

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

**Goerner Single-Family Dwelling
Santa Barbara-South of Santa Ynez Range County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.83	6,764.00	3
Recreational Swimming Pool	0.80	1000sqft	0.02	800.00	0
Other Asphalt Surfaces	1.49	Acre	1.49	64,904.40	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	37
Climate Zone	8	Operational Year	2023		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project details; CO2 Intensity Factor set to 630.98 lb/MWh consistent with SBCAPCD Scope and Content of Air Quality Sections in Environmental Documents (2022)

Land Use - Project details; Development of single-family home with detached garage, guest house, pool, and 29,400 sf of landscaping. Improvement of 2,900-foot-long drive to be 16-feet-wide and paved

Construction Phase - Project construction schedule, assuming construction work 7:00am - 4:30pm Monday through Friday, no weekend work

Off-road Equipment - Project standard construction equipment

Off-road Equipment - Caisson installation requiring Caisson drilling truck

Off-road Equipment - Project standard construction equipment

Off-road Equipment - Project standard equipment

Off-road Equipment - Project standard equipment

Off-road Equipment - Project standard equipment

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

Off-road Equipment - Project standard equipment

Grading - Project cut and fill

Trips and VMT - Estimated vendor (cement delivery, material delivery), hauling, and worker trips based on construction details. Total estimated 1,950 cy of export of fill, 200 concrete delivery trips, 140 construction material trips

Architectural Coating -

Vehicle Trips - Project involves a single-family residence, that would add an estimated one trip per day to local roadways per ITE Common Trip Generation Rates

Solid Waste - No solid waste generated by single-family residential pool. All solid waste associated with operation of single-family residence

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	70.00
tblConstructionPhase	NumDays	6.00	45.00
tblConstructionPhase	NumDays	220.00	41.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	220.00	85.00
tblConstructionPhase	NumDays	220.00	24.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	9/14/2023	12/8/2023
tblConstructionPhase	PhaseEndDate	8/17/2023	5/5/2023
tblConstructionPhase	PhaseEndDate	9/30/2022	10/31/2022
tblConstructionPhase	PhaseEndDate	10/13/2022	3/3/2023
tblConstructionPhase	PhaseEndDate	8/31/2023	9/1/2023
tblConstructionPhase	PhaseEndDate	10/5/2022	12/2/2022
tblConstructionPhase	PhaseStartDate	9/1/2023	9/4/2023
tblConstructionPhase	PhaseStartDate	10/14/2022	3/6/2023
tblConstructionPhase	PhaseStartDate	10/6/2022	12/5/2022
tblConstructionPhase	PhaseStartDate	8/18/2023	5/8/2023
tblConstructionPhase	PhaseStartDate	10/1/2022	11/1/2022
tblDemolition	PhaseName	Demolition	Bridge Construction
tblGrading	AcresOfGrading	6.00	1.49

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

tblGrading	AcresOfGrading	4.50	1.49
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	250.00
tblGrading	PhaseName	Grading	Driveway Construction
tblGrading	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblLandUse	LandUseSquareFeet	1,800.00	6,764.00
tblLandUse	LotAcreage	0.32	0.83
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		House Site Finish Work - Arch Coating
tblOffRoadEquipment	PhaseName	Paving	House Site Framing
tblOffRoadEquipment	PhaseName		Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName	Grading	Driveway Construction
tblOffRoadEquipment	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		Driveway Construction
tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	PhaseName		Driveway Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	PhaseName	Grading	Driveway Construction
tblOffRoadEquipment	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	630.98
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.56	0.00
tblTripsAndVMT	PhaseName		Bridge Construction
tblTripsAndVMT	PhaseName		Driveway Caisson and Wall Construction
tblTripsAndVMT	PhaseName		Driveway Construction
tblTripsAndVMT	PhaseName		House Site Grading
tblTripsAndVMT	PhaseName		House Site Framing
tblTripsAndVMT	PhaseName		House Site Finish Work - Construction
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	320.00
tblTripsAndVMT	VendorTripNumber	11.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	320.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	28.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	6.00	40.00

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	9.54	1.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	8.55	1.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	9.44	1.00

2.0 Emissions Summary

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0442	0.6019	0.3519	1.4500e-003	0.0368	0.0160	0.0528	0.0116	0.0148	0.0264	0.0000	136.2564	136.2564	0.0208	0.0116	140.2180
2023	0.1315	1.7877	1.3135	5.3700e-003	0.1512	0.0421	0.1933	0.0460	0.0402	0.0862	0.0000	508.5514	508.5514	0.0438	0.0522	525.1983
Maximum	0.1315	1.7877	1.3135	5.3700e-003	0.1512	0.0421	0.1933	0.0460	0.0402	0.0862	0.0000	508.5514	508.5514	0.0438	0.0522	525.1983

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0442	0.5356	0.3519	1.4500e-003	0.0368	0.0160	0.0528	0.0116	0.0148	0.0264	0.0000	136.2563	136.2563	0.0208	0.0116	140.2179
2023	0.1315	1.7773	1.3135	5.3700e-003	0.1512	0.0421	0.1933	0.0460	0.0402	0.0862	0.0000	508.5512	508.5512	0.0438	0.0522	525.1981
Maximum	0.1315	1.7773	1.3135	5.3700e-003	0.1512	0.0421	0.1933	0.0460	0.0402	0.0862	0.0000	508.5512	508.5512	0.0438	0.0522	525.1981

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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
Percent Reduction	0.00	3.21	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	9-5-2022	12-4-2022	0.3190	0.2540
2	12-5-2022	3-4-2023	0.9090	0.9090
3	3-5-2023	6-4-2023	0.2547	0.2446
4	6-5-2023	9-4-2023	0.2298	0.2298
5	9-5-2023	9-30-2023	0.2077	0.2077
		Highest	0.9090	0.9090

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	0.0357	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125
Energy	1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	3.5129	3.5129	1.4000e-004	4.0000e-005	3.5276
Mobile	4.8000e-004	5.8000e-004	3.9300e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6363	0.6363	5.0000e-005	4.0000e-005	0.6488
Waste						0.0000	0.0000		0.0000	0.0000	0.2554	0.0000	0.2554	0.0127	0.0000	0.5721
Water						0.0000	0.0000		0.0000	0.0000	0.0398	0.2444	0.2842	1.5000e-004	9.0000e-005	0.3142
Total	0.0364	1.7700e-003	0.0119	2.0000e-005	7.0000e-004	1.4000e-004	8.3000e-004	1.9000e-004	1.4000e-004	3.2000e-004	0.2952	4.4057	4.7010	0.0130	1.7000e-004	5.0751

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0357	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125
Energy	1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	3.5129	3.5129	1.4000e-004	4.0000e-005	3.5276
Mobile	4.8000e-004	5.8000e-004	3.9300e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6363	0.6363	5.0000e-005	4.0000e-005	0.6488
Waste						0.0000	0.0000		0.0000	0.0000	0.2554	0.0000	0.2554	0.0127	0.0000	0.5721
Water						0.0000	0.0000		0.0000	0.0000	0.0398	0.2444	0.2842	1.5000e-004	9.0000e-005	0.3142
Total	0.0364	1.7700e-003	0.0119	2.0000e-005	7.0000e-004	1.4000e-004	8.3000e-004	1.9000e-004	1.4000e-004	3.2000e-004	0.2952	4.4057	4.7010	0.0130	1.7000e-004	5.0751

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Bridge Construction	Building Construction	9/5/2022	10/31/2022	5	41	
2	Driveway Caisson and Wall Construction	Building Construction	11/1/2022	12/2/2022	5	24	
3	Driveway Construction	Paving	12/5/2022	3/3/2023	5	65	

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

4	House Site Grading	Grading	3/6/2023	5/5/2023	5	45
5	House Site Framing	Building Construction	5/8/2023	9/1/2023	5	85
6	House Site Finish Work - Construction	Building Construction	9/4/2023	12/8/2023	5	70
7	House Site Finish Work - Arch Coating	Architectural Coating	12/11/2023	12/29/2023	5	15

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.83

Acres of Paving: 1.49

Residential Indoor: 13,697; Residential Outdoor: 4,566; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,894 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
House Site Finish Work - Arch Coating	Air Compressors	1	8.00	78	0.48
House Site Framing	Cement and Mortar Mixers	1	8.00	9	0.56
Driveway Caisson and Wall Construction	Bore/Drill Rigs	1	6.00	221	0.50
House Site Framing	Generator Sets	1	8.00	84	0.74
House Site Framing	Welders	1	8.00	46	0.45
House Site Framing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Construction	Graders	1	8.00	187	0.41
Driveway Caisson and Wall Construction	Graders	1	8.00	187	0.41
House Site Finish Work - Construction	Cement and Mortar Mixers	1	8.00	9	0.56
House Site Finish Work - Construction	Generator Sets	1	8.00	84	0.74
House Site Finish Work - Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Construction	Pavers	1	8.00	130	0.42
House Site Grading	Dumpers/Tenders	1	8.00	16	0.38
Driveway Construction	Rollers	1	8.00	80	0.38
House Site Finish Work - Construction	Welders	1	8.00	46	0.45

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

House Site Grading	Graders	1	8.00	187	0.41
Driveway Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Caisson and Wall Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Bridge Construction	Dumpers/Tenders	1	8.00	16	0.38
Bridge Construction	Excavators	1	8.00	158	0.38
Bridge Construction	Graders	1	8.00	187	0.41
House Site Grading	Tractors/Loaders/Backhoes	1	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
Bridge Construction	5	20.00	20.00	64.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Driveway Caisson and Wall Construction	3	30.00	20.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Driveway Construction	4	20.00	320.00	250.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Grading	8	30.00	0.00	300.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Framing	6	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Finish Work - Construction	1	40.00	320.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Finish Work - Arch Coating	0	10.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.2 Bridge Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0142	0.1537	0.1072	2.6000e-004		5.5500e-003	5.5500e-003		5.1300e-003	5.1300e-003	0.0000	22.3583	22.3583	6.9900e-003	0.0000	22.5330
Total	0.0142	0.1537	0.1072	2.6000e-004		5.5500e-003	5.5500e-003		5.1300e-003	5.1300e-003	0.0000	22.3583	22.3583	6.9900e-003	0.0000	22.5330

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	6.3000e-003	1.4400e-003	2.0000e-005	5.5000e-004	5.0000e-005	6.0000e-004	1.5000e-004	5.0000e-005	2.0000e-004	0.0000	2.0650	2.0650	1.3000e-004	3.3000e-004	2.1669
Vendor	8.8000e-004	0.0238	7.6100e-003	8.0000e-005	2.3900e-003	2.2000e-004	2.6100e-003	6.9000e-004	2.1000e-004	9.0000e-004	0.0000	7.7049	7.7049	3.1000e-004	1.1300e-003	8.0506
Worker	1.1300e-003	8.5000e-004	8.6900e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5500e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	1.9887	1.9887	8.0000e-005	7.0000e-005	2.0123
Total	2.1500e-003	0.0310	0.0177	1.2000e-004	5.4700e-003	2.8000e-004	5.7600e-003	1.5100e-003	2.7000e-004	1.7900e-003	0.0000	11.7586	11.7586	5.2000e-004	1.5300e-003	12.2298

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.2 Bridge Construction - 2022

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	0.0142	0.1078	0.1072	2.6000e-004		5.5500e-003	5.5500e-003		5.1300e-003	5.1300e-003	0.0000	22.3583	22.3583	6.9900e-003	0.0000	22.5329
Total	0.0142	0.1078	0.1072	2.6000e-004		5.5500e-003	5.5500e-003		5.1300e-003	5.1300e-003	0.0000	22.3583	22.3583	6.9900e-003	0.0000	22.5329

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	6.3000e-003	1.4400e-003	2.0000e-005	5.5000e-004	5.0000e-005	6.0000e-004	1.5000e-004	5.0000e-005	2.0000e-004	0.0000	2.0650	2.0650	1.3000e-004	3.3000e-004	2.1669
Vendor	8.8000e-004	0.0238	7.6100e-003	8.0000e-005	2.3900e-003	2.2000e-004	2.6100e-003	6.9000e-004	2.1000e-004	9.0000e-004	0.0000	7.7049	7.7049	3.1000e-004	1.1300e-003	8.0506
Worker	1.1300e-003	8.5000e-004	8.6900e-003	2.0000e-005	2.5300e-003	1.0000e-005	2.5500e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	1.9887	1.9887	8.0000e-005	7.0000e-005	2.0123
Total	2.1500e-003	0.0310	0.0177	1.2000e-004	5.4700e-003	2.8000e-004	5.7600e-003	1.5100e-003	2.7000e-004	1.7900e-003	0.0000	11.7586	11.7586	5.2000e-004	1.5300e-003	12.2298

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.3 Driveway Caisson and Wall Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.1000e-004	0.0000	8.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7300e-003	0.1011	0.0625	2.0000e-004		3.6100e-003	3.6100e-003		3.3200e-003	3.3200e-003	0.0000	17.3095	17.3095	5.6000e-003	0.0000	17.4494
Total	8.7300e-003	0.1011	0.0625	2.0000e-004	8.1000e-004	3.6100e-003	4.4200e-003	9.0000e-005	3.3200e-003	3.4100e-003	0.0000	17.3095	17.3095	5.6000e-003	0.0000	17.4494

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	5.1000e-004	0.0139	4.4500e-003	5.0000e-005	1.4000e-003	1.3000e-004	1.5300e-003	4.0000e-004	1.3000e-004	5.3000e-004	0.0000	4.5102	4.5102	1.8000e-004	6.6000e-004	4.7125
Worker	1.0000e-003	7.5000e-004	7.6300e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7462	1.7462	7.0000e-005	6.0000e-005	1.7669
Total	1.5100e-003	0.0147	0.0121	7.0000e-005	3.6200e-003	1.4000e-004	3.7700e-003	9.9000e-004	1.4000e-004	1.1300e-003	0.0000	6.2563	6.2563	2.5000e-004	7.2000e-004	6.4794

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.3 Driveway Caisson and Wall Construction - 2022

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					8.1000e-004	0.0000	8.1000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7300e-003	0.0807	0.0625	2.0000e-004		3.6100e-003	3.6100e-003		3.3200e-003	3.3200e-003	0.0000	17.3094	17.3094	5.6000e-003	0.0000	17.4494
Total	8.7300e-003	0.0807	0.0625	2.0000e-004	8.1000e-004	3.6100e-003	4.4200e-003	9.0000e-005	3.3200e-003	3.4100e-003	0.0000	17.3094	17.3094	5.6000e-003	0.0000	17.4494

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	5.1000e-004	0.0139	4.4500e-003	5.0000e-005	1.4000e-003	1.3000e-004	1.5300e-003	4.0000e-004	1.3000e-004	5.3000e-004	0.0000	4.5102	4.5102	1.8000e-004	6.6000e-004	4.7125
Worker	1.0000e-003	7.5000e-004	7.6300e-003	2.0000e-005	2.2200e-003	1.0000e-005	2.2400e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.7462	1.7462	7.0000e-005	6.0000e-005	1.7669
Total	1.5100e-003	0.0147	0.0121	7.0000e-005	3.6200e-003	1.4000e-004	3.7700e-003	9.9000e-004	1.4000e-004	1.1300e-003	0.0000	6.2563	6.2563	2.5000e-004	7.2000e-004	6.4794

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.4200e-003	0.0000	6.4200e-003	3.1500e-003	0.0000	3.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5300e-003	0.1076	0.0870	1.7000e-004		4.5700e-003	4.5700e-003		4.2000e-003	4.2000e-003	0.0000	14.9856	14.9856	4.8500e-003	0.0000	15.1068
Paving	6.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.1076	0.0870	1.7000e-004	6.4200e-003	4.5700e-003	0.0110	3.1500e-003	4.2000e-003	7.3500e-003	0.0000	14.9856	14.9856	4.8500e-003	0.0000	15.1068

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	7.5800e-003	1.7300e-003	2.0000e-005	6.6000e-004	6.0000e-005	7.2000e-004	1.8000e-004	6.0000e-005	2.4000e-004	0.0000	2.4820	2.4820	1.6000e-004	4.0000e-004	2.6044
Vendor	6.8300e-003	0.1859	0.0594	6.1000e-004	0.0186	1.7500e-003	0.0204	5.3800e-003	1.6700e-003	7.0500e-003	0.0000	60.1359	60.1359	2.4300e-003	8.8500e-003	62.8336
Worker	5.5000e-004	4.2000e-004	4.2400e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9701	0.9701	4.0000e-005	4.0000e-005	0.9816
Total	7.5500e-003	0.1939	0.0653	6.4000e-004	0.0205	1.8200e-003	0.0223	5.8900e-003	1.7400e-003	7.6200e-003	0.0000	63.5880	63.5880	2.6300e-003	9.2900e-003	66.4196

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2022

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					6.4200e-003	0.0000	6.4200e-003	3.1500e-003	0.0000	3.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5300e-003	0.1076	0.0870	1.7000e-004		4.5700e-003	4.5700e-003		4.2000e-003	4.2000e-003	0.0000	14.9856	14.9856	4.8500e-003	0.0000	15.1068
Paving	6.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0101	0.1076	0.0870	1.7000e-004	6.4200e-003	4.5700e-003	0.0110	3.1500e-003	4.2000e-003	7.3500e-003	0.0000	14.9856	14.9856	4.8500e-003	0.0000	15.1068

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	7.5800e-003	1.7300e-003	2.0000e-005	6.6000e-004	6.0000e-005	7.2000e-004	1.8000e-004	6.0000e-005	2.4000e-004	0.0000	2.4820	2.4820	1.6000e-004	4.0000e-004	2.6044
Vendor	6.8300e-003	0.1859	0.0594	6.1000e-004	0.0186	1.7500e-003	0.0204	5.3800e-003	1.6700e-003	7.0500e-003	0.0000	60.1359	60.1359	2.4300e-003	8.8500e-003	62.8336
Worker	5.5000e-004	4.2000e-004	4.2400e-003	1.0000e-005	1.2400e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.3000e-004	0.0000	0.9701	0.9701	4.0000e-005	4.0000e-005	0.9816
Total	7.5500e-003	0.1939	0.0653	6.4000e-004	0.0205	1.8200e-003	0.0223	5.8900e-003	1.7400e-003	7.6200e-003	0.0000	63.5880	63.5880	2.6300e-003	9.2900e-003	66.4196

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0134	0.0000	0.0134	6.9700e-003	0.0000	6.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2178	0.1948	3.8000e-004		9.0800e-003	9.0800e-003		8.3600e-003	8.3600e-003	0.0000	33.7151	33.7151	0.0109	0.0000	33.9877
Paving	1.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0212	0.2178	0.1948	3.8000e-004	0.0134	9.0800e-003	0.0225	6.9700e-003	8.3600e-003	0.0153	0.0000	33.7151	33.7151	0.0109	0.0000	33.9877

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	0.0143	3.6500e-003	5.0000e-005	1.4800e-003	1.1000e-004	1.5900e-003	4.1000e-004	1.0000e-004	5.1000e-004	0.0000	5.3839	5.3839	3.7000e-004	8.6000e-004	5.6503
Vendor	9.1200e-003	0.3490	0.1179	1.3100e-003	0.0419	2.0100e-003	0.0439	0.0121	1.9200e-003	0.0140	0.0000	130.5862	130.5862	5.4200e-003	0.0192	136.4502
Worker	1.1600e-003	8.3000e-004	8.7900e-003	2.0000e-005	2.7800e-003	1.0000e-005	2.7900e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.1162	2.1162	8.0000e-005	7.0000e-005	2.1401
Total	0.0105	0.3642	0.1304	1.3800e-003	0.0462	2.1300e-003	0.0483	0.0133	2.0300e-003	0.0153	0.0000	138.0862	138.0862	5.8700e-003	0.0202	144.2407

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0134	0.0000	0.0134	6.9700e-003	0.0000	6.9700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2178	0.1948	3.8000e-004		9.0800e-003	9.0800e-003		8.3600e-003	8.3600e-003	0.0000	33.7151	33.7151	0.0109	0.0000	33.9877
Paving	1.3500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0212	0.2178	0.1948	3.8000e-004	0.0134	9.0800e-003	0.0225	6.9700e-003	8.3600e-003	0.0153	0.0000	33.7151	33.7151	0.0109	0.0000	33.9877

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.4 Driveway Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	0.0143	3.6500e-003	5.0000e-005	1.4800e-003	1.1000e-004	1.5900e-003	4.1000e-004	1.0000e-004	5.1000e-004	0.0000	5.3839	5.3839	3.7000e-004	8.6000e-004	5.6503
Vendor	9.1200e-003	0.3490	0.1179	1.3100e-003	0.0419	2.0100e-003	0.0439	0.0121	1.9200e-003	0.0140	0.0000	130.5862	130.5862	5.4200e-003	0.0192	136.4502
Worker	1.1600e-003	8.3000e-004	8.7900e-003	2.0000e-005	2.7800e-003	1.0000e-005	2.7900e-003	7.4000e-004	1.0000e-005	7.5000e-004	0.0000	2.1162	2.1162	8.0000e-005	7.0000e-005	2.1401
Total	0.0105	0.3642	0.1304	1.3800e-003	0.0462	2.1300e-003	0.0483	0.0133	2.0300e-003	0.0153	0.0000	138.0862	138.0862	5.8700e-003	0.0202	144.2407

3.5 House Site Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0137	0.1497	0.0939	2.4000e-004		5.4900e-003	5.4900e-003		5.0800e-003	5.0800e-003	0.0000	20.4805	20.4805	6.3600e-003	0.0000	20.6394
Total	0.0137	0.1497	0.0939	2.4000e-004	5.3000e-004	5.4900e-003	6.0200e-003	6.0000e-005	5.0800e-003	5.1400e-003	0.0000	20.4805	20.4805	6.3600e-003	0.0000	20.6394

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.5 House Site Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0248	6.3300e-003	9.0000e-005	2.5600e-003	1.9000e-004	2.7500e-003	7.0000e-004	1.8000e-004	8.8000e-004	0.0000	9.3321	9.3321	6.4000e-004	1.5000e-003	9.7939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.2400e-003	0.0132	3.0000e-005	4.1700e-003	2.0000e-005	4.1900e-003	1.1100e-003	2.0000e-005	1.1300e-003	0.0000	3.1743	3.1743	1.2000e-004	1.1000e-004	3.2102
Total	2.1200e-003	0.0261	0.0195	1.2000e-004	6.7300e-003	2.1000e-004	6.9400e-003	1.8100e-003	2.0000e-004	2.0100e-003	0.0000	12.5063	12.5063	7.6000e-004	1.6100e-003	13.0041

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					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0137	0.1393	0.0939	2.4000e-004		5.4900e-003	5.4900e-003		5.0800e-003	5.0800e-003	0.0000	20.4805	20.4805	6.3600e-003	0.0000	20.6393
Total	0.0137	0.1393	0.0939	2.4000e-004	5.3000e-004	5.4900e-003	6.0200e-003	6.0000e-005	5.0800e-003	5.1400e-003	0.0000	20.4805	20.4805	6.3600e-003	0.0000	20.6393

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.5 House Site Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.8000e-004	0.0248	6.3300e-003	9.0000e-005	2.5600e-003	1.9000e-004	2.7500e-003	7.0000e-004	1.8000e-004	8.8000e-004	0.0000	9.3321	9.3321	6.4000e-004	1.5000e-003	9.7939
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.2400e-003	0.0132	3.0000e-005	4.1700e-003	2.0000e-005	4.1900e-003	1.1100e-003	2.0000e-005	1.1300e-003	0.0000	3.1743	3.1743	1.2000e-004	1.1000e-004	3.2102
Total	2.1200e-003	0.0261	0.0195	1.2000e-004	6.7300e-003	2.1000e-004	6.9400e-003	1.8100e-003	2.0000e-004	2.0100e-003	0.0000	12.5063	12.5063	7.6000e-004	1.6100e-003	13.0041

3.6 House Site Framing - 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	0.0327	0.2567	0.3352	5.5000e-004		0.0116	0.0116		0.0114	0.0114	0.0000	45.5958	45.5958	5.8900e-003	0.0000	45.7431
Total	0.0327	0.2567	0.3352	5.5000e-004		0.0116	0.0116		0.0114	0.0114	0.0000	45.5958	45.5958	5.8900e-003	0.0000	45.7431

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.6 House Site Framing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3800e-003	3.1300e-003	0.0332	9.0000e-005	0.0105	5.0000e-005	0.0106	2.7900e-003	5.0000e-005	2.8400e-003	0.0000	7.9944	7.9944	3.1000e-004	2.8000e-004	8.0849
Total	4.3800e-003	3.1300e-003	0.0332	9.0000e-005	0.0105	5.0000e-005	0.0106	2.7900e-003	5.0000e-005	2.8400e-003	0.0000	7.9944	7.9944	3.1000e-004	2.8000e-004	8.0849

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	0.0327	0.2567	0.3352	5.5000e-004		0.0116	0.0116		0.0114	0.0114	0.0000	45.5957	45.5957	5.8900e-003	0.0000	45.7430
Total	0.0327	0.2567	0.3352	5.5000e-004		0.0116	0.0116		0.0114	0.0114	0.0000	45.5957	45.5957	5.8900e-003	0.0000	45.7430

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.6 House Site Framing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3800e-003	3.1300e-003	0.0332	9.0000e-005	0.0105	5.0000e-005	0.0106	2.7900e-003	5.0000e-005	2.8400e-003	0.0000	7.9944	7.9944	3.1000e-004	2.8000e-004	8.0849
Total	4.3800e-003	3.1300e-003	0.0332	9.0000e-005	0.0105	5.0000e-005	0.0106	2.7900e-003	5.0000e-005	2.8400e-003	0.0000	7.9944	7.9944	3.1000e-004	2.8000e-004	8.0849

3.7 House Site Finish Work - Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0270	0.2114	0.2760	4.5000e-004		9.5700e-003	9.5700e-003		9.3600e-003	9.3600e-003	0.0000	37.5495	37.5495	4.8500e-003	0.0000	37.6708
Total	0.0270	0.2114	0.2760	4.5000e-004		9.5700e-003	9.5700e-003		9.3600e-003	9.3600e-003	0.0000	37.5495	37.5495	4.8500e-003	0.0000	37.6708

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.7 House Site Finish Work - Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0142	0.5430	0.1834	2.0400e-003	0.0652	3.1300e-003	0.0683	0.0188	2.9900e-003	0.0218	0.0000	203.1340	203.1340	8.4300e-003	0.0299	212.2559
Worker	3.6100e-003	2.5800e-003	0.0274	7.0000e-005	8.6500e-003	4.0000e-005	8.6900e-003	2.3000e-003	4.0000e-005	2.3400e-003	0.0000	6.5837	6.5837	2.6000e-004	2.3000e-004	6.6582
Total	0.0178	0.5455	0.2108	2.1100e-003	0.0739	3.1700e-003	0.0770	0.0211	3.0300e-003	0.0242	0.0000	209.7177	209.7177	8.6900e-003	0.0301	218.9141

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	0.0270	0.2114	0.2760	4.5000e-004		9.5700e-003	9.5700e-003		9.3600e-003	9.3600e-003	0.0000	37.5494	37.5494	4.8500e-003	0.0000	37.6707
Total	0.0270	0.2114	0.2760	4.5000e-004		9.5700e-003	9.5700e-003		9.3600e-003	9.3600e-003	0.0000	37.5494	37.5494	4.8500e-003	0.0000	37.6707

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.7 House Site Finish Work - Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0142	0.5430	0.1834	2.0400e-003	0.0652	3.1300e-003	0.0683	0.0188	2.9900e-003	0.0218	0.0000	203.1340	203.1340	8.4300e-003	0.0299	212.2559
Worker	3.6100e-003	2.5800e-003	0.0274	7.0000e-005	8.6500e-003	4.0000e-005	8.6900e-003	2.3000e-003	4.0000e-005	2.3400e-003	0.0000	6.5837	6.5837	2.6000e-004	2.3000e-004	6.6582
Total	0.0178	0.5455	0.2108	2.1100e-003	0.0739	3.1700e-003	0.0770	0.0211	3.0300e-003	0.0242	0.0000	209.7177	209.7177	8.6900e-003	0.0301	218.9141

3.8 House Site Finish Work - Arch Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.8 House Site Finish Work - Arch Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.4000e-004	1.4700e-003	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3527	0.3527	1.0000e-005	1.0000e-005	0.3567
Total	1.9000e-004	1.4000e-004	1.4700e-003	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3527	0.3527	1.0000e-005	1.0000e-005	0.3567

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	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

3.8 House Site Finish Work - Arch Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.4000e-004	1.4700e-003	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3527	0.3527	1.0000e-005	1.0000e-005	0.3567
Total	1.9000e-004	1.4000e-004	1.4700e-003	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3527	0.3527	1.0000e-005	1.0000e-005	0.3567

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.8000e-004	5.8000e-004	3.9300e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6363	0.6363	5.0000e-005	4.0000e-005	0.6488
Unmitigated	4.8000e-004	5.8000e-004	3.9300e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.0000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6363	0.6363	5.0000e-005	4.0000e-005	0.6488

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Single Family Housing	1.00	1.00	1.00	1,852	1,852
Total	1.00	1.00	1.00	1,852	1,852

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	6.60	5.50	6.40	33.00	48.00	19.00	52	39	9
Single Family Housing	8.30	4.50	4.90	25.60	9.90	64.50	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Recreational Swimming Pool	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

Single Family Housing	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
-----------------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

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	2.2376	2.2376	1.2000e-004	1.0000e-005	2.2448
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2.2376	2.2376	1.2000e-004	1.0000e-005	2.2448
NaturalGas Mitigated	1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2753	1.2753	2.0000e-005	2.0000e-005	1.2829
NaturalGas Unmitigated	1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2753	1.2753	2.0000e-005	2.0000e-005	1.2829

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Single Family Housing	23897.8	1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2753	1.2753	2.0000e-005	2.0000e-005	1.2829
Total		1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2753	1.2753	2.0000e-005	2.0000e-005	1.2829

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Single Family Housing	23897.8	1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2753	1.2753	2.0000e-005	2.0000e-005	1.2829
Total		1.3000e-004	1.1000e-003	4.7000e-004	1.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	1.2753	1.2753	2.0000e-005	2.0000e-005	1.2829

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7818.09	2.2376	1.2000e-004	1.0000e-005	2.2448
Total		2.2376	1.2000e-004	1.0000e-005	2.2448

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7818.09	2.2376	1.2000e-004	1.0000e-005	2.2448
Total		2.2376	1.2000e-004	1.0000e-005	2.2448

6.0 Area Detail

6.1 Mitigation Measures Area

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0357	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125
Unmitigated	0.0357	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125

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	4.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125
Total	0.0357	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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

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	4.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125
Total	0.0357	9.0000e-005	7.4500e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0122	0.0122	1.0000e-005	0.0000	0.0125

7.0 Water Detail

7.1 Mitigation Measures Water

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2842	1.5000e-004	9.0000e-005	0.3142
Unmitigated	0.2842	1.5000e-004	9.0000e-005	0.3142

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.0473145 / 0.0289992	0.1191	6.0000e-005	4.0000e-005	0.1317
Single Family Housing	0.065154 / 0.0410754	0.1651	9.0000e-005	5.0000e-005	0.1825
Total		0.2842	1.5000e-004	9.0000e-005	0.3142

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.0473145 / 0.0289992	0.1191	6.0000e-005	4.0000e-005	0.1317
Single Family Housing	0.065154 / 0.0410754	0.1651	9.0000e-005	5.0000e-005	0.1825
Total		0.2842	1.5000e-004	9.0000e-005	0.3142

8.0 Waste Detail

8.1 Mitigation Measures Waste

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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	0.2554	0.0127	0.0000	0.5721
Unmitigated	0.2554	0.0127	0.0000	0.5721

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.23	0.2554	0.0127	0.0000	0.5721
Total		0.2554	0.0127	0.0000	0.5721

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.23	0.2554	0.0127	0.0000	0.5721
Total		0.2554	0.0127	0.0000	0.5721

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

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Annual

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

11.0 Vegetation

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

**Goerner Single-Family Dwelling
Santa Barbara-South of Santa Ynez Range County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.83	6,764.00	3
Recreational Swimming Pool	0.80	1000sqft	0.02	800.00	0
Other Asphalt Surfaces	1.49	Acre	1.49	64,904.40	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	37
Climate Zone	8			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project details; CO2 Intensity Factor set to 630.98 lb/MWh consistent with SBCAPCD Scope and Content of Air Quality Sections in Environmental Documents (2022)

Land Use - Project details; Development of single-family home with detached garage, guest house, pool, and 29,400 sf of landscaping. Improvement of 2,900-foot-long drive to be 16-feet-wide and paved

Construction Phase - Project construction schedule, assuming construction work 7:00am - 4:30pm Monday through Friday, no weekend work

Off-road Equipment - Project standard construction equipment

Off-road Equipment - Caisson installation requiring Caisson drilling truck

Off-road Equipment - Project standard construction equipment

Off-road Equipment - Project standard equipment

Off-road Equipment - Project standard equipment

Off-road Equipment - Project standard equipment

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

Off-road Equipment - Project standard equipment

Grading - Project cut and fill

Trips and VMT - Estimated vendor (cement delivery, material delivery), hauling, and worker trips based on construction details. Total estimated 1,950 cy of export of fill, 200 concrete delivery trips, 140 construction material trips

Architectural Coating -

Vehicle Trips - Project involves a single-family residence, that would add an estimated one trip per day to local roadways per ITE Common Trip Generation Rates

Solid Waste - No solid waste generated by single-family residential pool. All solid waste associated with operation of single-family residence

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	70.00
tblConstructionPhase	NumDays	6.00	45.00
tblConstructionPhase	NumDays	220.00	41.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	220.00	85.00
tblConstructionPhase	NumDays	220.00	24.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	9/14/2023	12/8/2023
tblConstructionPhase	PhaseEndDate	8/17/2023	5/5/2023
tblConstructionPhase	PhaseEndDate	9/30/2022	10/31/2022
tblConstructionPhase	PhaseEndDate	10/13/2022	3/3/2023
tblConstructionPhase	PhaseEndDate	8/31/2023	9/1/2023
tblConstructionPhase	PhaseEndDate	10/5/2022	12/2/2022
tblConstructionPhase	PhaseStartDate	9/1/2023	9/4/2023
tblConstructionPhase	PhaseStartDate	10/14/2022	3/6/2023
tblConstructionPhase	PhaseStartDate	10/6/2022	12/5/2022
tblConstructionPhase	PhaseStartDate	8/18/2023	5/8/2023
tblConstructionPhase	PhaseStartDate	10/1/2022	11/1/2022
tblDemolition	PhaseName	Demolition	Bridge Construction
tblGrading	AcresOfGrading	6.00	1.49

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

tblGrading	AcresOfGrading	4.50	1.49
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	250.00
tblGrading	PhaseName	Grading	Driveway Construction
tblGrading	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblLandUse	LandUseSquareFeet	1,800.00	6,764.00
tblLandUse	LotAcreage	0.32	0.83
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		House Site Finish Work - Arch Coating
tblOffRoadEquipment	PhaseName	Paving	House Site Framing
tblOffRoadEquipment	PhaseName		Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName	Grading	Driveway Construction
tblOffRoadEquipment	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		Driveway Construction
tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	PhaseName		Driveway Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	PhaseName	Grading	Driveway Construction
tblOffRoadEquipment	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	630.98
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.56	0.00
tblTripsAndVMT	PhaseName		Bridge Construction
tblTripsAndVMT	PhaseName		Driveway Caisson and Wall Construction
tblTripsAndVMT	PhaseName		Driveway Construction
tblTripsAndVMT	PhaseName		House Site Grading
tblTripsAndVMT	PhaseName		House Site Framing
tblTripsAndVMT	PhaseName		House Site Finish Work - Construction
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	320.00
tblTripsAndVMT	VendorTripNumber	11.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	320.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	28.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	6.00	40.00

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	9.54	1.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	8.55	1.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	9.44	1.00

2.0 Emissions Summary

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7726	30.0082	15.3354	0.0812	2.6730	0.6386	3.3116	0.9064	0.5942	1.5005	0.0000	8,662.762 2	8,662.762 2	0.8234	1.0235	8,988.355 0
2023	1.4083	25.8015	14.5370	0.0788	2.6729	0.4988	3.1717	0.9064	0.4623	1.3687	0.0000	8,421.382 1	8,421.382 1	0.8216	0.9885	8,736.498 9
Maximum	1.7726	30.0082	15.3354	0.0812	2.6730	0.6386	3.3116	0.9064	0.5942	1.5005	0.0000	8,662.762 2	8,662.762 2	0.8234	1.0235	8,988.355 0

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7726	30.0082	15.3354	0.0812	2.6730	0.6386	3.3116	0.9064	0.5942	1.5005	0.0000	8,662.762 2	8,662.762 2	0.8234	1.0235	8,988.355 0
2023	1.4083	25.8015	14.5370	0.0788	2.6729	0.4988	3.1717	0.9064	0.4623	1.3687	0.0000	8,421.382 1	8,421.382 1	0.8216	0.9885	8,736.498 9
Maximum	1.7726	30.0082	15.3354	0.0812	2.6730	0.6386	3.3116	0.9064	0.5942	1.5005	0.0000	8,662.762 2	8,662.762 2	0.8234	1.0235	8,988.355 0

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527
Energy	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Mobile	2.6800e-003	3.2400e-003	0.0225	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.8567	3.8567	3.4000e-004	2.3000e-004	3.9338
Total	0.2005	0.0102	0.1079	8.0000e-005	3.9200e-003	9.8000e-004	4.9100e-003	1.0500e-003	9.8000e-004	2.0300e-003	0.0000	11.7085	11.7085	6.3000e-004	3.7000e-004	11.8350

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	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527
Energy	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Mobile	2.6800e-003	3.2400e-003	0.0225	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.8567	3.8567	3.4000e-004	2.3000e-004	3.9338
Total	0.2005	0.0102	0.1079	8.0000e-005	3.9200e-003	9.8000e-004	4.9100e-003	1.0500e-003	9.8000e-004	2.0300e-003	0.0000	11.7085	11.7085	6.3000e-004	3.7000e-004	11.8350

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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
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	Bridge Construction	Building Construction	9/5/2022	10/31/2022	5	41	
2	Driveway Caisson and Wall Construction	Building Construction	11/1/2022	12/2/2022	5	24	
3	Driveway Construction	Paving	12/5/2022	3/3/2023	5	65	
4	House Site Grading	Grading	3/6/2023	5/5/2023	5	45	
5	House Site Framing	Building Construction	5/8/2023	9/1/2023	5	85	
6	House Site Finish Work - Construction	Building Construction	9/4/2023	12/8/2023	5	70	
7	House Site Finish Work - Arch Coating	Architectural Coating	12/11/2023	12/29/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.83

Acres of Paving: 1.49

Residential Indoor: 13,697; Residential Outdoor: 4,566; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,894 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
House Site Finish Work - Arch Coating	Air Compressors	1	8.00	78	0.48
House Site Framing	Cement and Mortar Mixers	1	8.00	9	0.56
Driveway Caisson and Wall Construction	Bore/Drill Rigs	1	6.00	221	0.50
House Site Framing	Generator Sets	1	8.00	84	0.74

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

House Site Framing	Welders	1	8.00	46	0.45
House Site Framing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Construction	Graders	1	8.00	187	0.41
Driveway Caisson and Wall Construction	Graders	1	8.00	187	0.41
House Site Finish Work - Construction	Cement and Mortar Mixers	1	8.00	9	0.56
House Site Finish Work - Construction	Generator Sets	1	8.00	84	0.74
House Site Finish Work - Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Construction	Pavers	1	8.00	130	0.42
House Site Grading	Dumpers/Tenders	1	8.00	16	0.38
Driveway Construction	Rollers	1	8.00	80	0.38
House Site Finish Work - Construction	Welders	1	8.00	46	0.45
House Site Grading	Graders	1	8.00	187	0.41
Driveway Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Caisson and Wall Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Bridge Construction	Dumpers/Tenders	1	8.00	16	0.38
Bridge Construction	Excavators	1	8.00	158	0.38
Bridge Construction	Graders	1	8.00	187	0.41
House Site Grading	Tractors/Loaders/Backhoes	1	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
Bridge Construction	5	20.00	20.00	64.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Driveway Caisson and Wall Construction	3	30.00	20.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Driveway Construction	4	20.00	320.00	250.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Grading	8	30.00	0.00	300.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Framing	6	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Finish Work - Construction	1	40.00	320.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

House Site Finish Work - Arch Coating	0	10.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
---------------------------------------	---	-------	------	------	------	------	-------	--------	---------	------

3.1 Mitigation Measures Construction

3.2 Bridge Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6909	7.4991	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502		1,202.2345	1,202.2345	0.3757		1,211.6260
Total	0.6909	7.4991	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502		1,202.2345	1,202.2345	0.3757		1,211.6260

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.2 Bridge Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.9000e-003	0.3045	0.0708	9.8000e-004	0.0272	2.5800e-003	0.0298	7.4400e-003	2.4600e-003	9.9000e-003		111.0603	111.0603	7.1600e-003	0.0178	116.5359
Vendor	0.0427	1.1536	0.3764	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0105	0.0446		414.4009	414.4009	0.0167	0.0610	432.9913
Worker	0.0592	0.0427	0.4350	1.0600e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		106.8222	106.8222	4.6500e-003	3.9700e-003	108.1207
Total	0.1088	1.5007	0.8822	5.8300e-003	0.2721	0.0142	0.2862	0.0751	0.0135	0.0886		632.2833	632.2833	0.0285	0.0827	657.6479

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	0.6909	5.2576	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502	0.0000	1,202.2345	1,202.2345	0.3757		1,211.6260
Total	0.6909	5.2576	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502	0.0000	1,202.2345	1,202.2345	0.3757		1,211.6260

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.2 Bridge Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.9000e-003	0.3045	0.0708	9.8000e-004	0.0272	2.5800e-003	0.0298	7.4400e-003	2.4600e-003	9.9000e-003		111.0603	111.0603	7.1600e-003	0.0178	116.5359
Vendor	0.0427	1.1536	0.3764	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0105	0.0446		414.4009	414.4009	0.0167	0.0610	432.9913
Worker	0.0592	0.0427	0.4350	1.0600e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		106.8222	106.8222	4.6500e-003	3.9700e-003	108.1207
Total	0.1088	1.5007	0.8822	5.8300e-003	0.2721	0.0142	0.2862	0.0751	0.0135	0.0886		632.2833	632.2833	0.0285	0.0827	657.6479

3.3 Driveway Caisson and Wall Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0674	0.0000	0.0674	7.3400e-003	0.0000	7.3400e-003			0.0000			0.0000
Off-Road	0.7272	8.4236	5.2108	0.0164		0.3006	0.3006		0.2766	0.2766		1,590.0336	1,590.0336	0.5143		1,602.8899
Total	0.7272	8.4236	5.2108	0.0164	0.0674	0.3006	0.3680	7.3400e-003	0.2766	0.2839		1,590.0336	1,590.0336	0.5143		1,602.8899

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.3 Driveway Caisson and Wall Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0427	1.1536	0.3764	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0105	0.0446		414.4009	414.4009	0.0167	0.0610	432.9913
Worker	0.0888	0.0640	0.6525	1.5900e-003	0.1895	9.8000e-004	0.1905	0.0503	9.0000e-004	0.0512		160.2333	160.2333	6.9700e-003	5.9500e-003	162.1811
Total	0.1315	1.2176	1.0289	5.3800e-003	0.3080	0.0119	0.3200	0.0844	0.0114	0.0958		574.6342	574.6342	0.0237	0.0669	595.1724

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					0.0674	0.0000	0.0674	7.3400e-003	0.0000	7.3400e-003			0.0000			0.0000
Off-Road	0.7272	6.7238	5.2108	0.0164		0.3006	0.3006		0.2766	0.2766	0.0000	1,590.0336	1,590.0336	0.5143		1,602.8899
Total	0.7272	6.7238	5.2108	0.0164	0.0674	0.3006	0.3680	7.3400e-003	0.2766	0.2839	0.0000	1,590.0336	1,590.0336	0.5143		1,602.8899

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.3 Driveway Caisson and Wall Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0427	1.1536	0.3764	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0105	0.0446		414.4009	414.4009	0.0167	0.0610	432.9913
Worker	0.0888	0.0640	0.6525	1.5900e-003	0.1895	9.8000e-004	0.1905	0.0503	9.0000e-004	0.0512		160.2333	160.2333	6.9700e-003	5.9500e-003	162.1811
Total	0.1315	1.2176	1.0289	5.3800e-003	0.3080	0.0119	0.3200	0.0844	0.0114	0.0958		574.6342	574.6342	0.0237	0.0669	595.1724

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.9529	10.7580	8.7040	0.0171		0.4565	0.4565		0.4200	0.4200		1,651.8796	1,651.8796	0.5343		1,665.2359
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0129	10.7580	8.7040	0.0171	0.5825	0.4565	1.0390	0.3085	0.4200	0.7285		1,651.8796	1,651.8796	0.5343		1,665.2359

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0170	0.7502	0.1744	2.4200e-003	0.0670	6.3500e-003	0.0733	0.0183	6.0700e-003	0.0244		273.6461	273.6461	0.0176	0.0438	287.1378
Vendor	0.6834	18.4573	6.0220	0.0607	1.8972	0.1751	2.0723	0.5460	0.1675	0.7135		6,630.4142	6,630.4142	0.2669	0.9758	6,927.8605
Worker	0.0592	0.0427	0.4350	1.0600e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		106.8222	106.8222	4.6500e-003	3.9700e-003	108.1207
Total	0.7596	19.2502	6.6314	0.0642	2.0905	0.1821	2.2726	0.5978	0.1742	0.7720		7,010.8825	7,010.8825	0.2891	1.0235	7,323.1190

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2022

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					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.9529	10.7580	8.7040	0.0171		0.4565	0.4565		0.4200	0.4200	0.0000	1,651.879 6	1,651.879 6	0.5343		1,665.235 9
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0129	10.7580	8.7040	0.0171	0.5825	0.4565	1.0390	0.3085	0.4200	0.7285	0.0000	1,651.879 6	1,651.879 6	0.5343		1,665.235 9

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0170	0.7502	0.1744	2.4200e-003	0.0670	6.3500e-003	0.0733	0.0183	6.0700e-003	0.0244		273.6461	273.6461	0.0176	0.0438	287.1378
Vendor	0.6834	18.4573	6.0220	0.0607	1.8972	0.1751	2.0723	0.5460	0.1675	0.7135		6,630.4142	6,630.4142	0.2669	0.9758	6,927.8605
Worker	0.0592	0.0427	0.4350	1.0600e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		106.8222	106.8222	4.6500e-003	3.9700e-003	108.1207
Total	0.7596	19.2502	6.6314	0.0642	2.0905	0.1821	2.2726	0.5978	0.1742	0.7720		7,010.8825	7,010.8825	0.2891	1.0235	7,323.1190

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway 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					
Fugitive Dust					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.8805	9.6816	8.6593	0.0171		0.4037	0.4037		0.3714	0.3714		1,651.7567	1,651.7567	0.5342		1,665.1120
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9405	9.6816	8.6593	0.0171	0.5825	0.4037	0.9862	0.3085	0.3714	0.6800		1,651.7567	1,651.7567	0.5342		1,665.1120

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5500e-003	0.6312	0.1632	2.3300e-003	0.0670	4.7800e-003	0.0718	0.0183	4.5700e-003	0.0229		263.8782	263.8782	0.0182	0.0423	276.9356
Vendor	0.4030	15.4509	5.3133	0.0584	1.8972	0.0897	1.9868	0.5460	0.0858	0.6318		6,402.1805	6,402.1805	0.2650	0.9426	6,689.6867
Worker	0.0553	0.0378	0.4012	1.0200e-003	0.1263	6.2000e-004	0.1269	0.0335	5.7000e-004	0.0341		103.5668	103.5668	4.2100e-003	3.6700e-003	104.7646
Total	0.4678	16.1198	5.8777	0.0618	2.0905	0.0951	2.1855	0.5978	0.0909	0.6887		6,769.6255	6,769.6255	0.2874	0.9885	7,071.3869

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.8805	9.6816	8.6593	0.0171		0.4037	0.4037		0.3714	0.3714	0.0000	1,651.7567	1,651.7567	0.5342		1,665.1120
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9405	9.6816	8.6593	0.0171	0.5825	0.4037	0.9862	0.3085	0.3714	0.6800	0.0000	1,651.7567	1,651.7567	0.5342		1,665.1120

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.4 Driveway Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5500e-003	0.6312	0.1632	2.3300e-003	0.0670	4.7800e-003	0.0718	0.0183	4.5700e-003	0.0229		263.8782	263.8782	0.0182	0.0423	276.9356
Vendor	0.4030	15.4509	5.3133	0.0584	1.8972	0.0897	1.9868	0.5460	0.0858	0.6318		6,402.1805	6,402.1805	0.2650	0.9426	6,689.6867
Worker	0.0553	0.0378	0.4012	1.0200e-003	0.1263	6.2000e-004	0.1269	0.0335	5.7000e-004	0.0341		103.5668	103.5668	4.2100e-003	3.6700e-003	104.7646
Total	0.4678	16.1198	5.8777	0.0618	2.0905	0.0951	2.1855	0.5978	0.0909	0.6887		6,769.6255	6,769.6255	0.2874	0.9885	7,071.3869

3.5 House Site 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					0.0235	0.0000	0.0235	2.7100e-003	0.0000	2.7100e-003			0.0000			0.0000
Off-Road	0.6083	6.6533	4.1748	0.0105		0.2439	0.2439		0.2258	0.2258		1,003.3720	1,003.3720	0.3113		1,011.1555
Total	0.6083	6.6533	4.1748	0.0105	0.0235	0.2439	0.2674	2.7100e-003	0.2258	0.2285		1,003.3720	1,003.3720	0.3113		1,011.1555

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.5 House Site Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0166	1.0940	0.2830	4.0300e-003	0.1161	8.2800e-003	0.1244	0.0318	7.9200e-003	0.0397		457.3888	457.3888	0.0315	0.0733	480.0216
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	0.0829	0.0567	0.6018	1.5400e-003	0.1895	9.2000e-004	0.1904	0.0503	8.5000e-004	0.0511		155.3502	155.3502	6.3100e-003	5.5000e-003	157.1469
Total	0.0994	1.1507	0.8848	5.5700e-003	0.3056	9.2000e-003	0.3148	0.0820	8.7700e-003	0.0908		612.7390	612.7390	0.0378	0.0788	637.1686

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0235	0.0000	0.0235	2.7100e-003	0.0000	2.7100e-003			0.0000			0.0000
Off-Road	0.6083	6.1887	4.1748	0.0105		0.2439	0.2439		0.2258	0.2258	0.0000	1,003.3720	1,003.3720	0.3113		1,011.1555
Total	0.6083	6.1887	4.1748	0.0105	0.0235	0.2439	0.2674	2.7100e-003	0.2258	0.2285	0.0000	1,003.3720	1,003.3720	0.3113		1,011.1555

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.5 House Site Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0166	1.0940	0.2830	4.0300e-003	0.1161	8.2800e-003	0.1244	0.0318	7.9200e-003	0.0397		457.3888	457.3888	0.0315	0.0733	480.0216
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	0.0829	0.0567	0.6018	1.5400e-003	0.1895	9.2000e-004	0.1904	0.0503	8.5000e-004	0.0511		155.3502	155.3502	6.3100e-003	5.5000e-003	157.1469
Total	0.0994	1.1507	0.8848	5.5700e-003	0.3056	9.2000e-003	0.3148	0.0820	8.7700e-003	0.0908		612.7390	612.7390	0.0378	0.0788	637.1686

3.6 House Site Framing - 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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.6 House Site Framing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293

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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.6 House Site Framing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293

3.7 House Site Finish Work - 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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.7 House Site Finish Work - Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4030	15.4509	5.3133	0.0584	1.8972	0.0897	1.9868	0.5460	0.0858	0.6318		6,402.1805	6,402.1805	0.2650	0.9426	6,689.6867
Worker	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.5135	15.5265	6.1157	0.0605	2.1498	0.0909	2.2407	0.6130	0.0869	0.6999		6,609.3141	6,609.3141	0.2734	0.9499	6,899.2160

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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.7 House Site Finish Work - Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4030	15.4509	5.3133	0.0584	1.8972	0.0897	1.9868	0.5460	0.0858	0.6318		6,402.1805	6,402.1805	0.2650	0.9426	6,689.6867
Worker	0.1105	0.0756	0.8024	2.0500e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		207.1336	207.1336	8.4200e-003	7.3300e-003	209.5293
Total	0.5135	15.5265	6.1157	0.0605	2.1498	0.0909	2.2407	0.6130	0.0869	0.6999		6,609.3141	6,609.3141	0.2734	0.9499	6,899.2160

3.8 House Site Finish Work - Arch Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.8 House Site Finish Work - Arch Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0189	0.2006	5.1000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823
Total	0.0276	0.0189	0.2006	5.1000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823

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	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

3.8 House Site Finish Work - Arch Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0276	0.0189	0.2006	5.1000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823
Total	0.0276	0.0189	0.2006	5.1000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		51.7834	51.7834	2.1000e-003	1.8300e-003	52.3823

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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					
Mitigated	2.6800e-003	3.2400e-003	0.0225	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.8567	3.8567	3.4000e-004	2.3000e-004	3.9338
Unmitigated	2.6800e-003	3.2400e-003	0.0225	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.8567	3.8567	3.4000e-004	2.3000e-004	3.9338

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Single Family Housing	1.00	1.00	1.00	1,852	1,852
Total	1.00	1.00	1.00	1,852	1,852

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	6.60	5.50	6.40	33.00	48.00	19.00	52	39	9
Single Family Housing	8.30	4.50	4.90	25.60	9.90	64.50	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Recreational Swimming Pool	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

Single Family Housing	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
-----------------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
NaturalGas Unmitigated	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Single Family Housing	65.4733	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Total		7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Single Family Housing	0.0654733	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Total		7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485

6.0 Area Detail

6.1 Mitigation Measures Area

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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					
Mitigated	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527
Unmitigated	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527

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	0.0269					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1491	0.1491	1.4000e-004		0.1527
Total	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0269					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1491	0.1491	1.4000e-004		0.1527
Total	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527

7.0 Water Detail

7.1 Mitigation Measures Water

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

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

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

Goerner Single-Family Dwelling

Santa Barbara-South of Santa Ynez Range County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.83	6,764.00	3
Recreational Swimming Pool	0.80	1000sqft	0.02	800.00	0
Other Asphalt Surfaces	1.49	Acre	1.49	64,904.40	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.7	Precipitation Freq (Days)	37
Climate Zone	8	Operational Year	2023		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Project details; CO2 Intensity Factor set to 630.98 lb/MWh consistent with SBCAPCD Scope and Content of Air Quality Sections in Environmental Documents (2022)

Land Use - Project details; Development of single-family home with detached garage, guest house, pool, and 29,400 sf of landscaping. Improvement of 2,900-foot-long drive to be 16-feet-wide and paved

Construction Phase - Project construction schedule, assuming construction work 7:00am - 4:30pm Monday through Friday, no weekend work

Off-road Equipment - Project standard construction equipment

Off-road Equipment - Caisson installation requiring Caisson drilling truck

Off-road Equipment - Project standard construction equipment

Off-road Equipment - Project standard equipment

Off-road Equipment - Project standard equipment

Off-road Equipment - Project standard equipment

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

Off-road Equipment - Project standard equipment

Grading - Project cut and fill

Trips and VMT - Estimated vendor (cement delivery, material delivery), hauling, and worker trips based on construction details. Total estimated 1,950 cy of export of fill, 200 concrete delivery trips, 140 construction material trips

Architectural Coating -

Vehicle Trips - Project involves a single-family residence, that would add an estimated one trip per day to local roadways per ITE Common Trip Generation Rates

Solid Waste - No solid waste generated by single-family residential pool. All solid waste associated with operation of single-family residence

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	70.00
tblConstructionPhase	NumDays	6.00	45.00
tblConstructionPhase	NumDays	220.00	41.00
tblConstructionPhase	NumDays	10.00	65.00
tblConstructionPhase	NumDays	220.00	85.00
tblConstructionPhase	NumDays	220.00	24.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	PhaseEndDate	9/14/2023	12/8/2023
tblConstructionPhase	PhaseEndDate	8/17/2023	5/5/2023
tblConstructionPhase	PhaseEndDate	9/30/2022	10/31/2022
tblConstructionPhase	PhaseEndDate	10/13/2022	3/3/2023
tblConstructionPhase	PhaseEndDate	8/31/2023	9/1/2023
tblConstructionPhase	PhaseEndDate	10/5/2022	12/2/2022
tblConstructionPhase	PhaseStartDate	9/1/2023	9/4/2023
tblConstructionPhase	PhaseStartDate	10/14/2022	3/6/2023
tblConstructionPhase	PhaseStartDate	10/6/2022	12/5/2022
tblConstructionPhase	PhaseStartDate	8/18/2023	5/8/2023
tblConstructionPhase	PhaseStartDate	10/1/2022	11/1/2022
tblDemolition	PhaseName	Demolition	Bridge Construction
tblGrading	AcresOfGrading	6.00	1.49

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

tblGrading	AcresOfGrading	4.50	1.49
tblGrading	MaterialExported	0.00	1,000.00
tblGrading	MaterialImported	0.00	250.00
tblGrading	PhaseName	Grading	Driveway Construction
tblGrading	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblLandUse	LandUseSquareFeet	1,800.00	6,764.00
tblLandUse	LotAcreage	0.32	0.83
tblOffRoadEquipment	OffRoadEquipmentType		Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		House Site Finish Work - Arch Coating
tblOffRoadEquipment	PhaseName	Paving	House Site Framing
tblOffRoadEquipment	PhaseName		Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName		House Site Framing
tblOffRoadEquipment	PhaseName	Grading	Driveway Construction
tblOffRoadEquipment	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction
tblOffRoadEquipment	PhaseName		Driveway Construction
tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	PhaseName		Driveway Construction
tblOffRoadEquipment	PhaseName		House Site Finish Work - Construction

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	PhaseName	Grading	Driveway Construction
tblOffRoadEquipment	PhaseName	Site Preparation	Driveway Caisson and Wall Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		Bridge Construction
tblOffRoadEquipment	PhaseName		House Site Grading
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	630.98
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	4.56	0.00
tblTripsAndVMT	PhaseName		Bridge Construction
tblTripsAndVMT	PhaseName		Driveway Caisson and Wall Construction
tblTripsAndVMT	PhaseName		Driveway Construction
tblTripsAndVMT	PhaseName		House Site Grading
tblTripsAndVMT	PhaseName		House Site Framing
tblTripsAndVMT	PhaseName		House Site Finish Work - Construction
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	320.00
tblTripsAndVMT	VendorTripNumber	11.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	320.00
tblTripsAndVMT	WorkerTripNumber	13.00	20.00
tblTripsAndVMT	WorkerTripNumber	8.00	30.00
tblTripsAndVMT	WorkerTripNumber	10.00	20.00
tblTripsAndVMT	WorkerTripNumber	28.00	30.00
tblTripsAndVMT	WorkerTripNumber	15.00	40.00
tblTripsAndVMT	WorkerTripNumber	6.00	40.00

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	9.54	1.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	8.55	1.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	9.44	1.00

2.0 Emissions Summary

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7704	29.4871	15.1549	0.0812	2.6730	0.6380	3.3110	0.9064	0.5936	1.4999	0.0000	8,662.2803	8,662.2803	0.8240	1.0217	8,987.3413
2023	1.4099	25.3141	14.3776	0.0788	2.6729	0.4983	3.1713	0.9064	0.4619	1.3683	0.0000	8,415.5558	8,415.5558	0.8223	0.9860	8,729.9447
Maximum	1.7704	29.4871	15.1549	0.0812	2.6730	0.6380	3.3110	0.9064	0.5936	1.4999	0.0000	8,662.2803	8,662.2803	0.8240	1.0217	8,987.3413

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7704	29.4871	15.1549	0.0812	2.6730	0.6380	3.3110	0.9064	0.5936	1.4999	0.0000	8,662.2803	8,662.2803	0.8240	1.0217	8,987.3413
2023	1.4099	25.3141	14.3776	0.0788	2.6729	0.4983	3.1713	0.9064	0.4619	1.3683	0.0000	8,415.5558	8,415.5558	0.8223	0.9860	8,729.9447
Maximum	1.7704	29.4871	15.1549	0.0812	2.6730	0.6380	3.3110	0.9064	0.5936	1.4999	0.0000	8,662.2803	8,662.2803	0.8240	1.0217	8,987.3413

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527
Energy	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Mobile	2.7200e-003	2.9900e-003	0.0205	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.9132	3.9132	3.0000e-004	2.2000e-004	3.9854
Total	0.2005	9.9700e-003	0.1058	8.0000e-005	3.9200e-003	9.8000e-004	4.9100e-003	1.0500e-003	9.8000e-004	2.0300e-003	0.0000	11.7650	11.7650	5.9000e-004	3.6000e-004	11.8866

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	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527
Energy	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Mobile	2.7200e-003	2.9900e-003	0.0205	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.9132	3.9132	3.0000e-004	2.2000e-004	3.9854
Total	0.2005	9.9700e-003	0.1058	8.0000e-005	3.9200e-003	9.8000e-004	4.9100e-003	1.0500e-003	9.8000e-004	2.0300e-003	0.0000	11.7650	11.7650	5.9000e-004	3.6000e-004	11.8866

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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
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	Bridge Construction	Building Construction	9/5/2022	10/31/2022	5	41	
2	Driveway Caisson and Wall Construction	Building Construction	11/1/2022	12/2/2022	5	24	
3	Driveway Construction	Paving	12/5/2022	3/3/2023	5	65	
4	House Site Grading	Grading	3/6/2023	5/5/2023	5	45	
5	House Site Framing	Building Construction	5/8/2023	9/1/2023	5	85	
6	House Site Finish Work - Construction	Building Construction	9/4/2023	12/8/2023	5	70	
7	House Site Finish Work - Arch Coating	Architectural Coating	12/11/2023	12/29/2023	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.83

Acres of Paving: 1.49

Residential Indoor: 13,697; Residential Outdoor: 4,566; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,894 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
House Site Finish Work - Arch Coating	Air Compressors	1	8.00	78	0.48
House Site Framing	Cement and Mortar Mixers	1	8.00	9	0.56
Driveway Caisson and Wall Construction	Bore/Drill Rigs	1	6.00	221	0.50
House Site Framing	Generator Sets	1	8.00	84	0.74

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

House Site Framing	Welders	1	8.00	46	0.45
House Site Framing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Construction	Graders	1	8.00	187	0.41
Driveway Caisson and Wall Construction	Graders	1	8.00	187	0.41
House Site Finish Work - Construction	Cement and Mortar Mixers	1	8.00	9	0.56
House Site Finish Work - Construction	Generator Sets	1	8.00	84	0.74
House Site Finish Work - Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Construction	Pavers	1	8.00	130	0.42
House Site Grading	Dumpers/Tenders	1	8.00	16	0.38
Driveway Construction	Rollers	1	8.00	80	0.38
House Site Finish Work - Construction	Welders	1	8.00	46	0.45
House Site Grading	Graders	1	8.00	187	0.41
Driveway Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Driveway Caisson and Wall Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Bridge Construction	Dumpers/Tenders	1	8.00	16	0.38
Bridge Construction	Excavators	1	8.00	158	0.38
Bridge Construction	Graders	1	8.00	187	0.41
House Site Grading	Tractors/Loaders/Backhoes	1	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
Bridge Construction	5	20.00	20.00	64.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Driveway Caisson and Wall Construction	3	30.00	20.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Driveway Construction	4	20.00	320.00	250.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Grading	8	30.00	0.00	300.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Framing	6	40.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
House Site Finish Work - Construction	1	40.00	320.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

House Site Finish Work - Arch Coating	0	10.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
---------------------------------------	---	-------	------	------	------	------	-------	--------	---------	------

3.1 Mitigation Measures Construction

3.2 Bridge Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6909	7.4991	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502		1,202.2345	1,202.2345	0.3757		1,211.6260
Total	0.6909	7.4991	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502		1,202.2345	1,202.2345	0.3757		1,211.6260

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.2 Bridge Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.0500e-003	0.2967	0.0700	9.8000e-004	0.0272	2.5700e-003	0.0298	7.4400e-003	2.4600e-003	9.9000e-003		111.0253	111.0253	7.1700e-003	0.0178	116.4993
Vendor	0.0429	1.1226	0.3662	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0104	0.0446		414.2369	414.2369	0.0167	0.0609	432.8014
Worker	0.0546	0.0373	0.4192	1.0800e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		109.0507	109.0507	4.2100e-003	3.6200e-003	110.2355
Total	0.1045	1.4565	0.8553	5.8500e-003	0.2721	0.0141	0.2862	0.0751	0.0135	0.0886		634.3128	634.3128	0.0281	0.0823	659.5362

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	0.6909	5.2576	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502	0.0000	1,202.2345	1,202.2345	0.3757		1,211.6260
Total	0.6909	5.2576	5.2277	0.0125		0.2705	0.2705		0.2502	0.2502	0.0000	1,202.2345	1,202.2345	0.3757		1,211.6260

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.2 Bridge Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.0500e-003	0.2967	0.0700	9.8000e-004	0.0272	2.5700e-003	0.0298	7.4400e-003	2.4600e-003	9.9000e-003		111.0253	111.0253	7.1700e-003	0.0178	116.4993
Vendor	0.0429	1.1226	0.3662	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0104	0.0446		414.2369	414.2369	0.0167	0.0609	432.8014
Worker	0.0546	0.0373	0.4192	1.0800e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		109.0507	109.0507	4.2100e-003	3.6200e-003	110.2355
Total	0.1045	1.4565	0.8553	5.8500e-003	0.2721	0.0141	0.2862	0.0751	0.0135	0.0886		634.3128	634.3128	0.0281	0.0823	659.5362

3.3 Driveway Caisson and Wall Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0674	0.0000	0.0674	7.3400e-003	0.0000	7.3400e-003			0.0000			0.0000
Off-Road	0.7272	8.4236	5.2108	0.0164		0.3006	0.3006		0.2766	0.2766		1,590.0336	1,590.0336	0.5143		1,602.8899
Total	0.7272	8.4236	5.2108	0.0164	0.0674	0.3006	0.3680	7.3400e-003	0.2766	0.2839		1,590.0336	1,590.0336	0.5143		1,602.8899

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.3 Driveway Caisson and Wall Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0429	1.1226	0.3662	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0104	0.0446		414.2369	414.2369	0.0167	0.0609	432.8014
Worker	0.0819	0.0560	0.6287	1.6200e-003	0.1895	9.8000e-004	0.1905	0.0503	9.0000e-004	0.0512		163.5760	163.5760	6.3100e-003	5.4300e-003	165.3533
Total	0.1247	1.1785	0.9949	5.4100e-003	0.3080	0.0119	0.3199	0.0844	0.0113	0.0957		577.8129	577.8129	0.0231	0.0663	598.1547

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					0.0674	0.0000	0.0674	7.3400e-003	0.0000	7.3400e-003			0.0000			0.0000
Off-Road	0.7272	6.7238	5.2108	0.0164		0.3006	0.3006		0.2766	0.2766	0.0000	1,590.0336	1,590.0336	0.5143		1,602.8899
Total	0.7272	6.7238	5.2108	0.0164	0.0674	0.3006	0.3680	7.3400e-003	0.2766	0.2839	0.0000	1,590.0336	1,590.0336	0.5143		1,602.8899

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.3 Driveway Caisson and Wall Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0429	1.1226	0.3662	3.7900e-003	0.1186	0.0109	0.1295	0.0341	0.0104	0.0446		414.2369	414.2369	0.0167	0.0609	432.8014
Worker	0.0819	0.0560	0.6287	1.6200e-003	0.1895	9.8000e-004	0.1905	0.0503	9.0000e-004	0.0512		163.5760	163.5760	6.3100e-003	5.4300e-003	165.3533
Total	0.1247	1.1785	0.9949	5.4100e-003	0.3080	0.0119	0.3199	0.0844	0.0113	0.0957		577.8129	577.8129	0.0231	0.0663	598.1547

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.9529	10.7580	8.7040	0.0171		0.4565	0.4565		0.4200	0.4200		1,651.8796	1,651.8796	0.5343		1,665.2359
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0129	10.7580	8.7040	0.0171	0.5825	0.4565	1.0390	0.3085	0.4200	0.7285		1,651.8796	1,651.8796	0.5343		1,665.2359

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0174	0.7310	0.1724	2.4200e-003	0.0670	6.3300e-003	0.0733	0.0183	6.0600e-003	0.0244		273.5599	273.5599	0.0177	0.0438	287.0475
Vendor	0.6856	17.9608	5.8593	0.0606	1.8972	0.1745	2.0717	0.5460	0.1669	0.7129		6,627.7901	6,627.7901	0.2679	0.9743	6,924.8224
Worker	0.0546	0.0373	0.4192	1.0800e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		109.0507	109.0507	4.2100e-003	3.6200e-003	110.2355
Total	0.7575	18.7290	6.4509	0.0641	2.0905	0.1815	2.2720	0.5978	0.1736	0.7714		7,010.4007	7,010.4007	0.2898	1.0217	7,322.1054

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2022

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					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.9529	10.7580	8.7040	0.0171		0.4565	0.4565		0.4200	0.4200	0.0000	1,651.879 6	1,651.879 6	0.5343		1,665.235 9
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0129	10.7580	8.7040	0.0171	0.5825	0.4565	1.0390	0.3085	0.4200	0.7285	0.0000	1,651.879 6	1,651.879 6	0.5343		1,665.235 9

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0174	0.7310	0.1724	2.4200e-003	0.0670	6.3300e-003	0.0733	0.0183	6.0600e-003	0.0244		273.5599	273.5599	0.0177	0.0438	287.0475
Vendor	0.6856	17.9608	5.8593	0.0606	1.8972	0.1745	2.0717	0.5460	0.1669	0.7129		6,627.7901	6,627.7901	0.2679	0.9743	6,924.8224
Worker	0.0546	0.0373	0.4192	1.0800e-003	0.1263	6.5000e-004	0.1270	0.0335	6.0000e-004	0.0341		109.0507	109.0507	4.2100e-003	3.6200e-003	110.2355
Total	0.7575	18.7290	6.4509	0.0641	2.0905	0.1815	2.2720	0.5978	0.1736	0.7714		7,010.4007	7,010.4007	0.2898	1.0217	7,322.1054

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway 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					
Fugitive Dust					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.8805	9.6816	8.6593	0.0171		0.4037	0.4037		0.3714	0.3714		1,651.7567	1,651.7567	0.5342		1,665.1120
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9405	9.6816	8.6593	0.0171	0.5825	0.4037	0.9862	0.3085	0.3714	0.6800		1,651.7567	1,651.7567	0.5342		1,665.1120

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0100	0.6138	0.1618	2.3200e-003	0.0670	4.7700e-003	0.0718	0.0183	4.5600e-003	0.0229		263.6837	263.6837	0.0182	0.0423	276.7321
Vendor	0.4085	14.9856	5.1711	0.0583	1.8972	0.0892	1.9864	0.5460	0.0854	0.6313		6,394.3945	6,394.3945	0.2661	0.9404	6,681.2867
Worker	0.0508	0.0330	0.3855	1.0500e-003	0.1263	6.2000e-004	0.1269	0.0335	5.7000e-004	0.0341		105.7209	105.7209	3.8100e-003	3.3500e-003	106.8140
Total	0.4693	15.6325	5.7183	0.0617	2.0905	0.0946	2.1851	0.5978	0.0905	0.6883		6,763.7991	6,763.7991	0.2881	0.9860	7,064.8327

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5825	0.0000	0.5825	0.3085	0.0000	0.3085			0.0000			0.0000
Off-Road	0.8805	9.6816	8.6593	0.0171		0.4037	0.4037		0.3714	0.3714	0.0000	1,651.7567	1,651.7567	0.5342		1,665.1120
Paving	0.0601					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9405	9.6816	8.6593	0.0171	0.5825	0.4037	0.9862	0.3085	0.3714	0.6800	0.0000	1,651.7567	1,651.7567	0.5342		1,665.1120

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.4 Driveway Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0100	0.6138	0.1618	2.3200e-003	0.0670	4.7700e-003	0.0718	0.0183	4.5600e-003	0.0229		263.6837	263.6837	0.0182	0.0423	276.7321
Vendor	0.4085	14.9856	5.1711	0.0583	1.8972	0.0892	1.9864	0.5460	0.0854	0.6313		6,394.3945	6,394.3945	0.2661	0.9404	6,681.2867
Worker	0.0508	0.0330	0.3855	1.0500e-003	0.1263	6.2000e-004	0.1269	0.0335	5.7000e-004	0.0341		105.7209	105.7209	3.8100e-003	3.3500e-003	106.8140
Total	0.4693	15.6325	5.7183	0.0617	2.0905	0.0946	2.1851	0.5978	0.0905	0.6883		6,763.7991	6,763.7991	0.2881	0.9860	7,064.8327

3.5 House Site 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					0.0235	0.0000	0.0235	2.7100e-003	0.0000	2.7100e-003			0.0000			0.0000
Off-Road	0.6083	6.6533	4.1748	0.0105		0.2439	0.2439		0.2258	0.2258		1,003.3720	1,003.3720	0.3113		1,011.1555
Total	0.6083	6.6533	4.1748	0.0105	0.0235	0.2439	0.2674	2.7100e-003	0.2258	0.2285		1,003.3720	1,003.3720	0.3113		1,011.1555

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.5 House Site Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0173	1.0640	0.2804	4.0300e-003	0.1161	8.2600e-003	0.1244	0.0318	7.9100e-003	0.0397		457.0517	457.0517	0.0316	0.0733	479.6689
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	0.0762	0.0496	0.5782	1.5700e-003	0.1895	9.2000e-004	0.1904	0.0503	8.5000e-004	0.0511		158.5814	158.5814	5.7100e-003	5.0200e-003	160.2209
Total	0.0935	1.1135	0.8586	5.6000e-003	0.3056	9.1800e-003	0.3148	0.0820	8.7600e-003	0.0908		615.6331	615.6331	0.0373	0.0783	639.8898

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					0.0235	0.0000	0.0235	2.7100e-003	0.0000	2.7100e-003			0.0000			0.0000
Off-Road	0.6083	6.1887	4.1748	0.0105		0.2439	0.2439		0.2258	0.2258	0.0000	1,003.3720	1,003.3720	0.3113		1,011.1555
Total	0.6083	6.1887	4.1748	0.0105	0.0235	0.2439	0.2674	2.7100e-003	0.2258	0.2285	0.0000	1,003.3720	1,003.3720	0.3113		1,011.1555

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.5 House Site Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0173	1.0640	0.2804	4.0300e-003	0.1161	8.2600e-003	0.1244	0.0318	7.9100e-003	0.0397		457.0517	457.0517	0.0316	0.0733	479.6689
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	0.0762	0.0496	0.5782	1.5700e-003	0.1895	9.2000e-004	0.1904	0.0503	8.5000e-004	0.0511		158.5814	158.5814	5.7100e-003	5.0200e-003	160.2209
Total	0.0935	1.1135	0.8586	5.6000e-003	0.3056	9.1800e-003	0.3148	0.0820	8.7600e-003	0.0908		615.6331	615.6331	0.0373	0.0783	639.8898

3.6 House Site Framing - 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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.6 House Site Framing - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279

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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.6 House Site Framing - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279

3.7 House Site Finish Work - 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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675		1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.7 House Site Finish Work - Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4085	14.9856	5.1711	0.0583	1.8972	0.0892	1.9864	0.5460	0.0854	0.6313		6,394.3945	6,394.3945	0.2661	0.9404	6,681.2867
Worker	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.5101	15.0517	5.9420	0.0604	2.1498	0.0905	2.2402	0.6130	0.0865	0.6995		6,605.8364	6,605.8364	0.2737	0.9471	6,894.9146

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	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257
Total	0.7705	6.0400	7.8870	0.0130		0.2735	0.2735		0.2675	0.2675	0.0000	1,182.6051	1,182.6051	0.1528		1,186.4257

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.7 House Site Finish Work - Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.4085	14.9856	5.1711	0.0583	1.8972	0.0892	1.9864	0.5460	0.0854	0.6313		6,394.3945	6,394.3945	0.2661	0.9404	6,681.2867
Worker	0.1016	0.0661	0.7710	2.0900e-003	0.2526	1.2300e-003	0.2539	0.0670	1.1400e-003	0.0682		211.4419	211.4419	7.6100e-003	6.7000e-003	213.6279
Total	0.5101	15.0517	5.9420	0.0604	2.1498	0.0905	2.2402	0.6130	0.0865	0.6995		6,605.8364	6,605.8364	0.2737	0.9471	6,894.9146

3.8 House Site Finish Work - Arch Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253
Total	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944		375.2641	375.2641	0.0225		375.8253

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.8 House Site Finish Work - Arch Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0165	0.1927	5.2000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070
Total	0.0254	0.0165	0.1927	5.2000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070

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	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253
Total	0.2556	1.7373	2.4148	3.9600e-003		0.0944	0.0944		0.0944	0.0944	0.0000	375.2641	375.2641	0.0225		375.8253

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

3.8 House Site Finish Work - Arch Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0254	0.0165	0.1927	5.2000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070
Total	0.0254	0.0165	0.1927	5.2000e-004	8.2900e-003	3.1000e-004	8.6000e-003	3.2900e-003	2.8000e-004	3.5700e-003		52.8605	52.8605	1.9000e-003	1.6700e-003	53.4070

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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					
Mitigated	2.7200e-003	2.9900e-003	0.0205	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.9132	3.9132	3.0000e-004	2.2000e-004	3.9854
Unmitigated	2.7200e-003	2.9900e-003	0.0205	4.0000e-005	3.9200e-003	3.0000e-005	3.9600e-003	1.0500e-003	3.0000e-005	1.0800e-003		3.9132	3.9132	3.0000e-004	2.2000e-004	3.9854

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Single Family Housing	1.00	1.00	1.00	1,852	1,852
Total	1.00	1.00	1.00	1,852	1,852

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	6.60	5.50	6.40	33.00	48.00	19.00	52	39	9
Single Family Housing	8.30	4.50	4.90	25.60	9.90	64.50	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
Recreational Swimming Pool	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

Single Family Housing	0.492113	0.052876	0.208088	0.152800	0.029700	0.007146	0.010959	0.006131	0.000966	0.000597	0.030829	0.003523	0.004272
-----------------------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------	----------

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
NaturalGas Unmitigated	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Single Family Housing	65.4733	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Total		7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	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
Single Family Housing	0.0654733	7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485
Total		7.1000e-004	6.0300e-003	2.5700e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004		7.7027	7.7027	1.5000e-004	1.4000e-004	7.7485

6.0 Area Detail

6.1 Mitigation Measures Area

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range 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					
Mitigated	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527
Unmitigated	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527

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	0.0269					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1491	0.1491	1.4000e-004		0.1527
Total	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0269					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1677					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1491	0.1491	1.4000e-004		0.1527
Total	0.1971	9.5000e-004	0.0828	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1491	0.1491	1.4000e-004	0.0000	0.1527

7.0 Water Detail

7.1 Mitigation Measures Water

Goerner Single-Family Dwelling - Santa Barbara-South of Santa Ynez Range County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

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
