003	0.0000	10.9735
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.9800e-003**	**0.0467**	**0.0793**	**1.2000e-004**		**2.2800e-003**	**2.2800e-003**		**2.0900e-003**	**2.0900e-003**	**0.0000**	**10.8855**	**10.8855**	**3.5200e-003**	**0.0000**	**10.9735**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	3.0400e-003	1.0800e-003	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	9.0000e-005	2.0000e-005	1.1000e-004	0.0000	1.3118	1.3118	1.4000e-004	2.1000e-004	1.3785
Vendor	7.0000e-005	3.3400e-003	1.2200e-003	1.0000e-005	4.7000e-004	2.0000e-005	4.9000e-004	1.4000e-004	2.0000e-005	1.5000e-004	0.0000	1.4832	1.4832	1.0000e-004	2.2000e-004	1.5510
Worker	1.4000e-004	8.0000e-005	1.2500e-003	0.0000	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3967	0.3967	1.0000e-005	1.0000e-005	0.3997
Total	**2.6000e-004**	**6.4600e-003**	**3.5500e-003**	**2.0000e-005**	**1.3800e-003**	**4.0000e-005**	**1.4200e-003**	**3.8000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**3.1918**	**3.1918**	**2.5000e-004**	**4.4000e-004**	**3.3292**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	**0.1140**	**0.0115**	**0.0181**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5567**

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	5.0000e-005	2.3000e-003	8.4000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.0229	1.0229	7.0000e-005	1.5000e-004	1.0697
Worker	1.0000e-004	6.0000e-005	8.6000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2736	0.2736	1.0000e-005	1.0000e-005	0.2757
Total	**1.5000e-004**	**2.3600e-003**	**1.7000e-003**	**1.0000e-005**	**7.2000e-004**	**1.0000e-005**	**7.4000e-004**	**1.9000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**1.2965**	**1.2965**	**8.0000e-005**	**1.6000e-004**	**1.3453**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

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	0.1123					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	**0.1140**	**0.0115**	**0.0181**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5567**

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	5.0000e-005	2.3000e-003	8.4000e-004	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	9.0000e-005	1.0000e-005	1.1000e-004	0.0000	1.0229	1.0229	7.0000e-005	1.5000e-004	1.0697
Worker	1.0000e-004	6.0000e-005	8.6000e-004	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.2736	0.2736	1.0000e-005	1.0000e-005	0.2757
Total	**1.5000e-004**	**2.3600e-003**	**1.7000e-003**	**1.0000e-005**	**7.2000e-004**	**1.0000e-005**	**7.4000e-004**	**1.9000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**1.2965**	**1.2965**	**8.0000e-005**	**1.6000e-004**	**1.3453**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4965	0.4562	4.8524	0.0103	1.2038	6.5800e-003	1.2104	0.3215	6.1100e-003	0.3277	0.0000	945.6245	945.6245	0.0623	0.0409	959.3676
Unmitigated	0.4965	0.4562	4.8524	0.0103	1.2038	6.5800e-003	1.2104	0.3215	6.1100e-003	0.3277	0.0000	945.6245	945.6245	0.0623	0.0409	959.3676

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,740.57	293.70	171.58	3,282,518	3,282,518
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,740.57	293.70	171.58	3,282,518	3,282,518

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
City Park	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Enclosed Parking with Elevator	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Other Non-Asphalt Surfaces	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710

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	10.3823	10.3823	0.0000	0.0000	10.3823
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.3823	10.3823	0.0000	0.0000	10.3823
NaturalGas Mitigated	0.0205	0.1862	0.1564	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	202.6787	202.6787	3.8800e-003	3.7200e-003	203.8831

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

NaturalGas Unmitigated	0.0205	0.1862	0.1564	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	202.6787	202.6787	3.8800e-003	3.7200e-003	203.8831

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	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
Research & Development	3.79806e+006	0.0205	0.1862	0.1564	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	202.6787	202.6787	3.8800e-003	3.7200e-003	203.8831
Total		**0.0205**	**0.1862**	**0.1564**	**1.1200e-003**		**0.0142**	**0.0142**		**0.0142**	**0.0142**	**0.0000**	**202.6787**	**202.6787**	**3.8800e-003**	**3.7200e-003**	**203.8831**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	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
Research & Development	3.79806e+006	0.0205	0.1862	0.1564	1.1200e-003		0.0142	0.0142		0.0142	0.0142	0.0000	202.6787	202.6787	3.8800e-003	3.7200e-003	203.8831
Total		**0.0205**	**0.1862**	**0.1564**	**1.1200e-003**		**0.0142**	**0.0142**		**0.0142**	**0.0142**	**0.0000**	**202.6787**	**202.6787**	**3.8800e-003**	**3.7200e-003**	**203.8831**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	758880	4.1307	0.0000	0.0000	4.1307
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.14854e+006	6.2516	0.0000	0.0000	6.2516
Total		**10.3823**	**0.0000**	**0.0000**	**10.3823**

Mitigated

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	758880	4.1307	0.0000	0.0000	4.1307
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	1.14854e+006	6.2516	0.0000	0.0000	6.2516
Total		**10.3823**	**0.0000**	**0.0000**	**10.3823**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6370	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6500e-003
Unmitigated	0.6370	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6500e-003

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6500e-003
Total	**0.6370**	**3.0000e-005**	**3.2000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.2500e-003**	**6.2500e-003**	**2.0000e-005**	**0.0000**	**6.6500e-003**

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	0.0202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6165					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Landscaping	2.9000e-004	3.0000e-005	3.2000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	6.2500e-003	6.2500e-003	2.0000e-005	0.0000	6.6500e-003
Total	**0.6370**	**3.0000e-005**	**3.2000e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**6.2500e-003**	**6.2500e-003**	**2.0000e-005**	**0.0000**	**6.6500e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.3647	2.4767	0.0585	105.7080
Unmitigated	26.3647	2.4767	0.0585	105.7080

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

City Park	0 / 0.679144	0.0129	0.0000	0.0000	0.0129
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	76.0061 / 0	26.3518	2.4767	0.0585	105.6951
Total		**26.3647**	**2.4767**	**0.0585**	**105.7080**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.679144	0.0129	0.0000	0.0000	0.0129
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	76.0061 / 0	26.3518	2.4767	0.0585	105.6951
Total		**26.3647**	**2.4767**	**0.0585**	**105.7080**

8.0 Waste Detail

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.3851	0.1410	0.0000	5.9091
Unmitigated	2.3851	0.1410	0.0000	5.9091

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	11.75	2.3851	0.1410	0.0000	5.9091
Total		**2.3851**	**0.1410**	**0.0000**	**5.9091**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	11.75	2.3851	0.1410	0.0000	5.9091
Total		**2.3851**	**0.1410**	**0.0000**	**5.9091**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	805	0.73	Diesel

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Annual

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

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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					
Emergency Generator - Diesel (750 - 9999 HP)	0.0330	0.1477	0.0842	1.6000e-004		4.8600e-003	4.8600e-003		4.8600e-003	4.8600e-003	0.0000	15.3271	15.3271	2.1500e-003	0.0000	15.3808
Total	**0.0330**	**0.1477**	**0.0842**	**1.6000e-004**		**4.8600e-003**	**4.8600e-003**		**4.8600e-003**	**4.8600e-003**	**0.0000**	**15.3271**	**15.3271**	**2.1500e-003**	**0.0000**	**15.3808**

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1)

San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	154.58	1000sqft	3.55	154,581.00	0
Enclosed Parking with Elevator	139.50	1000sqft	3.20	139,500.00	0
Other Non-Asphalt Surfaces	54.90	1000sqft	1.26	54,900.00	0
City Park	0.57	Acre	0.57	24,829.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 1005 O'Brien Drive and 1320 Willow Road Project (Phase 1). Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Updated per project description. Phase 1 would include 154,657 SF of buildings, 139,500 SF parking garage, 54,900 SF of impervious surfaces, and 0.57 acres of landscaping.

Construction Phase - Updated schedule per applicant. Phase 1 would begin July 2023 and would be completed May 2025.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Demolition - 64,618 SF of building demolished.

Grading -

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - TO UPDATE. City Park represents landscaping area, no trips assumed.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use - Default rates assumed.

Water And Wastewater - Default rates assumed.

Solid Waste - City park represents landcaping area therefore no solid waste assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Diesel Emergency generator 600 KW

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	77,291.00	15,481.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	231,872.00	46,443.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	77291	15481
tblAreaCoating	Area_Nonresidential_Interior	231872	46443
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

tblConstructionPhase	NumDays	230.00	380.00
tblConstructionPhase	NumDays	20.00	29.00
tblLandUse	LandUseSquareFeet	154,580.00	154,581.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	0.05	0.00
tblTripsAndVMT	HaulingTripNumber	294.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	61.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	142.00	25.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	28.00	5.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.4385	26.0652	20.4464	0.0506	8.4259	1.0334	9.4593	3.6159	0.9511	4.5670	0.0000	5,012.7487	5,012.7487	1.4381	0.1543	5,081.2903
2024	1.2148	10.7216	12.5097	0.0241	0.2461	0.4556	0.7017	0.0661	0.4319	0.4980	0.0000	2,304.1856	2,304.1856	0.4371	0.0251	2,322.6050
2025	11.7771	9.9702	12.4165	0.0240	0.2461	0.3951	0.6411	0.0661	0.3744	0.4405	0.0000	2,296.3322	2,296.3322	0.4335	0.0507	2,314.4776

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Maximum	**11.7771**	**26.0652**	**20.4464**	**0.0506**	**8.4259**	**1.0334**	**9.4593**	**3.6159**	**0.9511**	**4.5670**	**0.0000**	**5,012.7487**	**5,012.7487**	**1.4381**	**0.1543**	**5,081.2903**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.4385	26.0652	20.4464	0.0506	8.4259	1.0334	9.4593	3.6159	0.9511	4.5670	0.0000	5,012.7487	5,012.7487	1.4381	0.1543	5,081.2903
2024	1.2148	10.7216	12.5097	0.0241	0.2461	0.4556	0.7017	0.0661	0.4319	0.4980	0.0000	2,304.1856	2,304.1856	0.4371	0.0251	2,322.6050
2025	11.7771	9.9702	12.4165	0.0240	0.2461	0.3951	0.6411	0.0661	0.3744	0.4405	0.0000	2,296.3322	2,296.3322	0.4335	0.0507	2,314.4776
Maximum	**11.7771**	**26.0652**	**20.4464**	**0.0506**	**8.4259**	**1.0334**	**9.4593**	**3.6159**	**0.9511**	**4.5670**	**0.0000**	**5,012.7487**	**5,012.7487**	**1.4381**	**0.1543**	**5,081.2903**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

2.2 Overall Operational

Unmitigated Operational

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Energy	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Mobile	3.8777	3.0340	34.4569	0.0781	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,933.3991	7,933.3991	0.4729	0.3114	8,038.0060
Stationary	0.6605	2.9539	1.6842	3.1700e-003		0.0972	0.0972		0.0972	0.0972		337.9044	337.9044	0.0474		339.0888
Total	**8.1425**	**7.0084**	**37.0336**	**0.0873**	**9.1698**	**0.2229**	**9.3927**	**2.4411**	**0.2195**	**2.6606**		**9,495.5718**	**9,495.5718**	**0.5440**	**0.3338**	**9,608.6428**

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	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Energy	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Mobile	3.8777	3.0340	34.4569	0.0781	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,933.3991	7,933.3991	0.4729	0.3114	8,038.0060
Stationary	0.6605	2.9539	1.6842	3.1700e-003		0.0972	0.0972		0.0972	0.0972		337.9044	337.9044	0.0474		339.0888
Total	**8.1425**	**7.0084**	**37.0336**	**0.0873**	**9.1698**	**0.2229**	**9.3927**	**2.4411**	**0.2195**	**2.6606**		**9,495.5718**	**9,495.5718**	**0.5440**	**0.3338**	**9,608.6428**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	7/1/2023	8/11/2023	5	30	
2	Site Preparation	Site Preparation	8/14/2023	8/25/2023	5	10	
3	Grading	Grading	8/28/2023	10/6/2023	5	30	
4	Building Construction	Building Construction	10/9/2023	3/21/2025	5	380	
5	Paving	Paving	3/25/2025	5/2/2025	5	29	
6	Architectural Coating	Architectural Coating	4/7/2025	5/2/2025	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 60

Acres of Paving: 4.46

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 46,443; Non-Residential Outdoor: 15,481; Striped Parking Area: 11,664

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	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	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	4	15.00	2.00	360.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	10.00	2.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	3.00	240.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	25.00	5.00	150.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	5.00	5.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1202	0.0000	2.1202	0.3210	0.0000	0.3210			0.0000			0.0000
Off-Road	1.3957	12.8086	13.2792	0.0251		0.6008	0.6008		0.5630	0.5630		2,419.8777	2,419.8777	0.6202		2,435.3816
Total	**1.3957**	**12.8086**	**13.2792**	**0.0251**	**2.1202**	**0.6008**	**2.7210**	**0.3210**	**0.5630**	**0.8840**		**2,419.8777**	**2,419.8777**	**0.6202**		**2,435.3816**

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	0.0285	1.8203	0.6161	7.7100e-003	0.2090	0.0123	0.2213	0.0572	0.0118	0.0690		901.0744	901.0744	0.0904	0.1452	946.5935
Vendor	2.1500e-003	0.0910	0.0333	4.2000e-004	0.0135	4.8000e-004	0.0140	3.8900e-003	4.6000e-004	4.3500e-003		46.8294	46.8294	2.8800e-003	6.9000e-003	48.9572
Worker	0.0326	0.0186	0.3029	1.0100e-003	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		102.0159	102.0159	2.3000e-003	2.2300e-003	102.7390
Total	**0.0633**	**1.9299**	**0.9523**	**9.1400e-003**	**0.3457**	**0.0134**	**0.3591**	**0.0938**	**0.0128**	**0.1066**		**1,049.9197**	**1,049.9197**	**0.0956**	**0.1543**	**1,098.2897**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

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					2.1202	0.0000	2.1202	0.3210	0.0000	0.3210			0.0000			0.0000
Off-Road	1.3957	12.8086	13.2792	0.0251		0.6008	0.6008		0.5630	0.5630	0.0000	2,419.8777	2,419.8777	0.6202		2,435.3816
Total	**1.3957**	**12.8086**	**13.2792**	**0.0251**	**2.1202**	**0.6008**	**2.7210**	**0.3210**	**0.5630**	**0.8840**	**0.0000**	**2,419.8777**	**2,419.8777**	**0.6202**		**2,435.3816**

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	0.0285	1.8203	0.6161	7.7100e-003	0.2090	0.0123	0.2213	0.0572	0.0118	0.0690		901.0744	901.0744	0.0904	0.1452	946.5935
Vendor	2.1500e-003	0.0910	0.0333	4.2000e-004	0.0135	4.8000e-004	0.0140	3.8900e-003	4.6000e-004	4.3500e-003		46.8294	46.8294	2.8800e-003	6.9000e-003	48.9572
Worker	0.0326	0.0186	0.3029	1.0100e-003	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		102.0159	102.0159	2.3000e-003	2.2300e-003	102.7390
Total	**0.0633**	**1.9299**	**0.9523**	**9.1400e-003**	**0.3457**	**0.0134**	**0.3591**	**0.0938**	**0.0128**	**0.1066**		**1,049.9197**	**1,049.9197**	**0.0956**	**0.1543**	**1,098.2897**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.9874	10.1985	7.5690	0.0148		0.4726	0.4726		0.4348	0.4348		1,430.1537	1,430.1537	0.4625		1,441.7172
Total	**0.9874**	**10.1985**	**7.5690**	**0.0148**	**6.5523**	**0.4726**	**7.0249**	**3.3675**	**0.4348**	**3.8022**		**1,430.1537**	**1,430.1537**	**0.4625**		**1,441.7172**

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	0.0119	0.7584	0.2567	3.2100e-003	0.0871	5.1300e-003	0.0922	0.0238	4.9100e-003	0.0287		375.4477	375.4477	0.0377	0.0605	394.4139
Vendor	2.1500e-003	0.0910	0.0333	4.2000e-004	0.0135	4.8000e-004	0.0140	3.8900e-003	4.6000e-004	4.3500e-003		46.8294	46.8294	2.8800e-003	6.9000e-003	48.9572
Worker	0.0218	0.0124	0.2020	6.7000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		68.0106	68.0106	1.5300e-003	1.4900e-003	68.4927

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Total	**0.0358**	**0.8619**	**0.4920**	**4.3000e-003**	**0.1827**	**5.9900e-003**	**0.1887**	**0.0495**	**5.7200e-003**	**0.0552**		**490.2877**	**490.2877**	**0.0421**	**0.0689**	**511.8638**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.9874	10.1985	7.5690	0.0148		0.4726	0.4726		0.4348	0.4348	0.0000	1,430.1537	1,430.1537	0.4625		1,441.7172
Total	**0.9874**	**10.1985**	**7.5690**	**0.0148**	**6.5523**	**0.4726**	**7.0249**	**3.3675**	**0.4348**	**3.8022**	**0.0000**	**1,430.1537**	**1,430.1537**	**0.4625**		**1,441.7172**

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	0.0119	0.7584	0.2567	3.2100e-003	0.0871	5.1300e-003	0.0922	0.0238	4.9100e-003	0.0287		375.4477	375.4477	0.0377	0.0605	394.4139
Vendor	2.1500e-003	0.0910	0.0333	4.2000e-004	0.0135	4.8000e-004	0.0140	3.8900e-003	4.6000e-004	4.3500e-003		46.8294	46.8294	2.8800e-003	6.9000e-003	48.9572

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Worker	0.0218	0.0124	0.2020	6.7000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		68.0106	68.0106	1.5300e-003	1.4900e-003	68.4927
Total	**0.0358**	**0.8619**	**0.4920**	**4.3000e-003**	**0.1827**	**5.9900e-003**	**0.1887**	**0.0495**	**5.7200e-003**	**0.0552**		**490.2877**	**490.2877**	**0.0421**	**0.0689**	**511.8638**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1431	0.0000	8.1431	3.5393	0.0000	3.5393			0.0000			0.0000
Off-Road	2.3836	24.6965	19.6828	0.0438		1.0239	1.0239		0.9420	0.9420		4,239.7724	4,239.7724	1.3712		4,274.0531
Total	**2.3836**	**24.6965**	**19.6828**	**0.0438**	**8.1431**	**1.0239**	**9.1670**	**3.5393**	**0.9420**	**4.4812**		**4,239.7724**	**4,239.7724**	**1.3712**		**4,274.0531**

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	0.0190	1.2135	0.4107	5.1400e-003	0.1393	8.2100e-003	0.1475	0.0381	7.8600e-003	0.0460		600.7163	600.7163	0.0603	0.0968	631.0623

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Vendor	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0326	0.0186	0.3029	1.0100e-003	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		102.0159	102.0159	2.3000e-003	2.2300e-003	102.7390
Total	**0.0549**	**1.3687**	**0.7636**	**6.7800e-003**	**0.2828**	**9.5000e-003**	**0.2923**	**0.0766**	**9.0700e-003**	**0.0857**		**772.9763**	**772.9763**	**0.0669**	**0.1094**	**807.2371**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1431	0.0000	8.1431	3.5393	0.0000	3.5393			0.0000			0.0000
Off-Road	2.3836	24.6965	19.6828	0.0438		1.0239	1.0239		0.9420	0.9420	0.0000	4,239.7724	4,239.7724	1.3712		4,274.0531
Total	**2.3836**	**24.6965**	**19.6828**	**0.0438**	**8.1431**	**1.0239**	**9.1670**	**3.5393**	**0.9420**	**4.4812**	**0.0000**	**4,239.7724**	**4,239.7724**	**1.3712**		**4,274.0531**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	0.0190	1.2135	0.4107	5.1400e-003	0.1393	8.2100e-003	0.1475	0.0381	7.8600e-003	0.0460		600.7163	600.7163	0.0603	0.0968	631.0623
Vendor	3.2300e-003	0.1366	0.0500	6.3000e-004	0.0203	7.2000e-004	0.0210	5.8300e-003	6.9000e-004	6.5300e-003		70.2441	70.2441	4.3200e-003	0.0104	73.4358
Worker	0.0326	0.0186	0.3029	1.0100e-003	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		102.0159	102.0159	2.3000e-003	2.2300e-003	102.7390
Total	**0.0549**	**1.3687**	**0.7636**	**6.7800e-003**	**0.2828**	**9.5000e-003**	**0.2923**	**0.0766**	**9.0700e-003**	**0.0857**		**772.9763**	**772.9763**	**0.0669**	**0.1094**	**807.2371**

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	1.2352	11.1218	12.0020	0.0212		0.5148	0.5148		0.4883	0.4883		1,995.2688	1,995.2688	0.4268		2,005.9376
Total	**1.2352**	**11.1218**	**12.0020**	**0.0212**		**0.5148**	**0.5148**		**0.4883**	**0.4883**		**1,995.2688**	**1,995.2688**	**0.4268**		**2,005.9376**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	9.4000e-004	0.0599	0.0203	2.5000e-004	6.8700e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.6406	29.6406	2.9700e-003	4.7800e-003	31.1379
Vendor	5.3800e-003	0.2276	0.0833	1.0500e-003	0.0338	1.2100e-003	0.0350	9.7200e-003	1.1600e-003	0.0109		117.0736	117.0736	7.2100e-003	0.0173	122.3931
Worker	0.0544	0.0310	0.5049	1.6800e-003	0.2054	9.5000e-004	0.2063	0.0545	8.7000e-004	0.0554		170.0265	170.0265	3.8300e-003	3.7200e-003	171.2317
Total	**0.0607**	**0.3185**	**0.6084**	**2.9800e-003**	**0.2460**	**2.5700e-003**	**0.2486**	**0.0661**	**2.4200e-003**	**0.0685**		**316.7406**	**316.7406**	**0.0140**	**0.0258**	**324.7627**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2352	11.1218	12.0020	0.0212		0.5148	0.5148		0.4883	0.4883	0.0000	1,995.2688	1,995.2688	0.4268		2,005.9376
Total	**1.2352**	**11.1218**	**12.0020**	**0.0212**		**0.5148**	**0.5148**		**0.4883**	**0.4883**	**0.0000**	**1,995.2688**	**1,995.2688**	**0.4268**		**2,005.9376**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	9.4000e-004	0.0599	0.0203	2.5000e-004	6.8700e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.6406	29.6406	2.9700e-003	4.7800e-003	31.1379
Vendor	5.3800e-003	0.2276	0.0833	1.0500e-003	0.0338	1.2100e-003	0.0350	9.7200e-003	1.1600e-003	0.0109		117.0736	117.0736	7.2100e-003	0.0173	122.3931
Worker	0.0544	0.0310	0.5049	1.6800e-003	0.2054	9.5000e-004	0.2063	0.0545	8.7000e-004	0.0554		170.0265	170.0265	3.8300e-003	3.7200e-003	171.2317
Total	**0.0607**	**0.3185**	**0.6084**	**2.9800e-003**	**0.2460**	**2.5700e-003**	**0.2486**	**0.0661**	**2.4200e-003**	**0.0685**		**316.7406**	**316.7406**	**0.0140**	**0.0258**	**324.7627**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1572	10.4095	11.9321	0.0212		0.4531	0.4531		0.4295	0.4295		1,995.5913	1,995.5913	0.4232		2,006.1714
Total	**1.1572**	**10.4095**	**11.9321**	**0.0212**		**0.4531**	**0.4531**		**0.4295**	**0.4295**		**1,995.5913**	**1,995.5913**	**0.4232**		**2,006.1714**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	9.3000e-004	0.0590	0.0208	2.5000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.1307	29.1307	3.0500e-003	4.7000e-003	30.6070
Vendor	5.2000e-003	0.2253	0.0830	1.0300e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		114.9910	114.9910	7.3800e-003	0.0170	120.2304
Worker	0.0514	0.0278	0.4738	1.6300e-003	0.2054	9.0000e-004	0.2063	0.0545	8.3000e-004	0.0553		164.4726	164.4726	3.4700e-003	3.4800e-003	165.5962
Total	**0.0576**	**0.3121**	**0.5776**	**2.9100e-003**	**0.2461**	**2.5200e-003**	**0.2486**	**0.0661**	**2.3800e-003**	**0.0685**		**308.5942**	**308.5942**	**0.0139**	**0.0251**	**316.4336**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1572	10.4095	11.9321	0.0212		0.4531	0.4531		0.4295	0.4295	0.0000	1,995.5913	1,995.5913	0.4232		2,006.1714
Total	**1.1572**	**10.4095**	**11.9321**	**0.0212**		**0.4531**	**0.4531**		**0.4295**	**0.4295**	**0.0000**	**1,995.5913**	**1,995.5913**	**0.4232**		**2,006.1714**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	9.3000e-004	0.0590	0.0208	2.5000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.1307	29.1307	3.0500e-003	4.7000e-003	30.6070
Vendor	5.2000e-003	0.2253	0.0830	1.0300e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		114.9910	114.9910	7.3800e-003	0.0170	120.2304
Worker	0.0514	0.0278	0.4738	1.6300e-003	0.2054	9.0000e-004	0.2063	0.0545	8.3000e-004	0.0553		164.4726	164.4726	3.4700e-003	3.4800e-003	165.5962
Total	**0.0576**	**0.3121**	**0.5776**	**2.9100e-003**	**0.2461**	**2.5200e-003**	**0.2486**	**0.0661**	**2.3800e-003**	**0.0685**		**308.5942**	**308.5942**	**0.0139**	**0.0251**	**316.4336**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0780	9.6644	11.8662	0.0212		0.3926	0.3926		0.3721	0.3721		1,996.1138	1,996.1138	0.4197		2,006.6067
Total	**1.0780**	**9.6644**	**11.8662**	**0.0212**		**0.3926**	**0.3926**		**0.3721**	**0.3721**		**1,996.1138**	**1,996.1138**	**0.4197**		**2,006.6067**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	9.2000e-004	0.0579	0.0213	2.4000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		28.5355	28.5355	3.1200e-003	4.6100e-003	29.9864
Vendor	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	0.0489	0.0252	0.4460	1.5700e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		158.9546	158.9546	3.1500e-003	3.2700e-003	160.0082
Total	**0.0549**	**0.3058**	**0.5503**	**2.8100e-003**	**0.2461**	**2.4800e-003**	**0.2485**	**0.0661**	**2.3400e-003**	**0.0684**		**300.2184**	**300.2184**	**0.0138**	**0.0245**	**307.8708**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0780	9.6644	11.8662	0.0212		0.3926	0.3926		0.3721	0.3721	0.0000	1,996.1138	1,996.1138	0.4197		2,006.6067
Total	**1.0780**	**9.6644**	**11.8662**	**0.0212**		**0.3926**	**0.3926**		**0.3721**	**0.3721**	**0.0000**	**1,996.1138**	**1,996.1138**	**0.4197**		**2,006.6067**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Hauling	9.2000e-004	0.0579	0.0213	2.4000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		28.5355	28.5355	3.1200e-003	4.6100e-003	29.9864
Vendor	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	0.0489	0.0252	0.4460	1.5700e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		158.9546	158.9546	3.1500e-003	3.2700e-003	160.0082
Total	**0.0549**	**0.3058**	**0.5503**	**2.8100e-003**	**0.2461**	**2.4800e-003**	**0.2485**	**0.0661**	**2.3400e-003**	**0.0684**		**300.2184**	**300.2184**	**0.0138**	**0.0245**	**307.8708**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3432	3.2181	5.4667	8.5500e-003		0.1570	0.1570		0.1444	0.1444		827.5294	827.5294	0.2676		834.2204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3432**	**3.2181**	**5.4667**	**8.5500e-003**		**0.1570**	**0.1570**		**0.1444**	**0.1444**		**827.5294**	**827.5294**	**0.2676**		**834.2204**

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Category	lb/day										lb/day					
Hauling	3.2000e-003	0.2023	0.0745	8.5000e-004	0.0240	1.4200e-003	0.0255	6.5800e-003	1.3600e-003	7.9400e-003	99.7104	99.7104	0.0109	0.0161	104.7799	
Vendor	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109	112.7283	112.7283	7.5300e-003	0.0166	117.8763	
Worker	9.7900e-003	5.0400e-003	0.0892	3.1000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111	31.7909	31.7909	6.3000e-004	6.5000e-004	32.0016	
Total	**0.0181**	**0.4300**	**0.2467**	**2.1600e-003**	**0.0989**	**2.8000e-003**	**0.1017**	**0.0272**	**2.6800e-003**	**0.0299**	**244.2295**	**244.2295**	**0.0191**	**0.0334**	**254.6578**	

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	0.3432	3.2181	5.4667	8.5500e-003		0.1570	0.1570		0.1444	0.1444	0.0000	827.5294	827.5294	0.2676		834.2204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3432**	**3.2181**	**5.4667**	**8.5500e-003**		**0.1570**	**0.1570**		**0.1444**	**0.1444**	**0.0000**	**827.5294**	**827.5294**	**0.2676**		**834.2204**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2000e-003	0.2023	0.0745	8.5000e-004	0.0240	1.4200e-003	0.0255	6.5800e-003	1.3600e-003	7.9400e-003		99.7104	99.7104	0.0109	0.0161	104.7799
Vendor	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	9.7900e-003	5.0400e-003	0.0892	3.1000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111		31.7909	31.7909	6.3000e-004	6.5000e-004	32.0016
Total	**0.0181**	**0.4300**	**0.2467**	**2.1600e-003**	**0.0989**	**2.8000e-003**	**0.1017**	**0.0272**	**2.6800e-003**	**0.0299**		**244.2295**	**244.2295**	**0.0191**	**0.0334**	**254.6578**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.2301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**11.4010**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	9.7900e-003	5.0400e-003	0.0892	3.1000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111		31.7909	31.7909	6.3000e-004	6.5000e-004	32.0016
Total	**0.0149**	**0.2277**	**0.1722**	**1.3100e-003**	**0.0749**	**1.3800e-003**	**0.0763**	**0.0206**	**1.3200e-003**	**0.0219**		**144.5192**	**144.5192**	**8.1600e-003**	**0.0173**	**149.8779**

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	11.2301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**11.4010**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

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	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	9.7900e-003	5.0400e-003	0.0892	3.1000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111		31.7909	31.7909	6.3000e-004	6.5000e-004	32.0016
Total	**0.0149**	**0.2277**	**0.1722**	**1.3100e-003**	**0.0749**	**1.3800e-003**	**0.0763**	**0.0206**	**1.3200e-003**	**0.0219**		**144.5192**	**144.5192**	**8.1600e-003**	**0.0173**	**149.8779**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.8777	3.0340	34.4569	0.0781	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,933.3991	7,933.3991	0.4729	0.3114	8,038.0060
Unmitigated	3.8777	3.0340	34.4569	0.0781	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,933.3991	7,933.3991	0.4729	0.3114	8,038.0060

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,740.57	293.70	171.58	3,282,518	3,282,518
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,740.57	293.70	171.58	3,282,518	3,282,518

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
City Park	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Enclosed Parking with Elevator	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Other Non-Asphalt Surfaces	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
NaturalGas Unmitigated	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	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
Research & Development	10405.6	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Total		**0.1122**	**1.0202**	**0.8569**	**6.1200e-003**		**0.0775**	**0.0775**		**0.0775**	**0.0775**		**1,224.1918**	**1,224.1918**	**0.0235**	**0.0224**	**1,231.4666**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	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
Research & Development	10.4056	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Total		**0.1122**	**1.0202**	**0.8569**	**6.1200e-003**		**0.0775**	**0.0775**		**0.0775**	**0.0775**		**1,224.1918**	**1,224.1918**	**0.0235**	**0.0224**	**1,231.4666**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Mitigated	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Unmitigated	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815

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	0.1107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3782					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Total	**3.4921**	**3.2000e-004**	**0.0356**	**0.0000**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**		**0.0765**	**0.0765**	**2.0000e-004**		**0.0815**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Architectural Coating	0.1107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3782					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Total	**3.4921**	**3.2000e-004**	**0.0356**	**0.0000**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**		**0.0765**	**0.0765**	**2.0000e-004**		**0.0815**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	805	0.73	Diesel

Boilers

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

User Defined Equipment

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Summer

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

Equipment Type	Number

10.1 Stationary Sources

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					
Emergency Generator - Diesel	0.6605	2.9539	1.6842	3.1700e-003		0.0972	0.0972		0.0972	0.0972		337.9044	337.9044	0.0474		339.0888
Total	**0.6605**	**2.9539**	**1.6842**	**3.1700e-003**		**0.0972**	**0.0972**		**0.0972**	**0.0972**		**337.9044**	**337.9044**	**0.0474**		**339.0888**

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1)

San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	154.58	1000sqft	3.55	154,581.00	0
Enclosed Parking with Elevator	139.50	1000sqft	3.20	139,500.00	0
Other Non-Asphalt Surfaces	54.90	1000sqft	1.26	54,900.00	0
City Park	0.57	Acre	0.57	24,829.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2026
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 1005 O'Brien Drive and 1320 Willow Road Project (Phase 1). Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Updated per project description. Phase 1 would include 154,657 SF of buildings, 139,500 SF parking garage, 54,900 SF of impervious surfaces, and 0.57 acres of landscaping.

Construction Phase - Updated schedule per applicant. Phase 1 would begin July 2023 and would be completed May 2025.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Demolition - 64,618 SF of building demolished.

Grading -

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - TO UPDATE. City Park represents landscaping area, no trips assumed.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use - Default rates assumed.

Water And Wastewater - Default rates assumed.

Solid Waste - City park represents landcaping area therefore no solid waste assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps - Diesel Emergency generator 600 KW

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	77,291.00	15,481.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	231,872.00	46,443.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaCoating	Area_Nonresidential_Exterior	77291	15481
tblAreaCoating	Area_Nonresidential_Interior	231872	46443
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

tblConstructionPhase	NumDays	230.00	380.00
tblConstructionPhase	NumDays	20.00	29.00
tblLandUse	LandUseSquareFeet	154,580.00	154,581.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	0.05	0.00
tblTripsAndVMT	HaulingTripNumber	294.00	360.00
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	HaulingTripNumber	0.00	240.00
tblTripsAndVMT	HaulingTripNumber	0.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	61.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00
tblTripsAndVMT	WorkerTripNumber	142.00	25.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblTripsAndVMT	WorkerTripNumber	28.00	5.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.4406	26.1425	20.4492	0.0505	8.4259	1.0334	9.4593	3.6159	0.9511	4.5670	0.0000	5,007.3879	5,007.3879	1.4384	0.1547	5,076.0554
2024	1.2197	10.7433	12.5122	0.0240	0.2461	0.4556	0.7017	0.0661	0.4319	0.4980	0.0000	2,295.3009	2,295.3009	0.4376	0.0257	2,313.8955
2025	11.7788	9.9911	12.4197	0.0239	0.2461	0.3951	0.6411	0.0661	0.3744	0.4405	0.0000	2,287.7774	2,287.7774	0.4339	0.0510	2,306.0874

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Maximum	**11.7788**	**26.1425**	**20.4492**	**0.0505**	**8.4259**	**1.0334**	**9.4593**	**3.6159**	**0.9511**	**4.5670**	**0.0000**	**5,007.3879**	**5,007.3879**	**1.4384**	**0.1547**	**5,076.0554**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	2.4406	26.1425	20.4492	0.0505	8.4259	1.0334	9.4593	3.6159	0.9511	4.5670	0.0000	5,007.3879	5,007.3879	1.4384	0.1547	5,076.0554
2024	1.2197	10.7433	12.5122	0.0240	0.2461	0.4556	0.7017	0.0661	0.4319	0.4980	0.0000	2,295.3009	2,295.3009	0.4376	0.0257	2,313.8955
2025	11.7788	9.9911	12.4197	0.0239	0.2461	0.3951	0.6411	0.0661	0.3744	0.4405	0.0000	2,287.7774	2,287.7774	0.4339	0.0510	2,306.0874
Maximum	**11.7788**	**26.1425**	**20.4492**	**0.0505**	**8.4259**	**1.0334**	**9.4593**	**3.6159**	**0.9511**	**4.5670**	**0.0000**	**5,007.3879**	**5,007.3879**	**1.4384**	**0.1547**	**5,076.0554**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

2.2 Overall Operational

Unmitigated Operational

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Energy	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Mobile	3.6750	3.5206	37.6894	0.0748	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,605.1060	7,605.1060	0.5247	0.3413	7,719.9413
Stationary	0.6605	2.9539	1.6842	3.1700e-003		0.0972	0.0972		0.0972	0.0972		337.9044	337.9044	0.0474		339.0888
Total	**7.9399**	**7.4950**	**40.2661**	**0.0841**	**9.1698**	**0.2229**	**9.3927**	**2.4411**	**0.2195**	**2.6606**		**9,167.2787**	**9,167.2787**	**0.5957**	**0.3638**	**9,290.5782**

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	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Energy	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Mobile	3.6750	3.5206	37.6894	0.0748	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,605.1060	7,605.1060	0.5247	0.3413	7,719.9413
Stationary	0.6605	2.9539	1.6842	3.1700e-003		0.0972	0.0972		0.0972	0.0972		337.9044	337.9044	0.0474		339.0888
Total	**7.9399**	**7.4950**	**40.2661**	**0.0841**	**9.1698**	**0.2229**	**9.3927**	**2.4411**	**0.2195**	**2.6606**		**9,167.2787**	**9,167.2787**	**0.5957**	**0.3638**	**9,290.5782**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	7/1/2023	8/11/2023	5	30	
2	Site Preparation	Site Preparation	8/14/2023	8/25/2023	5	10	
3	Grading	Grading	8/28/2023	10/6/2023	5	30	
4	Building Construction	Building Construction	10/9/2023	3/21/2025	5	380	
5	Paving	Paving	3/25/2025	5/2/2025	5	29	
6	Architectural Coating	Architectural Coating	4/7/2025	5/2/2025	5	20	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 60

Acres of Paving: 4.46

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 46,443; Non-Residential Outdoor: 15,481; Striped Parking Area: 11,664

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	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	1	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	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	4	15.00	2.00	360.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	10.00	2.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	3.00	240.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	25.00	5.00	150.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	5.00	5.00	40.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1202	0.0000	2.1202	0.3210	0.0000	0.3210			0.0000			0.0000
Off-Road	1.3957	12.8086	13.2792	0.0251		0.6008	0.6008		0.5630	0.5630		2,419.8777	2,419.8777	0.6202		2,435.3816
Total	**1.3957**	**12.8086**	**13.2792**	**0.0251**	**2.1202**	**0.6008**	**2.7210**	**0.3210**	**0.5630**	**0.8840**		**2,419.8777**	**2,419.8777**	**0.6202**		**2,435.3816**

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	0.0273	1.9189	0.6192	7.7100e-003	0.2090	0.0124	0.2213	0.0572	0.0118	0.0690		901.3416	901.3416	0.0904	0.1452	946.8815
Vendor	2.1200e-003	0.0959	0.0343	4.2000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.7000e-004	4.3500e-003		46.8520	46.8520	2.8800e-003	6.9100e-003	48.9832
Worker	0.0356	0.0229	0.3021	9.5000e-004	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		96.4430	96.4430	2.6100e-003	2.5700e-003	97.2732
Total	**0.0651**	**2.0377**	**0.9556**	**9.0800e-003**	**0.3457**	**0.0134**	**0.3591**	**0.0938**	**0.0128**	**0.1066**		**1,044.6366**	**1,044.6366**	**0.0958**	**0.1547**	**1,093.1379**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

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					2.1202	0.0000	2.1202	0.3210	0.0000	0.3210			0.0000			0.0000
Off-Road	1.3957	12.8086	13.2792	0.0251		0.6008	0.6008		0.5630	0.5630	0.0000	2,419.8777	2,419.8777	0.6202		2,435.3816
Total	**1.3957**	**12.8086**	**13.2792**	**0.0251**	**2.1202**	**0.6008**	**2.7210**	**0.3210**	**0.5630**	**0.8840**	**0.0000**	**2,419.8777**	**2,419.8777**	**0.6202**		**2,435.3816**

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	0.0273	1.9189	0.6192	7.7100e-003	0.2090	0.0124	0.2213	0.0572	0.0118	0.0690		901.3416	901.3416	0.0904	0.1452	946.8815
Vendor	2.1200e-003	0.0959	0.0343	4.2000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.7000e-004	4.3500e-003		46.8520	46.8520	2.8800e-003	6.9100e-003	48.9832
Worker	0.0356	0.0229	0.3021	9.5000e-004	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		96.4430	96.4430	2.6100e-003	2.5700e-003	97.2732
Total	**0.0651**	**2.0377**	**0.9556**	**9.0800e-003**	**0.3457**	**0.0134**	**0.3591**	**0.0938**	**0.0128**	**0.1066**		**1,044.6366**	**1,044.6366**	**0.0958**	**0.1547**	**1,093.1379**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.9874	10.1985	7.5690	0.0148		0.4726	0.4726		0.4348	0.4348		1,430.1537	1,430.1537	0.4625		1,441.7172
Total	**0.9874**	**10.1985**	**7.5690**	**0.0148**	**6.5523**	**0.4726**	**7.0249**	**3.3675**	**0.4348**	**3.8022**		**1,430.1537**	**1,430.1537**	**0.4625**		**1,441.7172**

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	0.0114	0.7996	0.2580	3.2100e-003	0.0871	5.1500e-003	0.0922	0.0238	4.9300e-003	0.0288		375.5590	375.5590	0.0376	0.0605	394.5339
Vendor	2.1200e-003	0.0959	0.0343	4.2000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.7000e-004	4.3500e-003		46.8520	46.8520	2.8800e-003	6.9100e-003	48.9832
Worker	0.0237	0.0153	0.2014	6.4000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		64.2953	64.2953	1.7400e-003	1.7100e-003	64.8488

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Total	**0.0372**	**0.9107**	**0.4937**	**4.2700e-003**	**0.1827**	**6.0200e-003**	**0.1888**	**0.0495**	**5.7500e-003**	**0.0553**		**486.7064**	**486.7064**	**0.0423**	**0.0691**	**508.3659**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.9874	10.1985	7.5690	0.0148		0.4726	0.4726		0.4348	0.4348	0.0000	1,430.1537	1,430.1537	0.4625		1,441.7172
Total	**0.9874**	**10.1985**	**7.5690**	**0.0148**	**6.5523**	**0.4726**	**7.0249**	**3.3675**	**0.4348**	**3.8022**	**0.0000**	**1,430.1537**	**1,430.1537**	**0.4625**		**1,441.7172**

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	0.0114	0.7996	0.2580	3.2100e-003	0.0871	5.1500e-003	0.0922	0.0238	4.9300e-003	0.0288		375.5590	375.5590	0.0376	0.0605	394.5339
Vendor	2.1200e-003	0.0959	0.0343	4.2000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.7000e-004	4.3500e-003		46.8520	46.8520	2.8800e-003	6.9100e-003	48.9832

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Worker	0.0237	0.0153	0.2014	6.4000e-004	0.0822	3.8000e-004	0.0825	0.0218	3.5000e-004	0.0221		64.2953	64.2953	1.7400e-003	1.7100e-003	64.8488
Total	**0.0372**	**0.9107**	**0.4937**	**4.2700e-003**	**0.1827**	**6.0200e-003**	**0.1888**	**0.0495**	**5.7500e-003**	**0.0553**		**486.7064**	**486.7064**	**0.0423**	**0.0691**	**508.3659**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1431	0.0000	8.1431	3.5393	0.0000	3.5393			0.0000			0.0000
Off-Road	2.3836	24.6965	19.6828	0.0438		1.0239	1.0239		0.9420	0.9420		4,239.7724	4,239.7724	1.3712		4,274.0531
Total	**2.3836**	**24.6965**	**19.6828**	**0.0438**	**8.1431**	**1.0239**	**9.1670**	**3.5393**	**0.9420**	**4.4812**		**4,239.7724**	**4,239.7724**	**1.3712**		**4,274.0531**

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	0.0182	1.2793	0.4128	5.1400e-003	0.1393	8.2400e-003	0.1476	0.0381	7.8800e-003	0.0460		600.8944	600.8944	0.0602	0.0968	631.2543

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Vendor	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0356	0.0229	0.3021	9.5000e-004	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		96.4430	96.4430	2.6100e-003	2.5700e-003	97.2732
Total	**0.0570**	**1.4460**	**0.7664**	**6.7200e-003**	**0.2828**	**9.5400e-003**	**0.2924**	**0.0766**	**9.1000e-003**	**0.0858**		**767.6154**	**767.6154**	**0.0672**	**0.1098**	**802.0023**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1431	0.0000	8.1431	3.5393	0.0000	3.5393			0.0000			0.0000
Off-Road	2.3836	24.6965	19.6828	0.0438		1.0239	1.0239		0.9420	0.9420	0.0000	4,239.7724	4,239.7724	1.3712		4,274.0531
Total	**2.3836**	**24.6965**	**19.6828**	**0.0438**	**8.1431**	**1.0239**	**9.1670**	**3.5393**	**0.9420**	**4.4812**	**0.0000**	**4,239.7724**	**4,239.7724**	**1.3712**		**4,274.0531**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	0.0182	1.2793	0.4128	5.1400e-003	0.1393	8.2400e-003	0.1476	0.0381	7.8800e-003	0.0460		600.8944	600.8944	0.0602	0.0968	631.2543
Vendor	3.1800e-003	0.1438	0.0515	6.3000e-004	0.0203	7.3000e-004	0.0210	5.8300e-003	7.0000e-004	6.5300e-003		70.2781	70.2781	4.3200e-003	0.0104	73.4748
Worker	0.0356	0.0229	0.3021	9.5000e-004	0.1232	5.7000e-004	0.1238	0.0327	5.2000e-004	0.0332		96.4430	96.4430	2.6100e-003	2.5700e-003	97.2732
Total	**0.0570**	**1.4460**	**0.7664**	**6.7200e-003**	**0.2828**	**9.5400e-003**	**0.2924**	**0.0766**	**9.1000e-003**	**0.0858**		**767.6154**	**767.6154**	**0.0672**	**0.1098**	**802.0023**

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	1.2352	11.1218	12.0020	0.0212		0.5148	0.5148		0.4883	0.4883		1,995.2688	1,995.2688	0.4268		2,005.9376
Total	**1.2352**	**11.1218**	**12.0020**	**0.0212**		**0.5148**	**0.5148**		**0.4883**	**0.4883**		**1,995.2688**	**1,995.2688**	**0.4268**		**2,005.9376**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	9.0000e-004	0.0631	0.0204	2.5000e-004	6.8700e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.6494	29.6494	2.9700e-003	4.7800e-003	31.1474
Vendor	5.3100e-003	0.2396	0.0858	1.0500e-003	0.0338	1.2200e-003	0.0350	9.7200e-003	1.1600e-003	0.0109		117.1301	117.1301	7.1900e-003	0.0173	122.4580
Worker	0.0593	0.0382	0.5036	1.5900e-003	0.2054	9.5000e-004	0.2063	0.0545	8.7000e-004	0.0554		160.7383	160.7383	4.3500e-003	4.2800e-003	162.1220
Total	**0.0655**	**0.3410**	**0.6097**	**2.8900e-003**	**0.2460**	**2.5800e-003**	**0.2486**	**0.0661**	**2.4200e-003**	**0.0685**		**307.5178**	**307.5178**	**0.0145**	**0.0263**	**315.7274**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2352	11.1218	12.0020	0.0212		0.5148	0.5148		0.4883	0.4883	0.0000	1,995.2688	1,995.2688	0.4268		2,005.9376
Total	**1.2352**	**11.1218**	**12.0020**	**0.0212**		**0.5148**	**0.5148**		**0.4883**	**0.4883**	**0.0000**	**1,995.2688**	**1,995.2688**	**0.4268**		**2,005.9376**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	9.0000e-004	0.0631	0.0204	2.5000e-004	6.8700e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.6494	29.6494	2.9700e-003	4.7800e-003	31.1474
Vendor	5.3100e-003	0.2396	0.0858	1.0500e-003	0.0338	1.2200e-003	0.0350	9.7200e-003	1.1600e-003	0.0109		117.1301	117.1301	7.1900e-003	0.0173	122.4580
Worker	0.0593	0.0382	0.5036	1.5900e-003	0.2054	9.5000e-004	0.2063	0.0545	8.7000e-004	0.0554		160.7383	160.7383	4.3500e-003	4.2800e-003	162.1220
Total	**0.0655**	**0.3410**	**0.6097**	**2.8900e-003**	**0.2460**	**2.5800e-003**	**0.2486**	**0.0661**	**2.4200e-003**	**0.0685**		**307.5178**	**307.5178**	**0.0145**	**0.0263**	**315.7274**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1572	10.4095	11.9321	0.0212		0.4531	0.4531		0.4295	0.4295		1,995.5913	1,995.5913	0.4232		2,006.1714
Total	**1.1572**	**10.4095**	**11.9321**	**0.0212**		**0.4531**	**0.4531**		**0.4295**	**0.4295**		**1,995.5913**	**1,995.5913**	**0.4232**		**2,006.1714**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	8.9000e-004	0.0622	0.0209	2.5000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.1406	29.1406	3.0500e-003	4.7000e-003	30.6177
Vendor	5.1200e-003	0.2373	0.0855	1.0300e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		115.0560	115.0560	7.3600e-003	0.0170	120.3037
Worker	0.0565	0.0342	0.4738	1.5400e-003	0.2054	9.0000e-004	0.2063	0.0545	8.3000e-004	0.0553		155.5129	155.5129	3.9500e-003	4.0000e-003	156.8027
Total	**0.0625**	**0.3337**	**0.5802**	**2.8200e-003**	**0.2461**	**2.5300e-003**	**0.2486**	**0.0661**	**2.3900e-003**	**0.0685**		**299.7095**	**299.7095**	**0.0144**	**0.0257**	**307.7241**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1572	10.4095	11.9321	0.0212		0.4531	0.4531		0.4295	0.4295	0.0000	1,995.5913	1,995.5913	0.4232		2,006.1714
Total	**1.1572**	**10.4095**	**11.9321**	**0.0212**		**0.4531**	**0.4531**		**0.4295**	**0.4295**	**0.0000**	**1,995.5913**	**1,995.5913**	**0.4232**		**2,006.1714**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	8.9000e-004	0.0622	0.0209	2.5000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		29.1406	29.1406	3.0500e-003	4.7000e-003	30.6177
Vendor	5.1200e-003	0.2373	0.0855	1.0300e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		115.0560	115.0560	7.3600e-003	0.0170	120.3037
Worker	0.0565	0.0342	0.4738	1.5400e-003	0.2054	9.0000e-004	0.2063	0.0545	8.3000e-004	0.0553		155.5129	155.5129	3.9500e-003	4.0000e-003	156.8027
Total	**0.0625**	**0.3337**	**0.5802**	**2.8200e-003**	**0.2461**	**2.5300e-003**	**0.2486**	**0.0661**	**2.3900e-003**	**0.0685**		**299.7095**	**299.7095**	**0.0144**	**0.0257**	**307.7241**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0780	9.6644	11.8662	0.0212		0.3926	0.3926		0.3721	0.3721		1,996.1138	1,996.1138	0.4197		2,006.6067
Total	**1.0780**	**9.6644**	**11.8662**	**0.0212**		**0.3926**	**0.3926**		**0.3721**	**0.3721**		**1,996.1138**	**1,996.1138**	**0.4197**		**2,006.6067**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	8.8000e-004	0.0611	0.0214	2.4000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		28.5465	28.5465	3.1200e-003	4.6100e-003	29.9981
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0541	0.0310	0.4467	1.4900e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		150.3166	150.3166	3.5900e-003	3.7600e-003	151.5258
Total	**0.0599**	**0.3267**	**0.5535**	**2.7300e-003**	**0.2461**	**2.4900e-003**	**0.2485**	**0.0661**	**2.3500e-003**	**0.0684**		**291.6636**	**291.6636**	**0.0142**	**0.0250**	**299.4807**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0780	9.6644	11.8662	0.0212		0.3926	0.3926		0.3721	0.3721	0.0000	1,996.1138	1,996.1138	0.4197		2,006.6067
Total	**1.0780**	**9.6644**	**11.8662**	**0.0212**		**0.3926**	**0.3926**		**0.3721**	**0.3721**	**0.0000**	**1,996.1138**	**1,996.1138**	**0.4197**		**2,006.6067**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Hauling	8.8000e-004	0.0611	0.0214	2.4000e-004	6.8800e-003	4.1000e-004	7.2800e-003	1.8800e-003	3.9000e-004	2.2700e-003		28.5465	28.5465	3.1200e-003	4.6100e-003	29.9981
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0541	0.0310	0.4467	1.4900e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		150.3166	150.3166	3.5900e-003	3.7600e-003	151.5258
Total	**0.0599**	**0.3267**	**0.5535**	**2.7300e-003**	**0.2461**	**2.4900e-003**	**0.2485**	**0.0661**	**2.3500e-003**	**0.0684**		**291.6636**	**291.6636**	**0.0142**	**0.0250**	**299.4807**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3432	3.2181	5.4667	8.5500e-003		0.1570	0.1570		0.1444	0.1444		827.5294	827.5294	0.2676		834.2204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3432**	**3.2181**	**5.4667**	**8.5500e-003**		**0.1570**	**0.1570**		**0.1444**	**0.1444**		**827.5294**	**827.5294**	**0.2676**		**834.2204**

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Category	lb/day										lb/day					
Hauling	3.0700e-003	0.2134	0.0748	8.5000e-004	0.0240	1.4200e-003	0.0255	6.5800e-003	1.3600e-003	7.9400e-003	99.7486	99.7486	0.0109	0.0161	104.8210
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109	112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0108	6.2000e-003	0.0893	3.0000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111	30.0633	30.0633	7.2000e-004	7.5000e-004	30.3052
Total	**0.0188**	**0.4542**	**0.2496**	**2.1500e-003**	**0.0989**	**2.8100e-003**	**0.1017**	**0.0272**	**2.6900e-003**	**0.0299**	**242.6125**	**242.6125**	**0.0191**	**0.0335**	**253.0829**

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	0.3432	3.2181	5.4667	8.5500e-003		0.1570	0.1570		0.1444	0.1444	0.0000	827.5294	827.5294	0.2676		834.2204
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.3432**	**3.2181**	**5.4667**	**8.5500e-003**		**0.1570**	**0.1570**		**0.1444**	**0.1444**	**0.0000**	**827.5294**	**827.5294**	**0.2676**		**834.2204**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0700e-003	0.2134	0.0748	8.5000e-004	0.0240	1.4200e-003	0.0255	6.5800e-003	1.3600e-003	7.9400e-003		99.7486	99.7486	0.0109	0.0161	104.8210
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0108	6.2000e-003	0.0893	3.0000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111		30.0633	30.0633	7.2000e-004	7.5000e-004	30.3052
Total	**0.0188**	**0.4542**	**0.2496**	**2.1500e-003**	**0.0989**	**2.8100e-003**	**0.1017**	**0.0272**	**2.6900e-003**	**0.0299**		**242.6125**	**242.6125**	**0.0191**	**0.0335**	**253.0829**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	11.2301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**11.4010**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0108	6.2000e-003	0.0893	3.0000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111		30.0633	30.0633	7.2000e-004	7.5000e-004	30.3052
Total	**0.0158**	**0.2408**	**0.1748**	**1.3000e-003**	**0.0749**	**1.3900e-003**	**0.0763**	**0.0206**	**1.3300e-003**	**0.0219**		**142.8638**	**142.8638**	**8.2300e-003**	**0.0174**	**148.2619**

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	11.2301					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**11.4010**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0108	6.2000e-003	0.0893	3.0000e-004	0.0411	1.7000e-004	0.0413	0.0109	1.6000e-004	0.0111		30.0633	30.0633	7.2000e-004	7.5000e-004	30.3052
Total	**0.0158**	**0.2408**	**0.1748**	**1.3000e-003**	**0.0749**	**1.3900e-003**	**0.0763**	**0.0206**	**1.3300e-003**	**0.0219**		**142.8638**	**142.8638**	**8.2300e-003**	**0.0174**	**148.2619**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.6750	3.5206	37.6894	0.0748	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,605.1060	7,605.1060	0.5247	0.3413	7,719.9413
Unmitigated	3.6750	3.5206	37.6894	0.0748	9.1698	0.0481	9.2179	2.4411	0.0447	2.4858		7,605.1060	7,605.1060	0.5247	0.3413	7,719.9413

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Research & Development	1,740.57	293.70	171.58	3,282,518	3,282,518
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	1,740.57	293.70	171.58	3,282,518	3,282,518

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
City Park	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Enclosed Parking with Elevator	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710
Other Non-Asphalt Surfaces	0.457911	0.074699	0.239011	0.149017	0.025897	0.006576	0.010546	0.001994	0.001422	0.000553	0.029236	0.000429	0.002710

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
NaturalGas Unmitigated	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	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
Research & Development	10405.6	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Total		**0.1122**	**1.0202**	**0.8569**	**6.1200e-003**		**0.0775**	**0.0775**		**0.0775**	**0.0775**		**1,224.1918**	**1,224.1918**	**0.0235**	**0.0224**	**1,231.4666**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	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
Research & Development	10.4056	0.1122	1.0202	0.8569	6.1200e-003		0.0775	0.0775		0.0775	0.0775		1,224.1918	1,224.1918	0.0235	0.0224	1,231.4666
Total		**0.1122**	**1.0202**	**0.8569**	**6.1200e-003**		**0.0775**	**0.0775**		**0.0775**	**0.0775**		**1,224.1918**	**1,224.1918**	**0.0235**	**0.0224**	**1,231.4666**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Mitigated	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Unmitigated	3.4921	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815

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	0.1107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3782					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Total	**3.4921**	**3.2000e-004**	**0.0356**	**0.0000**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**		**0.0765**	**0.0765**	**2.0000e-004**		**0.0815**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Architectural Coating	0.1107					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3782					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.2800e-003	3.2000e-004	0.0356	0.0000		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004		0.0765	0.0765	2.0000e-004		0.0815
Total	**3.4921**	**3.2000e-004**	**0.0356**	**0.0000**		**1.3000e-004**	**1.3000e-004**		**1.3000e-004**	**1.3000e-004**		**0.0765**	**0.0765**	**2.0000e-004**		**0.0815**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	50	805	0.73	Diesel

Boilers

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

User Defined Equipment

1005 O'Brien Drive and 1320 Willow Road Project (Phase 1) - San Mateo County, Winter

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

Equipment Type	Number

10.1 Stationary Sources

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					
Emergency Generator - Diesel	0.6605	2.9539	1.6842	3.1700e-003		0.0972	0.0972		0.0972	0.0972		337.9044	337.9044	0.0474		339.0888
Total	**0.6605**	**2.9539**	**1.6842**	**3.1700e-003**		**0.0972**	**0.0972**		**0.0972**	**0.0972**		**337.9044**	**337.9044**	**0.0474**		**339.0888**

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2)

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	73.82	1000sqft	1.69	73,817.00	0
Other Non-Asphalt Surfaces	21.86	1000sqft	0.50	21,863.00	0
City Park	0.37	Acre	0.37	16,117.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2027
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 1005 O'Brien Drive and 1320 Willow Road Project (Phase 2). Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Updated per project description. Phase 2 would include 73,817 SF of buildings, 21,863 SF of impervious surfaces, and 0.37 acres of landscaping.

Construction Phase - Updated schedule per applicant. Phase 2 would begin May 2025 and would be completed June 2026.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Demolition - 26,013 SF of building demolished.

Grading -

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - TO UPDATE. City Park represents landscaping area, no trips assumed.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use - Default rates assumed.

Water And Wastewater - Default rates assumed.

Solid Waste - City park represents landcaping area therefore no solid waste assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	220.00	230.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	6/4/2025	6/6/2025

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

tblConstructionPhase	PhaseEndDate	6/12/2025	7/4/2025
tblConstructionPhase	PhaseEndDate	4/16/2026	5/22/2026
tblConstructionPhase	PhaseEndDate	4/30/2026	6/12/2026
tblConstructionPhase	PhaseEndDate	5/14/2026	6/12/2026
tblConstructionPhase	PhaseStartDate	5/31/2025	6/2/2025
tblConstructionPhase	PhaseStartDate	6/5/2025	6/9/2025
tblConstructionPhase	PhaseStartDate	6/13/2025	7/7/2025
tblConstructionPhase	PhaseStartDate	4/17/2026	5/25/2026
tblConstructionPhase	PhaseStartDate	5/1/2026	5/25/2026
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

tblProjectCharacteristics	CH4IntensityFactor	0.033	0
tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	0.03	0.00
tblTripsAndVMT	HaulingTripNumber	118.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	25.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	75.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	18.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	40.00	25.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

2.1 Overall Construction

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

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					
2025	0.0912	0.8311	0.8830	1.8900e-003	0.1195	0.0328	0.1523	0.0499	0.0309	0.0808	0.0000	165.6977	165.6977	0.0321	2.7300e-003	167.3141
2026	0.2329	0.4986	0.6089	1.2100e-003	0.0132	0.0198	0.0330	3.5600e-003	0.0189	0.0224	0.0000	105.5870	105.5870	0.0190	1.3900e-003	106.4765
Maximum	**0.2329**	**0.8311**	**0.8830**	**1.8900e-003**	**0.1195**	**0.0328**	**0.1523**	**0.0499**	**0.0309**	**0.0808**	**0.0000**	**165.6977**	**165.6977**	**0.0321**	**2.7300e-003**	**167.3141**

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					
2025	0.0912	0.8311	0.8830	1.8900e-003	0.1195	0.0328	0.1523	0.0499	0.0309	0.0808	0.0000	165.6975	165.6975	0.0321	2.7300e-003	167.3140
2026	0.2329	0.4986	0.6089	1.2100e-003	0.0132	0.0198	0.0330	3.5600e-003	0.0189	0.0224	0.0000	105.5869	105.5869	0.0190	1.3900e-003	106.4764
Maximum	**0.2329**	**0.8311**	**0.8830**	**1.8900e-003**	**0.1195**	**0.0328**	**0.1523**	**0.0499**	**0.0309**	**0.0808**	**0.0000**	**165.6975**	**165.6975**	**0.0321**	**2.7300e-003**	**167.3140**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-5-2025	8-4-2025	0.3686	0.3686
2	8-5-2025	11-4-2025	0.3226	0.3226
3	11-5-2025	2-4-2026	0.3230	0.3230
4	2-5-2026	5-4-2026	0.3120	0.3120
5	5-5-2026	8-4-2026	0.2719	0.2719
		Highest	0.3686	0.3686

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	0.3289	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7200e-003	1.7200e-003	0.0000	0.0000	1.8300e-003
Energy	9.7800e-003	0.0889	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	99.7704	99.7704	1.8600e-003	1.7700e-003	100.3455
Mobile	0.2324	0.2102	2.2714	4.7800e-003	0.5749	3.0000e-003	0.5779	0.1536	2.7800e-003	0.1564	0.0000	441.3366	441.3366	0.0290	0.0191	447.7459
Waste						0.0000	0.0000		0.0000	0.0000	1.1388	0.0000	1.1388	0.0673	0.0000	2.8213
Water						0.0000	0.0000		0.0000	0.0000	11.5153	1.0774	12.5928	1.1827	0.0279	50.4833
Total	**0.5711**	**0.2991**	**2.3469**	**5.3100e-003**	**0.5749**	**9.7600e-003**	**0.5847**	**0.1536**	**9.5400e-003**	**0.1631**	**12.6541**	**542.1862**	**554.8402**	**1.2809**	**0.0488**	**601.3978**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

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	0.3289	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7200e-003	1.7200e-003	0.0000	0.0000	1.8300e-003
Energy	9.7800e-003	0.0889	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	99.7704	99.7704	1.8600e-003	1.7700e-003	100.3455
Mobile	0.2324	0.2102	2.2714	4.7800e-003	0.5749	3.0000e-003	0.5779	0.1536	2.7800e-003	0.1564	0.0000	441.3366	441.3366	0.0290	0.0191	447.7459
Waste						0.0000	0.0000		0.0000	0.0000	1.1388	0.0000	1.1388	0.0673	0.0000	2.8213
Water						0.0000	0.0000		0.0000	0.0000	11.5153	1.0774	12.5928	1.1827	0.0279	50.4833
Total	**0.5711**	**0.2991**	**2.3469**	**5.3100e-003**	**0.5749**	**9.7600e-003**	**0.5847**	**0.1536**	**9.5400e-003**	**0.1631**	**12.6541**	**542.1862**	**554.8402**	**1.2809**	**0.0488**	**601.3978**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/5/2025	5/30/2025	5	20	
2	Site Preparation	Site Preparation	6/2/2025	6/6/2025	5	5	

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

3	Grading	Grading	6/9/2025	7/4/2025	5	20	
4	Building Construction	Building Construction	7/7/2025	5/22/2026	5	230	
5	Paving	Paving	5/25/2026	6/12/2026	5	15	
6	Architectural Coating	Architectural Coating	5/25/2026	6/12/2026	5	15	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 110,726; Non-Residential Outdoor: 36,909; Striped Parking Area: 1,312

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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	3	12.00	0.00	120.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	2.00	25.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	15.00	3.00	80.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	25.00	5.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	5.00	5.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	1.9400e-003	0.0000	1.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Off-Road	0.0108	0.1024	0.0887	1.8000e-004		4.3700e-003	4.3700e-003		4.1000e-003	4.1000e-003	0.0000	15.6188	15.6188	3.5500e-003	0.0000	15.7076
Total	**0.0108**	**0.1024**	**0.0887**	**1.8000e-004**	**0.0128**	**4.3700e-003**	**0.0172**	**1.9400e-003**	**4.1000e-003**	**6.0400e-003**	**0.0000**	**15.6188**	**15.6188**	**3.5500e-003**	**0.0000**	**15.7076**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	9.1200e-003	3.2400e-003	4.0000e-005	1.0100e-003	6.0000e-005	1.0700e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.9355	3.9355	4.3000e-004	6.4000e-004	4.1356
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	2.0600e-003	1.0000e-005	9.4000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6566	0.6566	1.0000e-005	2.0000e-005	0.6616
Total	**3.7000e-004**	**9.2600e-003**	**5.3000e-003**	**5.0000e-005**	**1.9500e-003**	**6.0000e-005**	**2.0200e-003**	**5.3000e-004**	**6.0000e-005**	**6.0000e-004**	**0.0000**	**4.5921**	**4.5921**	**4.4000e-004**	**6.6000e-004**	**4.7972**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Fugitive Dust					0.0128	0.0000	0.0128	1.9400e-003	0.0000	1.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1024	0.0887	1.8000e-004		4.3700e-003	4.3700e-003		4.1000e-003	4.1000e-003	0.0000	15.6188	15.6188	3.5500e-003	0.0000	15.7075
Total	**0.0108**	**0.1024**	**0.0887**	**1.8000e-004**	**0.0128**	**4.3700e-003**	**0.0172**	**1.9400e-003**	**4.1000e-003**	**6.0400e-003**	**0.0000**	**15.6188**	**15.6188**	**3.5500e-003**	**0.0000**	**15.7075**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4000e-004	9.1200e-003	3.2400e-003	4.0000e-005	1.0100e-003	6.0000e-005	1.0700e-003	2.8000e-004	6.0000e-005	3.4000e-004	0.0000	3.9355	3.9355	4.3000e-004	6.4000e-004	4.1356
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.4000e-004	2.0600e-003	1.0000e-005	9.4000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.6566	0.6566	1.0000e-005	2.0000e-005	0.6616
Total	**3.7000e-004**	**9.2600e-003**	**5.3000e-003**	**5.0000e-005**	**1.9500e-003**	**6.0000e-005**	**2.0200e-003**	**5.3000e-004**	**6.0000e-005**	**6.0000e-004**	**0.0000**	**4.5921**	**4.5921**	**4.4000e-004**	**6.6000e-004**	**4.7972**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Category	tons/yr										MT/yr					
Fugitive Dust					0.0164	0.0000	0.0164	8.4200e-003	0.0000	8.4200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	0.0197	0.0130	3.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	2.5385	2.5385	8.2000e-004	0.0000	2.5591
Total	**1.9300e-003**	**0.0197**	**0.0130**	**3.0000e-005**	**0.0164**	**8.5000e-004**	**0.0172**	**8.4200e-003**	**7.8000e-004**	**9.2000e-003**	**0.0000**	**2.5385**	**2.5385**	**8.2000e-004**	**0.0000**	**2.5591**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.9000e-003	6.8000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8199	0.8199	9.0000e-005	1.3000e-004	0.8616
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1023	0.1023	1.0000e-005	2.0000e-005	0.1070
Worker	5.0000e-005	3.0000e-005	4.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1368	0.1368	0.0000	0.0000	0.1378
Total	**9.0000e-005**	**2.1600e-003**	**1.1900e-003**	**1.0000e-005**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**1.2000e-004**	**1.0000e-005**	**1.3000e-004**	**0.0000**	**1.0590**	**1.0590**	**1.0000e-004**	**1.5000e-004**	**1.1064**

Mitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0164	0.0000	0.0164	8.4200e-003	0.0000	8.4200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	0.0197	0.0130	3.0000e-005		8.5000e-004	8.5000e-004		7.8000e-004	7.8000e-004	0.0000	2.5385	2.5385	8.2000e-004	0.0000	2.5591
Total	**1.9300e-003**	**0.0197**	**0.0130**	**3.0000e-005**	**0.0164**	**8.5000e-004**	**0.0172**	**8.4200e-003**	**7.8000e-004**	**9.2000e-003**	**0.0000**	**2.5385**	**2.5385**	**8.2000e-004**	**0.0000**	**2.5591**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.9000e-003	6.8000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.2000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8199	0.8199	9.0000e-005	1.3000e-004	0.8616
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1023	0.1023	1.0000e-005	2.0000e-005	0.1070
Worker	5.0000e-005	3.0000e-005	4.3000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1368	0.1368	0.0000	0.0000	0.1378
Total	**9.0000e-005**	**2.1600e-003**	**1.1900e-003**	**1.0000e-005**	**4.4000e-004**	**1.0000e-005**	**4.5000e-004**	**1.2000e-004**	**1.0000e-005**	**1.3000e-004**	**0.0000**	**1.0590**	**1.0590**	**1.0000e-004**	**1.5000e-004**	**1.1064**

3.4 Grading - 2025

Unmitigated Construction On-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1265	0.1010	2.3000e-004		5.1600e-003	5.1600e-003		4.7400e-003	4.7400e-003	0.0000	20.6121	20.6121	6.6700e-003	0.0000	20.7788
Total	**0.0126**	**0.1265**	**0.1010**	**2.3000e-004**	**0.0708**	**5.1600e-003**	**0.0760**	**0.0343**	**4.7400e-003**	**0.0390**	**0.0000**	**20.6121**	**20.6121**	**6.6700e-003**	**0.0000**	**20.7788**

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	9.0000e-005	6.0800e-003	2.1600e-003	2.0000e-005	6.7000e-004	4.0000e-005	7.1000e-004	1.8000e-004	4.0000e-005	2.2000e-004	0.0000	2.6236	2.6236	2.9000e-004	4.2000e-004	2.7571
Vendor	3.0000e-005	1.3800e-003	5.0000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6138	0.6138	4.0000e-005	9.0000e-005	0.6418
Worker	2.9000e-004	1.7000e-004	2.5800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	0.0000	3.2000e-004	0.0000	0.8207	0.8207	2.0000e-005	2.0000e-005	0.8270
Total	**4.1000e-004**	**7.6300e-003**	**5.2400e-003**	**4.0000e-005**	**2.0500e-003**	**6.0000e-005**	**2.1000e-003**	**5.5000e-004**	**5.0000e-005**	**6.0000e-004**	**0.0000**	**4.0581**	**4.0581**	**3.5000e-004**	**5.3000e-004**	**4.2258**

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1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

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					0.0708	0.0000	0.0708	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0126	0.1265	0.1010	2.3000e-004		5.1600e-003	5.1600e-003		4.7400e-003	4.7400e-003	0.0000	20.6121	20.6121	6.6700e-003	0.0000	20.7787
Total	**0.0126**	**0.1265**	**0.1010**	**2.3000e-004**	**0.0708**	**5.1600e-003**	**0.0760**	**0.0343**	**4.7400e-003**	**0.0390**	**0.0000**	**20.6121**	**20.6121**	**6.6700e-003**	**0.0000**	**20.7787**

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	9.0000e-005	6.0800e-003	2.1600e-003	2.0000e-005	6.7000e-004	4.0000e-005	7.1000e-004	1.8000e-004	4.0000e-005	2.2000e-004	0.0000	2.6236	2.6236	2.9000e-004	4.2000e-004	2.7571
Vendor	3.0000e-005	1.3800e-003	5.0000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6138	0.6138	4.0000e-005	9.0000e-005	0.6418
Worker	2.9000e-004	1.7000e-004	2.5800e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	0.0000	3.2000e-004	0.0000	0.8207	0.8207	2.0000e-005	2.0000e-005	0.8270
Total	**4.1000e-004**	**7.6300e-003**	**5.2400e-003**	**4.0000e-005**	**2.0500e-003**	**6.0000e-005**	**2.1000e-003**	**5.5000e-004**	**5.0000e-005**	**6.0000e-004**	**0.0000**	**4.0581**	**4.0581**	**3.5000e-004**	**5.3000e-004**	**4.2258**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

3.5 Building Construction - 2025

Unmitigated Construction 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	0.0616	0.5438	0.6346	1.1800e-003		0.0221	0.0221		0.0210	0.0210	0.0000	100.5489	100.5489	0.0194	0.0000	101.0340
Total	**0.0616**	**0.5438**	**0.6346**	**1.1800e-003**		**0.0221**	**0.0221**		**0.0210**	**0.0210**	**0.0000**	**100.5489**	**100.5489**	**0.0194**	**0.0000**	**101.0340**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	3.1700e-003	1.1300e-003	1.0000e-005	3.5000e-004	2.0000e-005	3.7000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.3689	1.3689	1.5000e-004	2.2000e-004	1.4385
Vendor	3.2000e-004	0.0148	5.3800e-003	6.0000e-005	2.0900e-003	8.0000e-005	2.1700e-003	6.0000e-004	7.0000e-005	6.8000e-004	0.0000	6.5467	6.5467	4.4000e-004	9.7000e-004	6.8459
Worker	3.1200e-003	1.8300e-003	0.0275	1.0000e-004	0.0126	6.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4000e-003	0.0000	8.7546	8.7546	2.0000e-004	2.1000e-004	8.8211
Total	**3.4900e-003**	**0.0198**	**0.0340**	**1.7000e-004**	**0.0150**	**1.6000e-004**	**0.0152**	**4.0500e-003**	**1.4000e-004**	**4.2000e-003**	**0.0000**	**16.6702**	**16.6702**	**7.9000e-004**	**1.4000e-003**	**17.1054**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

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	0.0616	0.5438	0.6346	1.1800e-003		0.0221	0.0221		0.0210	0.0210	0.0000	100.5488	100.5488	0.0194	0.0000	101.0339
Total	**0.0616**	**0.5438**	**0.6346**	**1.1800e-003**		**0.0221**	**0.0221**		**0.0210**	**0.0210**	**0.0000**	**100.5488**	**100.5488**	**0.0194**	**0.0000**	**101.0339**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	3.1700e-003	1.1300e-003	1.0000e-005	3.5000e-004	2.0000e-005	3.7000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.3689	1.3689	1.5000e-004	2.2000e-004	1.4385
Vendor	3.2000e-004	0.0148	5.3800e-003	6.0000e-005	2.0900e-003	8.0000e-005	2.1700e-003	6.0000e-004	7.0000e-005	6.8000e-004	0.0000	6.5467	6.5467	4.4000e-004	9.7000e-004	6.8459
Worker	3.1200e-003	1.8300e-003	0.0275	1.0000e-004	0.0126	6.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4000e-003	0.0000	8.7546	8.7546	2.0000e-004	2.1000e-004	8.8211
Total	**3.4900e-003**	**0.0198**	**0.0340**	**1.7000e-004**	**0.0150**	**1.6000e-004**	**0.0152**	**4.0500e-003**	**1.4000e-004**	**4.2000e-003**	**0.0000**	**16.6702**	**16.6702**	**7.9000e-004**	**1.4000e-003**	**17.1054**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0491	0.4333	0.5057	9.4000e-004		0.0176	0.0176		0.0168	0.0168	0.0000	80.1249	80.1249	0.0155	0.0000	80.5115
Total	**0.0491**	**0.4333**	**0.5057**	**9.4000e-004**		**0.0176**	**0.0176**		**0.0168**	**0.0168**	**0.0000**	**80.1249**	**80.1249**	**0.0155**	**0.0000**	**80.5115**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.4800e-003	9.2000e-004	1.0000e-005	2.8000e-004	2.0000e-005	3.0000e-004	8.0000e-005	2.0000e-005	9.0000e-005	0.0000	1.0683	1.0683	1.2000e-004	1.7000e-004	1.1228
Vendor	2.5000e-004	0.0116	4.3000e-003	5.0000e-005	1.6700e-003	6.0000e-005	1.7300e-003	4.8000e-004	6.0000e-005	5.4000e-004	0.0000	5.1155	5.1155	3.6000e-004	7.6000e-004	5.3498
Worker	2.3900e-003	1.3400e-003	0.0208	7.0000e-005	0.0100	4.0000e-005	0.0101	2.6700e-003	4.0000e-005	2.7100e-003	0.0000	6.7750	6.7750	1.4000e-004	1.6000e-004	6.8252
Total	**2.6800e-003**	**0.0154**	**0.0261**	**1.3000e-004**	**0.0120**	**1.2000e-004**	**0.0121**	**3.2300e-003**	**1.2000e-004**	**3.3400e-003**	**0.0000**	**12.9588**	**12.9588**	**6.2000e-004**	**1.0900e-003**	**13.2977**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

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	0.0491	0.4333	0.5057	9.4000e-004		0.0176	0.0176		0.0168	0.0168	0.0000	80.1248	80.1248	0.0155	0.0000	80.5114
Total	**0.0491**	**0.4333**	**0.5057**	**9.4000e-004**		**0.0176**	**0.0176**		**0.0168**	**0.0168**	**0.0000**	**80.1248**	**80.1248**	**0.0155**	**0.0000**	**80.5114**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	2.4800e-003	9.2000e-004	1.0000e-005	2.8000e-004	2.0000e-005	3.0000e-004	8.0000e-005	2.0000e-005	9.0000e-005	0.0000	1.0683	1.0683	1.2000e-004	1.7000e-004	1.1228
Vendor	2.5000e-004	0.0116	4.3000e-003	5.0000e-005	1.6700e-003	6.0000e-005	1.7300e-003	4.8000e-004	6.0000e-005	5.4000e-004	0.0000	5.1155	5.1155	3.6000e-004	7.6000e-004	5.3498
Worker	2.3900e-003	1.3400e-003	0.0208	7.0000e-005	0.0100	4.0000e-005	0.0101	2.6700e-003	4.0000e-005	2.7100e-003	0.0000	6.7750	6.7750	1.4000e-004	1.6000e-004	6.8252
Total	**2.6800e-003**	**0.0154**	**0.0261**	**1.3000e-004**	**0.0120**	**1.2000e-004**	**0.0121**	**3.2300e-003**	**1.2000e-004**	**3.3400e-003**	**0.0000**	**12.9588**	**12.9588**	**6.2000e-004**	**1.0900e-003**	**13.2977**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9700e-003	0.0367	0.0607	9.0000e-005		1.7000e-003	1.7000e-003		1.5700e-003	1.5700e-003	0.0000	8.2035	8.2035	2.6000e-003	0.0000	8.2684
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9700e-003**	**0.0367**	**0.0607**	**9.0000e-005**		**1.7000e-003**	**1.7000e-003**		**1.5700e-003**	**1.5700e-003**	**0.0000**	**8.2035**	**8.2035**	**2.6000e-003**	**0.0000**	**8.2684**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.1200e-003	4.1000e-004	0.0000	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4818	0.4818	6.0000e-005	8.0000e-005	0.5063
Vendor	4.0000e-005	1.7100e-003	6.3000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7523	0.7523	5.0000e-005	1.1000e-004	0.7867
Worker	7.0000e-005	4.0000e-005	6.1000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1993	0.1993	0.0000	0.0000	0.2007
Total	**1.3000e-004**	**2.8700e-003**	**1.6500e-003**	**1.0000e-005**	**6.7000e-004**	**2.0000e-005**	**6.8000e-004**	**1.8000e-004**	**2.0000e-005**	**2.0000e-004**	**0.0000**	**1.4333**	**1.4333**	**1.1000e-004**	**1.9000e-004**	**1.4938**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

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	3.9700e-003	0.0367	0.0607	9.0000e-005		1.7000e-003	1.7000e-003		1.5700e-003	1.5700e-003	0.0000	8.2035	8.2035	2.6000e-003	0.0000	8.2684
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.9700e-003**	**0.0367**	**0.0607**	**9.0000e-005**		**1.7000e-003**	**1.7000e-003**		**1.5700e-003**	**1.5700e-003**	**0.0000**	**8.2035**	**8.2035**	**2.6000e-003**	**0.0000**	**8.2684**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	1.1200e-003	4.1000e-004	0.0000	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4818	0.4818	6.0000e-005	8.0000e-005	0.5063
Vendor	4.0000e-005	1.7100e-003	6.3000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7523	0.7523	5.0000e-005	1.1000e-004	0.7867
Worker	7.0000e-005	4.0000e-005	6.1000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1993	0.1993	0.0000	0.0000	0.2007

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Total	**1.3000e-004**	**2.8700e-003**	**1.6500e-003**	**1.0000e-005**	**6.7000e-004**	**2.0000e-005**	**6.8000e-004**	**1.8000e-004**	**2.0000e-005**	**2.0000e-004**	**0.0000**	**1.4333**	**1.4333**	**1.1000e-004**	**1.9000e-004**	**1.4938**

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	8.5900e-003	0.0136	2.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	1.9149	1.9149	1.0000e-004	0.0000	1.9176
Total	**0.1769**	**8.5900e-003**	**0.0136**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**	**0.0000**	**1.9149**	**1.9149**	**1.0000e-004**	**0.0000**	**1.9176**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.7100e-003	6.3000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7523	0.7523	5.0000e-005	1.1000e-004	0.7867

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Worker	7.0000e-005	4.0000e-005	6.1000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1993	0.1993	0.0000	0.0000	0.2007
Total	**1.1000e-004**	**1.7500e-003**	**1.2400e-003**	**1.0000e-005**	**5.4000e-004**	**1.0000e-005**	**5.5000e-004**	**1.5000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.9516**	**0.9516**	**5.0000e-005**	**1.1000e-004**	**0.9875**

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	0.1756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2800e-003	8.5900e-003	0.0136	2.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	1.9149	1.9149	1.0000e-004	0.0000	1.9176
Total	**0.1769**	**8.5900e-003**	**0.0136**	**2.0000e-005**		**3.9000e-004**	**3.9000e-004**		**3.9000e-004**	**3.9000e-004**	**0.0000**	**1.9149**	**1.9149**	**1.0000e-004**	**0.0000**	**1.9176**

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Vendor	4.0000e-005	1.7100e-003	6.3000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.5000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.7523	0.7523	5.0000e-005	1.1000e-004	0.7867
Worker	7.0000e-005	4.0000e-005	6.1000e-004	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.1993	0.1993	0.0000	0.0000	0.2007
Total	**1.1000e-004**	**1.7500e-003**	**1.2400e-003**	**1.0000e-005**	**5.4000e-004**	**1.0000e-005**	**5.5000e-004**	**1.5000e-004**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**0.9516**	**0.9516**	**5.0000e-005**	**1.1000e-004**	**0.9875**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2324	0.2102	2.2714	4.7800e-003	0.5749	3.0000e-003	0.5779	0.1536	2.7800e-003	0.1564	0.0000	441.3366	441.3366	0.0290	0.0191	447.7459
Unmitigated	0.2324	0.2102	2.2714	4.7800e-003	0.5749	3.0000e-003	0.5779	0.1536	2.7800e-003	0.1564	0.0000	441.3366	441.3366	0.0290	0.0191	447.7459

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Research & Development	831.18	140.25	81.94	1,567,510	1,567,510

Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	831.18	140.25	81.94	1,567,510	1,567,510

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763
City Park	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763
Other Non-Asphalt Surfaces	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.9853	2.9853	0.0000	0.0000	2.9853
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.9853	2.9853	0.0000	0.0000	2.9853
NaturalGas Mitigated	9.7800e-003	0.0889	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	96.7851	96.7851	1.8600e-003	1.7700e-003	97.3602
NaturalGas Unmitigated	9.7800e-003	0.0889	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	96.7851	96.7851	1.8600e-003	1.7700e-003	97.3602

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Research & Development	1.81368e+006	9.7800e-003	0.0889	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	96.7851	96.7851	1.8600e-003	1.7700e-003	97.3602
Total		**9.7800e-003**	**0.0889**	**0.0747**	**5.3000e-004**		**6.7600e-003**	**6.7600e-003**		**6.7600e-003**	**6.7600e-003**	**0.0000**	**96.7851**	**96.7851**	**1.8600e-003**	**1.7700e-003**	**97.3602**

Mitigated

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

	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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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
Research & Development	1.81368e+006	9.7800e-003	0.0889	0.0747	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	96.7851	96.7851	1.8600e-003	1.7700e-003	97.3602
Total		**9.7800e-003**	**0.0889**	**0.0747**	**5.3000e-004**		**6.7600e-003**	**6.7600e-003**		**6.7600e-003**	**6.7600e-003**	**0.0000**	**96.7851**	**96.7851**	**1.8600e-003**	**1.7700e-003**	**97.3602**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	548460	2.9853	0.0000	0.0000	2.9853
Total		**2.9853**	**0.0000**	**0.0000**	**2.9853**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	548460	2.9853	0.0000	0.0000	2.9853
Total		**2.9853**	**0.0000**	**0.0000**	**2.9853**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3289	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7200e-003	1.7200e-003	0.0000	0.0000	1.8300e-003
Unmitigated	0.3289	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7200e-003	1.7200e-003	0.0000	0.0000	1.8300e-003

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2899					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7200e-003	1.7200e-003	0.0000	0.0000	1.8300e-003
Total	**0.3289**	**1.0000e-005**	**8.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7200e-003**	**1.7200e-003**	**0.0000**	**0.0000**	**1.8300e-003**

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	0.0390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2899					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Landscaping	8.0000e-005	1.0000e-005	8.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7200e-003	1.7200e-003	0.0000	0.0000	1.8300e-003
Total	**0.3289**	**1.0000e-005**	**8.8000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7200e-003**	**1.7200e-003**	**0.0000**	**0.0000**	**1.8300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.5928	1.1827	0.0279	50.4833
Unmitigated	12.5928	1.1827	0.0279	50.4833

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

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

City Park	0 / 0.440848	8.4000e-003	0.0000	0.0000	8.4000e-003
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	36.2968 / 0	12.5844	1.1827	0.0279	50.4749
Total		**12.5928**	**1.1827**	**0.0279**	**50.4833**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.440848	8.4000e-003	0.0000	0.0000	8.4000e-003
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Research & Development	36.2968 / 0	12.5844	1.1827	0.0279	50.4749
Total		**12.5928**	**1.1827**	**0.0279**	**50.4833**

8.0 Waste Detail

8.1 Mitigation Measures Waste

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.1388	0.0673	0.0000	2.8213
Unmitigated	1.1388	0.0673	0.0000	2.8213

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	5.61	1.1388	0.0673	0.0000	2.8213
Total		**1.1388**	**0.0673**	**0.0000**	**2.8213**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Research & Development	5.61	1.1388	0.0673	0.0000	2.8213
Total		**1.1388**	**0.0673**	**0.0000**	**2.8213**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Annual

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

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2)

San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	73.82	1000sqft	1.69	73,817.00	0
Other Non-Asphalt Surfaces	21.86	1000sqft	0.50	21,863.00	0
City Park	0.37	Acre	0.37	16,117.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2027
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 1005 O'Brien Drive and 1320 Willow Road Project (Phase 2). Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Updated per project description. Phase 2 would include 73,817 SF of buildings, 21,863 SF of impervious surfaces, and 0.37 acres of landscaping.

Construction Phase - Updated schedule per applicant. Phase 2 would begin May 2025 and would be completed June 2026.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Demolition - 26,013 SF of building demolished.

Grading -

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - TO UPDATE. City Park represents landscaping area, no trips assumed.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use - Default rates assumed.

Water And Wastewater - Default rates assumed.

Solid Waste - City park represents landcaping area therefore no solid waste assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	220.00	230.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	6/4/2025	6/6/2025
tblConstructionPhase	PhaseEndDate	6/12/2025	7/4/2025

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

tblConstructionPhase	PhaseEndDate	4/16/2026	5/22/2026
tblConstructionPhase	PhaseEndDate	4/30/2026	6/12/2026
tblConstructionPhase	PhaseEndDate	5/14/2026	6/12/2026
tblConstructionPhase	PhaseStartDate	5/31/2025	6/2/2025
tblConstructionPhase	PhaseStartDate	6/5/2025	6/9/2025
tblConstructionPhase	PhaseStartDate	6/13/2025	7/7/2025
tblConstructionPhase	PhaseStartDate	4/17/2026	5/25/2026
tblConstructionPhase	PhaseStartDate	5/1/2026	5/25/2026
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	0.03	0.00
tblTripsAndVMT	HaulingTripNumber	118.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	25.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	75.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	18.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	40.00	25.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	1.3009	13.3861	10.6306	0.0275	7.2958	0.5210	7.8168	3.4823	0.4795	3.9619	0.0000	2,724.2649	2,724.2649	0.7729	0.0716	2,761.0586
2026	24.1494	8.7860	10.4405	0.0212	0.2449	0.3476	0.5925	0.0658	0.3308	0.3965	0.0000	2,019.7880	2,019.7880	0.4216	0.0453	2,035.3789
Maximum	**24.1494**	**13.3861**	**10.6306**	**0.0275**	**7.2958**	**0.5210**	**7.8168**	**3.4823**	**0.4795**	**3.9619**	**0.0000**	**2,724.2649**	**2,724.2649**	**0.7729**	**0.0716**	**2,761.0586**

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					
2025	1.3009	13.3861	10.6306	0.0275	7.2958	0.5210	7.8168	3.4823	0.4795	3.9619	0.0000	2,724.2649	2,724.2649	0.7729	0.0716	2,761.0586
2026	24.1494	8.7860	10.4405	0.0212	0.2449	0.3476	0.5925	0.0658	0.3308	0.3965	0.0000	2,019.7880	2,019.7880	0.4216	0.0453	2,035.3789
Maximum	**24.1494**	**13.3861**	**10.6306**	**0.0275**	**7.2958**	**0.5210**	**7.8168**	**3.4823**	**0.4795**	**3.9619**	**0.0000**	**2,724.2649**	**2,724.2649**	**0.7729**	**0.0716**	**2,761.0586**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Energy	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Mobile	1.8168	1.3984	16.1142	0.0364	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,701.5553	3,701.5553	0.2207	0.1453	3,750.3683
Total	**3.6730**	**1.8856**	**16.5332**	**0.0393**	**4.3793**	**0.0590**	**4.4382**	**1.1659**	**0.0574**	**1.2233**		**4,286.1641**	**4,286.1641**	**0.2319**	**0.1560**	**4,338.4524**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Energy	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Mobile	1.8168	1.3984	16.1142	0.0364	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,701.5553	3,701.5553	0.2207	0.1453	3,750.3683

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Total	3.6730	1.8856	16.5332	0.0393	4.3793	0.0590	4.4382	1.1659	0.0574	1.2233		4,286.1641	4,286.1641	0.2319	0.1560	4,338.4524

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/5/2025	5/30/2025	5	20	
2	Site Preparation	Site Preparation	6/2/2025	6/6/2025	5	5	
3	Grading	Grading	6/9/2025	7/4/2025	5	20	
4	Building Construction	Building Construction	7/7/2025	5/22/2026	5	230	
5	Paving	Paving	5/25/2026	6/12/2026	5	15	
6	Architectural Coating	Architectural Coating	5/25/2026	6/12/2026	5	15	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 110,726; Non-Residential Outdoor: 36,909; Striped Parking Area: 1,312

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Cement and Mortar Mixers	1	6.00	9	0.56

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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	3	12.00	0.00	120.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	2.00	25.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	15.00	3.00	80.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	25.00	5.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	5.00	5.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Architectural Coating	1	5.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT	

3.1 Mitigation Measures Construction

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2803	0.0000	1.2803	0.1939	0.0000	0.1939			0.0000			0.0000
Off-Road	1.0753	10.2356	8.8722	0.0179		0.4371	0.4371		0.4095	0.4095		1,721.6816	1,721.6816	0.3912		1,731.4621
Total	**1.0753**	**10.2356**	**8.8722**	**0.0179**	**1.2803**	**0.4371**	**1.7174**	**0.1939**	**0.4095**	**0.6034**		**1,721.6816**	**1,721.6816**	**0.3912**		**1,731.4621**

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	0.0139	0.8800	0.3241	3.6800e-003	0.1045	6.1800e-003	0.1107	0.0286	5.9100e-003	0.0345		433.7400	433.7400	0.0475	0.0700	455.7926
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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Worker	0.0235	0.0121	0.2141	7.5000e-004	0.0986	4.1000e-004	0.0990	0.0262	3.8000e-004	0.0265		76.2982	76.2982	1.5100e-003	1.5700e-003	76.8039
Total	**0.0374**	**0.8921**	**0.5382**	**4.4300e-003**	**0.2031**	**6.5900e-003**	**0.2097**	**0.0548**	**6.2900e-003**	**0.0611**		**510.0382**	**510.0382**	**0.0490**	**0.0716**	**532.5966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2803	0.0000	1.2803	0.1939	0.0000	0.1939			0.0000			0.0000
Off-Road	1.0753	10.2356	8.8722	0.0179		0.4371	0.4371		0.4095	0.4095	0.0000	1,721.6816	1,721.6816	0.3912		1,731.4621
Total	**1.0753**	**10.2356**	**8.8722**	**0.0179**	**1.2803**	**0.4371**	**1.7174**	**0.1939**	**0.4095**	**0.6034**	**0.0000**	**1,721.6816**	**1,721.6816**	**0.3912**		**1,731.4621**

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	0.0139	0.8800	0.3241	3.6800e-003	0.1045	6.1800e-003	0.1107	0.0286	5.9100e-003	0.0345		433.7400	433.7400	0.0475	0.0700	455.7926

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

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	0.0235	0.0121	0.2141	7.5000e-004	0.0986	4.1000e-004	0.0990	0.0262	3.8000e-004	0.0265		76.2982	76.2982	1.5100e-003	1.5700e-003	76.8039
Total	**0.0374**	**0.8921**	**0.5382**	**4.4300e-003**	**0.2031**	**6.5900e-003**	**0.2097**	**0.0548**	**6.2900e-003**	**0.0611**		**510.0382**	**510.0382**	**0.0490**	**0.0716**	**532.5966**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136		1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**6.5523**	**0.3408**	**6.8932**	**3.3675**	**0.3136**	**3.6810**		**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Hauling	0.0116	0.7333	0.2701	3.0700e-003	0.0871	5.1500e-003	0.0923	0.0239	4.9200e-003	0.0288		361.4500	361.4500	0.0396	0.0584	379.8272
Vendor	2.0300e-003	0.0891	0.0332	4.0000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.6000e-004	4.3500e-003		45.0913	45.0913	3.0100e-003	6.6600e-003	47.1505
Worker	0.0196	0.0101	0.1784	6.3000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.2000e-004	0.0221		63.5818	63.5818	1.2600e-003	1.3100e-003	64.0033
Total	**0.0332**	**0.8325**	**0.4817**	**4.1000e-003**	**0.1828**	**5.9900e-003**	**0.1888**	**0.0495**	**5.7000e-003**	**0.0552**		**470.1232**	**470.1232**	**0.0438**	**0.0663**	**490.9810**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136	0.0000	1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**6.5523**	**0.3408**	**6.8932**	**3.3675**	**0.3136**	**3.6810**	**0.0000**	**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Category	lb/day										lb/day					
Hauling	0.0116	0.7333	0.2701	3.0700e-003	0.0871	5.1500e-003	0.0923	0.0239	4.9200e-003	0.0288	361.4500	361.4500	0.0396	0.0584	379.8272	
Vendor	2.0300e-003	0.0891	0.0332	4.0000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.6000e-004	4.3500e-003	45.0913	45.0913	3.0100e-003	6.6600e-003	47.1505	
Worker	0.0196	0.0101	0.1784	6.3000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.2000e-004	0.0221	63.5818	63.5818	1.2600e-003	1.3100e-003	64.0033	
Total	**0.0332**	**0.8325**	**0.4817**	**4.1000e-003**	**0.1828**	**5.9900e-003**	**0.1888**	**0.0495**	**5.7000e-003**	**0.0552**	**470.1232**	**470.1232**	**0.0438**	**0.0663**	**490.9810**	

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2592	12.6507	10.0972	0.0235		0.5157	0.5157		0.4744	0.4744		2,272.0952	2,272.0952	0.7348		2,290.4662
Total	**1.2592**	**12.6507**	**10.0972**	**0.0235**	**7.0826**	**0.5157**	**7.5983**	**3.4247**	**0.4744**	**3.8992**		**2,272.0952**	**2,272.0952**	**0.7348**		**2,290.4662**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.2900e-003	0.5866	0.2161	2.4500e-003	0.0697	4.1200e-003	0.0738	0.0191	3.9400e-003	0.0230		289.1600	289.1600	0.0316	0.0467	303.8618
Vendor	3.0400e-003	0.1336	0.0498	6.0000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5300e-003		67.6370	67.6370	4.5200e-003	9.9900e-003	70.7258
Worker	0.0294	0.0151	0.2676	9.4000e-004	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		95.3728	95.3728	1.8900e-003	1.9600e-003	96.0049
Total	**0.0417**	**0.7354**	**0.5335**	**3.9900e-003**	**0.2132**	**5.3700e-003**	**0.2186**	**0.0576**	**5.1200e-003**	**0.0627**		**452.1698**	**452.1698**	**0.0381**	**0.0586**	**470.5924**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2592	12.6507	10.0972	0.0235		0.5157	0.5157		0.4744	0.4744	0.0000	2,272.0952	2,272.0952	0.7348		2,290.4662
Total	**1.2592**	**12.6507**	**10.0972**	**0.0235**	**7.0826**	**0.5157**	**7.5983**	**3.4247**	**0.4744**	**3.8992**	**0.0000**	**2,272.0952**	**2,272.0952**	**0.7348**		**2,290.4662**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.2900e-003	0.5866	0.2161	2.4500e-003	0.0697	4.1200e-003	0.0738	0.0191	3.9400e-003	0.0230		289.1600	289.1600	0.0316	0.0467	303.8618
Vendor	3.0400e-003	0.1336	0.0498	6.0000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5300e-003		67.6370	67.6370	4.5200e-003	9.9900e-003	70.7258
Worker	0.0294	0.0151	0.2676	9.4000e-004	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		95.3728	95.3728	1.8900e-003	1.9600e-003	96.0049
Total	**0.0417**	**0.7354**	**0.5335**	**3.9900e-003**	**0.2132**	**5.3700e-003**	**0.2186**	**0.0576**	**5.1200e-003**	**0.0627**		**452.1698**	**452.1698**	**0.0381**	**0.0586**	**470.5924**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285		1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**		**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.6000e-004	0.0478	0.0176	2.0000e-004	5.6800e-003	3.4000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8800e-003		23.5728	23.5728	2.5800e-003	3.8100e-003	24.7713
Vendor	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	0.0489	0.0252	0.4460	1.5700e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		158.9546	158.9546	3.1500e-003	3.2700e-003	160.0082
Total	**0.0548**	**0.2957**	**0.5466**	**2.7700e-003**	**0.2449**	**2.4100e-003**	**0.2473**	**0.0658**	**2.2700e-003**	**0.0680**		**295.2557**	**295.2557**	**0.0133**	**0.0237**	**302.6558**

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	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285	0.0000	1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**	**0.0000**	**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.6000e-004	0.0478	0.0176	2.0000e-004	5.6800e-003	3.4000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8800e-003		23.5728	23.5728	2.5800e-003	3.8100e-003	24.7713
Vendor	5.0600e-003	0.2227	0.0830	1.0000e-003	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		112.7283	112.7283	7.5300e-003	0.0166	117.8763
Worker	0.0489	0.0252	0.4460	1.5700e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		158.9546	158.9546	3.1500e-003	3.2700e-003	160.0082
Total	**0.0548**	**0.2957**	**0.5466**	**2.7700e-003**	**0.2449**	**2.4100e-003**	**0.2473**	**0.0658**	**2.2700e-003**	**0.0680**		**295.2557**	**295.2557**	**0.0133**	**0.0237**	**302.6558**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285		1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**		**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.5000e-004	0.0469	0.0180	2.0000e-004	5.6800e-003	3.3000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8700e-003		23.0852	23.0852	2.6400e-003	3.7300e-003	24.2629
Vendor	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	0.0469	0.0232	0.4239	1.5300e-003	0.2054	8.2000e-004	0.2062	0.0545	7.5000e-004	0.0552		154.3541	154.3541	2.8800e-003	3.1100e-003	155.3522
Total	**0.0526**	**0.2898**	**0.5252**	**2.7100e-003**	**0.2449**	**2.3600e-003**	**0.2472**	**0.0658**	**2.2200e-003**	**0.0680**		**287.9731**	**287.9731**	**0.0132**	**0.0232**	**295.2080**

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	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285	0.0000	1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**	**0.0000**	**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.5000e-004	0.0469	0.0180	2.0000e-004	5.6800e-003	3.3000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8700e-003		23.0852	23.0852	2.6400e-003	3.7300e-003	24.2629
Vendor	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	0.0469	0.0232	0.4239	1.5300e-003	0.2054	8.2000e-004	0.2062	0.0545	7.5000e-004	0.0552		154.3541	154.3541	2.8800e-003	3.1100e-003	155.3522
Total	**0.0526**	**0.2898**	**0.5252**	**2.7100e-003**	**0.2449**	**2.3600e-003**	**0.2472**	**0.0658**	**2.2200e-003**	**0.0680**		**287.9731**	**287.9731**	**0.0132**	**0.0232**	**295.2080**

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5298	4.8914	8.0942	0.0126		0.2268	0.2268		0.2095	0.2095		1,205.7069	1,205.7069	0.3816		1,215.2476
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5298**	**4.8914**	**8.0942**	**0.0126**		**0.2268**	**0.2268**		**0.2095**	**0.2095**		**1,205.7069**	**1,205.7069**	**0.3816**		**1,215.2476**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

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	2.2900e-003	0.1437	0.0553	6.0000e-004	0.0174	1.0200e-003	0.0185	4.7700e-003	9.8000e-004	5.7500e-003		70.7945	70.7945	8.1000e-003	0.0114	74.4063
Vendor	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	9.3900e-003	4.6300e-003	0.0848	3.1000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		30.8708	30.8708	5.8000e-004	6.2000e-004	31.0704
Total	**0.0166**	**0.3681**	**0.2234**	**1.8900e-003**	**0.0923**	**2.3900e-003**	**0.0947**	**0.0254**	**2.2800e-003**	**0.0277**		**212.1992**	**212.1992**	**0.0164**	**0.0284**	**221.0696**

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	0.5298	4.8914	8.0942	0.0126		0.2268	0.2268		0.2095	0.2095	0.0000	1,205.7069	1,205.7069	0.3816		1,215.2476
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5298**	**4.8914**	**8.0942**	**0.0126**		**0.2268**	**0.2268**		**0.2095**	**0.2095**	**0.0000**	**1,205.7069**	**1,205.7069**	**0.3816**		**1,215.2476**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

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	2.2900e-003	0.1437	0.0553	6.0000e-004	0.0174	1.0200e-003	0.0185	4.7700e-003	9.8000e-004	5.7500e-003		70.7945	70.7945	8.1000e-003	0.0114	74.4063
Vendor	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	9.3900e-003	4.6300e-003	0.0848	3.1000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		30.8708	30.8708	5.8000e-004	6.2000e-004	31.0704
Total	**0.0166**	**0.3681**	**0.2234**	**1.8900e-003**	**0.0923**	**2.3900e-003**	**0.0947**	**0.0254**	**2.2800e-003**	**0.0277**		**212.1992**	**212.1992**	**0.0164**	**0.0284**	**221.0696**

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**23.5886**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	9.3900e-003	4.6300e-003	0.0848	3.1000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		30.8708	30.8708	5.8000e-004	6.2000e-004	31.0704
Total	**0.0143**	**0.2244**	**0.1681**	**1.2900e-003**	**0.0749**	**1.3700e-003**	**0.0763**	**0.0206**	**1.3000e-003**	**0.0219**		**141.4046**	**141.4046**	**8.2800e-003**	**0.0170**	**146.6633**

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	23.4177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**23.5886**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.9500e-003	0.2198	0.0833	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1500e-003	0.0109		110.5338	110.5338	7.7000e-003	0.0163	115.5929
Worker	9.3900e-003	4.6300e-003	0.0848	3.1000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		30.8708	30.8708	5.8000e-004	6.2000e-004	31.0704
Total	**0.0143**	**0.2244**	**0.1681**	**1.2900e-003**	**0.0749**	**1.3700e-003**	**0.0763**	**0.0206**	**1.3000e-003**	**0.0219**		**141.4046**	**141.4046**	**8.2800e-003**	**0.0170**	**146.6633**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Mitigated	1.8168	1.3984	16.1142	0.0364	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,701.5553	3,701.5553	0.2207	0.1453	3,750.3683
Unmitigated	1.8168	1.3984	16.1142	0.0364	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,701.5553	3,701.5553	0.2207	0.1453	3,750.3683

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Research & Development	831.18	140.25	81.94	1,567,510	1,567,510
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	831.18	140.25	81.94	1,567,510	1,567,510

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763
City Park	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763
Other Non-Asphalt Surfaces	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
NaturalGas Unmitigated	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Research & Development	4969	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Total		**0.0536**	**0.4872**	**0.4092**	**2.9200e-003**		**0.0370**	**0.0370**		**0.0370**	**0.0370**		**584.5878**	**584.5878**	**0.0112**	**0.0107**	**588.0617**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Research & Development	4.969	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Total		**0.0536**	**0.4872**	**0.4092**	**2.9200e-003**		**0.0370**	**0.0370**		**0.0370**	**0.0370**		**584.5878**	**584.5878**	**0.0112**	**0.0107**	**588.0617**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Unmitigated	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224

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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Total	**1.8026**	**9.0000e-005**	**9.7800e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0210**	**0.0210**	**5.0000e-005**		**0.0224**

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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Total	**1.8026**	**9.0000e-005**	**9.7800e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0210**	**0.0210**	**5.0000e-005**		**0.0224**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Summer

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

11.0 Vegetation

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2)

San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	73.82	1000sqft	1.69	73,817.00	0
Other Non-Asphalt Surfaces	21.86	1000sqft	0.50	21,863.00	0
City Park	0.37	Acre	0.37	16,117.20	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	70
Climate Zone	5			**Operational Year**	2027
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	12	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - 1005 O'Brien Drive and 1320 Willow Road Project (Phase 2). Adjusted CO2 intensity per Pennensula Clean Energy report: 12 lb of CO2e per MWh.

Land Use - Updated per project description. Phase 2 would include 73,817 SF of buildings, 21,863 SF of impervious surfaces, and 0.37 acres of landscaping.

Construction Phase - Updated schedule per applicant. Phase 2 would begin May 2025 and would be completed June 2026.

Off-road Equipment - Default equipment assumed.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

Off-road Equipment - Updated equipment per applicant.

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Off-road Equipment - Updated equipment per applicant.

Trips and VMT - Updated trips per applicant.

Demolition - 26,013 SF of building demolished.

Grading -

Architectural Coating - Low VOC coatings applied per applicant.

Vehicle Trips - TO UPDATE. City Park represents landscaping area, no trips assumed.

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves -

Energy Use - Default rates assumed.

Water And Wastewater - Default rates assumed.

Solid Waste - City park represents landcaping area therefore no solid waste assumed.

Construction Off-road Equipment Mitigation -

Water Mitigation -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	220.00	230.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	6/4/2025	6/6/2025
tblConstructionPhase	PhaseEndDate	6/12/2025	7/4/2025

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

tblConstructionPhase	PhaseEndDate	4/16/2026	5/22/2026
tblConstructionPhase	PhaseEndDate	4/30/2026	6/12/2026
tblConstructionPhase	PhaseEndDate	5/14/2026	6/12/2026
tblConstructionPhase	PhaseStartDate	5/31/2025	6/2/2025
tblConstructionPhase	PhaseStartDate	6/5/2025	6/9/2025
tblConstructionPhase	PhaseStartDate	6/13/2025	7/7/2025
tblConstructionPhase	PhaseStartDate	4/17/2026	5/25/2026
tblConstructionPhase	PhaseStartDate	5/1/2026	5/25/2026
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Dozers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	7.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

tblProjectCharacteristics	CO2IntensityFactor	203.98	12
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblSolidWaste	SolidWasteGenerationRate	0.03	0.00
tblTripsAndVMT	HaulingTripNumber	118.00	120.00
tblTripsAndVMT	HaulingTripNumber	0.00	25.00
tblTripsAndVMT	HaulingTripNumber	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	75.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	3.00
tblTripsAndVMT	VendorTripNumber	18.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	12.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00
tblTripsAndVMT	WorkerTripNumber	40.00	25.00
tblTripsAndVMT	WorkerTripNumber	13.00	5.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2025	1.3035	13.4288	10.6334	0.0274	7.2958	0.5211	7.8168	3.4823	0.4796	3.9619	0.0000	2,719.2364	2,719.2364	0.7731	0.0719	2,756.1367
2026	24.1511	8.8057	10.4442	0.0211	0.2449	0.3476	0.5925	0.0658	0.3308	0.3965	0.0000	2,011.5017	2,011.5017	0.4218	0.0456	2,027.2489
Maximum	**24.1511**	**13.4288**	**10.6334**	**0.0274**	**7.2958**	**0.5211**	**7.8168**	**3.4823**	**0.4796**	**3.9619**	**0.0000**	**2,719.2364**	**2,719.2364**	**0.7731**	**0.0719**	**2,756.1367**

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					
2025	1.3035	13.4288	10.6334	0.0274	7.2958	0.5211	7.8168	3.4823	0.4796	3.9619	0.0000	2,719.2364	2,719.2364	0.7731	0.0719	2,756.1367
2026	24.1511	8.8057	10.4442	0.0211	0.2449	0.3476	0.5925	0.0658	0.3308	0.3965	0.0000	2,011.5017	2,011.5017	0.4218	0.0456	2,027.2488
Maximum	**24.1511**	**13.4288**	**10.6334**	**0.0274**	**7.2958**	**0.5211**	**7.8168**	**3.4823**	**0.4796**	**3.9619**	**0.0000**	**2,719.2364**	**2,719.2364**	**0.7731**	**0.0719**	**2,756.1367**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Energy	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Mobile	1.7191	1.6216	17.6445	0.0349	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,549.4860	3,549.4860	0.2444	0.1591	3,603.0179
Total	**3.5753**	**2.1089**	**18.0635**	**0.0378**	**4.3793**	**0.0590**	**4.4382**	**1.1659**	**0.0574**	**1.2233**		**4,134.0948**	**4,134.0948**	**0.2556**	**0.1699**	**4,191.1020**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Energy	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Mobile	1.7191	1.6216	17.6445	0.0349	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,549.4860	3,549.4860	0.2444	0.1591	3,603.0179

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Total	**3.5753**	**2.1089**	**18.0635**	**0.0378**	**4.3793**	**0.0590**	**4.4382**	**1.1659**	**0.0574**	**1.2233**		**4,134.0948**	**4,134.0948**	**0.2556**	**0.1699**	**4,191.1020**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/5/2025	5/30/2025	5	20	
2	Site Preparation	Site Preparation	6/2/2025	6/6/2025	5	5	
3	Grading	Grading	6/9/2025	7/4/2025	5	20	
4	Building Construction	Building Construction	7/7/2025	5/22/2026	5	230	
5	Paving	Paving	5/25/2026	6/12/2026	5	15	
6	Architectural Coating	Architectural Coating	5/25/2026	6/12/2026	5	15	

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 20

Acres of Paving: 0.5

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 110,726; Non-Residential Outdoor: 36,909; Striped Parking Area: 1,312

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Paving	Cement and Mortar Mixers	1	6.00	9	0.56

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Excavators	1	8.00	158	0.38
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40

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	3	12.00	0.00	120.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	10.00	2.00	25.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	15.00	3.00	80.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	25.00	5.00	75.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	5.00	5.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Architectural Coating		1	5.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2803	0.0000	1.2803	0.1939	0.0000	0.1939			0.0000			0.0000
Off-Road	1.0753	10.2356	8.8722	0.0179		0.4371	0.4371		0.4095	0.4095		1,721.6816	1,721.6816	0.3912		1,731.4621
Total	**1.0753**	**10.2356**	**8.8722**	**0.0179**	**1.2803**	**0.4371**	**1.7174**	**0.1939**	**0.4095**	**0.6034**		**1,721.6816**	**1,721.6816**	**0.3912**		**1,731.4621**

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	0.0133	0.9281	0.3254	3.6800e-003	0.1045	6.1900e-003	0.1107	0.0286	5.9200e-003	0.0345		433.9065	433.9065	0.0474	0.0701	455.9715
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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Worker	0.0259	0.0149	0.2144	7.1000e-004	0.0986	4.1000e-004	0.0990	0.0262	3.8000e-004	0.0265		72.1520	72.1520	1.7300e-003	1.8000e-003	72.7324
Total	**0.0393**	**0.9430**	**0.5398**	**4.3900e-003**	**0.2031**	**6.6000e-003**	**0.2097**	**0.0548**	**6.3000e-003**	**0.0611**		**506.0585**	**506.0585**	**0.0491**	**0.0719**	**528.7039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2803	0.0000	1.2803	0.1939	0.0000	0.1939			0.0000			0.0000
Off-Road	1.0753	10.2356	8.8722	0.0179		0.4371	0.4371		0.4095	0.4095	0.0000	1,721.6816	1,721.6816	0.3912		1,731.4621
Total	**1.0753**	**10.2356**	**8.8722**	**0.0179**	**1.2803**	**0.4371**	**1.7174**	**0.1939**	**0.4095**	**0.6034**	**0.0000**	**1,721.6816**	**1,721.6816**	**0.3912**		**1,731.4621**

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	0.0133	0.9281	0.3254	3.6800e-003	0.1045	6.1900e-003	0.1107	0.0286	5.9200e-003	0.0345		433.9065	433.9065	0.0474	0.0701	455.9715

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

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	0.0259	0.0149	0.2144	7.1000e-004	0.0986	4.1000e-004	0.0990	0.0262	3.8000e-004	0.0265		72.1520	72.1520	1.7300e-003	1.8000e-003	72.7324
Total	**0.0393**	**0.9430**	**0.5398**	**4.3900e-003**	**0.2031**	**6.6000e-003**	**0.2097**	**0.0548**	**6.3000e-003**	**0.0611**		**506.0585**	**506.0585**	**0.0491**	**0.0719**	**528.7039**

3.3 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136		1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**6.5523**	**0.3408**	**6.8932**	**3.3675**	**0.3136**	**3.6810**		**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

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					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Hauling	0.0111	0.7734	0.2712	3.0700e-003	0.0871	5.1600e-003	0.0923	0.0239	4.9400e-003	0.0288		361.5888	361.5888	0.0395	0.0584	379.9762
Vendor	1.9900e-003	0.0939	0.0342	4.0000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.7000e-004	4.3600e-003		45.1202	45.1202	3.0100e-003	6.6700e-003	47.1827
Worker	0.0216	0.0124	0.1787	5.9000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.2000e-004	0.0221		60.1266	60.1266	1.4400e-003	1.5000e-003	60.6103
Total	**0.0347**	**0.8797**	**0.4840**	**4.0600e-003**	**0.1828**	**6.0000e-003**	**0.1888**	**0.0495**	**5.7300e-003**	**0.0553**		**466.8356**	**466.8356**	**0.0440**	**0.0666**	**487.7693**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.7726	7.8883	5.1922	0.0116		0.3408	0.3408		0.3136	0.3136	0.0000	1,119.2992	1,119.2992	0.3620		1,128.3493
Total	**0.7726**	**7.8883**	**5.1922**	**0.0116**	**6.5523**	**0.3408**	**6.8932**	**3.3675**	**0.3136**	**3.6810**	**0.0000**	**1,119.2992**	**1,119.2992**	**0.3620**		**1,128.3493**

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

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Category	lb/day										lb/day					
Hauling	0.0111	0.7734	0.2712	3.0700e-003	0.0871	5.1600e-003	0.0923	0.0239	4.9400e-003	0.0288	361.5888	361.5888	0.0395	0.0584	379.9762	
Vendor	1.9900e-003	0.0939	0.0342	4.0000e-004	0.0135	4.9000e-004	0.0140	3.8900e-003	4.7000e-004	4.3600e-003	45.1202	45.1202	3.0100e-003	6.6700e-003	47.1827	
Worker	0.0216	0.0124	0.1787	5.9000e-004	0.0822	3.5000e-004	0.0825	0.0218	3.2000e-004	0.0221	60.1266	60.1266	1.4400e-003	1.5000e-003	60.6103	
Total	**0.0347**	**0.8797**	**0.4840**	**4.0600e-003**	**0.1828**	**6.0000e-003**	**0.1888**	**0.0495**	**5.7300e-003**	**0.0553**	**466.8356**	**466.8356**	**0.0440**	**0.0666**	**487.7693**	

3.4 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2592	12.6507	10.0972	0.0235		0.5157	0.5157		0.4744	0.4744		2,272.0952	2,272.0952	0.7348		2,290.4662
Total	**1.2592**	**12.6507**	**10.0972**	**0.0235**	**7.0826**	**0.5157**	**7.5983**	**3.4247**	**0.4744**	**3.8992**		**2,272.0952**	**2,272.0952**	**0.7348**		**2,290.4662**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.8900e-003	0.6187	0.2169	2.4500e-003	0.0697	4.1300e-003	0.0738	0.0191	3.9500e-003	0.0230		289.2710	289.2710	0.0316	0.0467	303.9810
Vendor	2.9800e-003	0.1408	0.0513	6.0000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5400e-003		67.6803	67.6803	4.5100e-003	0.0100	70.7741
Worker	0.0324	0.0186	0.2680	8.9000e-004	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		90.1899	90.1899	2.1600e-003	2.2500e-003	90.9155
Total	**0.0443**	**0.7781**	**0.5362**	**3.9400e-003**	**0.2132**	**5.3800e-003**	**0.2186**	**0.0576**	**5.1300e-003**	**0.0627**		**447.1413**	**447.1413**	**0.0383**	**0.0590**	**465.6705**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.2592	12.6507	10.0972	0.0235		0.5157	0.5157		0.4744	0.4744	0.0000	2,272.0952	2,272.0952	0.7348		2,290.4662
Total	**1.2592**	**12.6507**	**10.0972**	**0.0235**	**7.0826**	**0.5157**	**7.5983**	**3.4247**	**0.4744**	**3.8992**	**0.0000**	**2,272.0952**	**2,272.0952**	**0.7348**		**2,290.4662**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.8900e-003	0.6187	0.2169	2.4500e-003	0.0697	4.1300e-003	0.0738	0.0191	3.9500e-003	0.0230		289.2710	289.2710	0.0316	0.0467	303.9810
Vendor	2.9800e-003	0.1408	0.0513	6.0000e-004	0.0203	7.3000e-004	0.0210	5.8400e-003	7.0000e-004	6.5400e-003		67.6803	67.6803	4.5100e-003	0.0100	70.7741
Worker	0.0324	0.0186	0.2680	8.9000e-004	0.1232	5.2000e-004	0.1237	0.0327	4.8000e-004	0.0332		90.1899	90.1899	2.1600e-003	2.2500e-003	90.9155
Total	**0.0443**	**0.7781**	**0.5362**	**3.9400e-003**	**0.2132**	**5.3800e-003**	**0.2186**	**0.0576**	**5.1300e-003**	**0.0627**		**447.1413**	**447.1413**	**0.0383**	**0.0590**	**465.6705**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285		1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**		**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2000e-004	0.0504	0.0177	2.0000e-004	5.6800e-003	3.4000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8800e-003		23.5819	23.5819	2.5800e-003	3.8100e-003	24.7811
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0541	0.0310	0.4467	1.4900e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		150.3166	150.3166	3.5900e-003	3.7600e-003	151.5258
Total	**0.0597**	**0.3161**	**0.5498**	**2.6900e-003**	**0.2449**	**2.4200e-003**	**0.2473**	**0.0658**	**2.2800e-003**	**0.0680**		**286.6990**	**286.6990**	**0.0137**	**0.0242**	**294.2636**

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	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285	0.0000	1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**	**0.0000**	**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.2000e-004	0.0504	0.0177	2.0000e-004	5.6800e-003	3.4000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8800e-003		23.5819	23.5819	2.5800e-003	3.8100e-003	24.7811
Vendor	4.9600e-003	0.2346	0.0854	1.0000e-003	0.0338	1.2200e-003	0.0350	9.7300e-003	1.1700e-003	0.0109		112.8005	112.8005	7.5100e-003	0.0167	117.9568
Worker	0.0541	0.0310	0.4467	1.4900e-003	0.2054	8.6000e-004	0.2062	0.0545	7.9000e-004	0.0553		150.3166	150.3166	3.5900e-003	3.7600e-003	151.5258
Total	**0.0597**	**0.3161**	**0.5498**	**2.6900e-003**	**0.2449**	**2.4200e-003**	**0.2473**	**0.0658**	**2.2800e-003**	**0.0680**		**286.6990**	**286.6990**	**0.0137**	**0.0242**	**294.2636**

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285		1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**		**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Unmitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1000e-004	0.0494	0.0181	2.0000e-004	5.6800e-003	3.3000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8800e-003		23.0949	23.0949	2.6400e-003	3.7300e-003	24.2734
Vendor	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.0521	0.0285	0.4251	1.4400e-003	0.2054	8.2000e-004	0.2062	0.0545	7.5000e-004	0.0552		145.9798	145.9798	3.3000e-003	3.5700e-003	147.1252
Total	**0.0577**	**0.3095**	**0.5289**	**2.6200e-003**	**0.2449**	**2.3600e-003**	**0.2472**	**0.0658**	**2.2300e-003**	**0.0680**		**279.6868**	**279.6868**	**0.0136**	**0.0237**	**287.0780**

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	0.9624	8.4962	9.9153	0.0184		0.3453	0.3453		0.3285	0.3285	0.0000	1,731.8150	1,731.8150	0.3342		1,740.1709
Total	**0.9624**	**8.4962**	**9.9153**	**0.0184**		**0.3453**	**0.3453**		**0.3285**	**0.3285**	**0.0000**	**1,731.8150**	**1,731.8150**	**0.3342**		**1,740.1709**

Mitigated Construction Off-Site

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1000e-004	0.0494	0.0181	2.0000e-004	5.6800e-003	3.3000e-004	6.0200e-003	1.5600e-003	3.2000e-004	1.8800e-003		23.0949	23.0949	2.6400e-003	3.7300e-003	24.2734
Vendor	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.0521	0.0285	0.4251	1.4400e-003	0.2054	8.2000e-004	0.2062	0.0545	7.5000e-004	0.0552		145.9798	145.9798	3.3000e-003	3.5700e-003	147.1252
Total	**0.0577**	**0.3095**	**0.5289**	**2.6200e-003**	**0.2449**	**2.3600e-003**	**0.2472**	**0.0658**	**2.2300e-003**	**0.0680**		**279.6868**	**279.6868**	**0.0136**	**0.0237**	**287.0780**

3.6 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5298	4.8914	8.0942	0.0126		0.2268	0.2268		0.2095	0.2095		1,205.7069	1,205.7069	0.3816		1,215.2476
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5298**	**4.8914**	**8.0942**	**0.0126**		**0.2268**	**0.2268**		**0.2095**	**0.2095**		**1,205.7069**	**1,205.7069**	**0.3816**		**1,215.2476**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

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	2.1900e-003	0.1516	0.0555	6.0000e-004	0.0174	1.0200e-003	0.0185	4.7700e-003	9.8000e-004	5.7500e-003		70.8244	70.8244	8.0900e-003	0.0115	74.4383
Vendor	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.0104	5.7000e-003	0.0850	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		29.1960	29.1960	6.6000e-004	7.1000e-004	29.4251
Total	**0.0175**	**0.3889**	**0.2262**	**1.8700e-003**	**0.0923**	**2.3900e-003**	**0.0947**	**0.0254**	**2.2900e-003**	**0.0277**		**210.6324**	**210.6324**	**0.0164**	**0.0285**	**219.5428**

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	0.5298	4.8914	8.0942	0.0126		0.2268	0.2268		0.2095	0.2095	0.0000	1,205.7069	1,205.7069	0.3816		1,215.2476
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5298**	**4.8914**	**8.0942**	**0.0126**		**0.2268**	**0.2268**		**0.2095**	**0.2095**	**0.0000**	**1,205.7069**	**1,205.7069**	**0.3816**		**1,215.2476**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

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	2.1900e-003	0.1516	0.0555	6.0000e-004	0.0174	1.0200e-003	0.0185	4.7700e-003	9.8000e-004	5.7500e-003		70.8244	70.8244	8.0900e-003	0.0115	74.4383
Vendor	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.0104	5.7000e-003	0.0850	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		29.1960	29.1960	6.6000e-004	7.1000e-004	29.4251
Total	**0.0175**	**0.3889**	**0.2262**	**1.8700e-003**	**0.0923**	**2.3900e-003**	**0.0947**	**0.0254**	**2.2900e-003**	**0.0277**		**210.6324**	**210.6324**	**0.0164**	**0.0285**	**219.5428**

3.7 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	23.4177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**23.5886**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.0104	5.7000e-003	0.0850	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		29.1960	29.1960	6.6000e-004	7.1000e-004	29.4251
Total	**0.0153**	**0.2373**	**0.1707**	**1.2700e-003**	**0.0749**	**1.3700e-003**	**0.0763**	**0.0206**	**1.3100e-003**	**0.0219**		**139.8080**	**139.8080**	**8.3400e-003**	**0.0171**	**145.1044**

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	23.4177					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**23.5886**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.8400e-003	0.2316	0.0857	9.8000e-004	0.0338	1.2100e-003	0.0350	9.7300e-003	1.1600e-003	0.0109		110.6121	110.6121	7.6800e-003	0.0164	115.6794
Worker	0.0104	5.7000e-003	0.0850	2.9000e-004	0.0411	1.6000e-004	0.0412	0.0109	1.5000e-004	0.0111		29.1960	29.1960	6.6000e-004	7.1000e-004	29.4251
Total	**0.0153**	**0.2373**	**0.1707**	**1.2700e-003**	**0.0749**	**1.3700e-003**	**0.0763**	**0.0206**	**1.3100e-003**	**0.0219**		**139.8080**	**139.8080**	**8.3400e-003**	**0.0171**	**145.1044**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Mitigated	1.7191	1.6216	17.6445	0.0349	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,549.4860	3,549.4860	0.2444	0.1591	3,603.0179
Unmitigated	1.7191	1.6216	17.6445	0.0349	4.3793	0.0219	4.4012	1.1659	0.0204	1.1862		3,549.4860	3,549.4860	0.2444	0.1591	3,603.0179

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Research & Development	831.18	140.25	81.94	1,567,510	1,567,510
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	831.18	140.25	81.94	1,567,510	1,567,510

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Research & Development	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763
City Park	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763
Other Non-Asphalt Surfaces	0.451136	0.075713	0.241761	0.151109	0.026208	0.006728	0.010738	0.001931	0.001405	0.000537	0.029545	0.000427	0.002763

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
NaturalGas Unmitigated	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Research & Development	4969	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Total		**0.0536**	**0.4872**	**0.4092**	**2.9200e-003**		**0.0370**	**0.0370**		**0.0370**	**0.0370**		**584.5878**	**584.5878**	**0.0112**	**0.0107**	**588.0617**

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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
Research & Development	4.969	0.0536	0.4872	0.4092	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.5878	584.5878	0.0112	0.0107	588.0617
Total		**0.0536**	**0.4872**	**0.4092**	**2.9200e-003**		**0.0370**	**0.0370**		**0.0370**	**0.0370**		**584.5878**	**584.5878**	**0.0112**	**0.0107**	**588.0617**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Unmitigated	1.8026	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224

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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Total	**1.8026**	**9.0000e-005**	**9.7800e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0210**	**0.0210**	**5.0000e-005**		**0.0224**

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	0.2134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

Consumer Products	1.5883					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.0000e-004	9.0000e-005	9.7800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0210	0.0210	5.0000e-005		0.0224
Total	**1.8026**	**9.0000e-005**	**9.7800e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**		**0.0210**	**0.0210**	**5.0000e-005**		**0.0224**

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

1005 O'Brien Drive and 1320 Willow Road Project (Phase 2) - San Mateo County, Winter

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

11.0 Vegetation