

Appendix B

Air Quality, GHG, and Energy Calcs

Rocklin College Park - Placer-Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Rocklin College Park
Placer-Sacramento County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	120.00	1000sqft	12.00	120,000.00	0
City Park	7.80	Acre	7.80	339,768.00	0
Apartments Mid Rise	848.00	Dwelling Unit	22.32	848,000.00	2425
Single Family Housing	342.00	Dwelling Unit	66.28	615,600.00	978

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See 'Mitigated' results herein for the unmitigated project results, with project characteristics that reduce emissions modeled.

Land Use - Land Use - 342 single-family residential; 848 multi-family residential; 120,000 sf of commercial; 7.8 acres of park. Total acreage = 108.4 acres.

Construction Phase - Construction Phase - Construction schedule based on schedule provided by project applicant. Schedule simplified for the purposes of modeling.

Trips and VMT -

Grading - Grading - On-site soil anticipated to be balanced (site is relatively flat). Therefore, no soil import/export modeled.

Vehicle Trips - Vehicle Trips - Trip rates provided by Fehr & Peers.

Woodstoves - Woodstoves - No wood hearths. Natural gas hearths in place of wood hearths.

Construction Off-road Equipment Mitigation - Construction Off-road Equipment Mitigation - Water exposed Area 2x daily; Vehicle Speed 15 mph or less (see PCAPCD Rules)

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Mobile Land Use Mitigation - Mobile Land Use Mitigation - 10.98 du/acre (Max of 1,190 units/108.4 acres); Increase diversity; 0.4 miles to down job center (i.e. campus); Increase transit accessibility (0.25 miles); Improve Ped network (project site and off-site).

Area Mitigation - Area Mitigation - No hearths. Use low-VOC content architectural coatings (per PCAPCD Rule 218).

Energy Mitigation - Energy Mitigation - Assume 16% reduction in lighting energy for high efficiency lighting (lower bound estimate in CAPCOA's guidance); Energy efficient appliances.

Water Mitigation - Water Mitigation - Install low-flow appliances; Use water-efficient irrigation systems (note - assume 20% reduction in irrigation water due to the City's adopted Model Water Efficient Landscape Ordinance (Hartin, Janet S. et al.)

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	300.00
tblConstructionPhase	NumDays	3,100.00	300.00
tblConstructionPhase	NumDays	310.00	67.00
tblConstructionPhase	NumDays	220.00	24.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	466.40	763.20
tblFireplaces	NumberGas	188.10	307.80
tblFireplaces	NumberWood	296.80	0.00
tblFireplaces	NumberWood	119.70	0.00
tblLandUse	LotAcreage	2.75	12.00
tblLandUse	LotAcreage	111.04	66.28
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.54	30.45

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tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	8.55	30.45
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	9.44	30.45
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentageReduction	6.1	20
tblWoodstoves	NumberCatalytic	42.40	0.00
tblWoodstoves	NumberCatalytic	17.10	0.00
tblWoodstoves	NumberNoncatalytic	42.40	0.00
tblWoodstoves	NumberNoncatalytic	17.10	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	3.3662	2.9971	3.6692	0.0104	0.8641	0.1128	0.9770	0.2721	0.1053	0.3774	0.0000	948.2193	948.2193	0.1047	0.0464	964.6618
2023	7.2377	2.6490	4.5266	0.0139	0.9431	0.0880	1.0311	0.2539	0.0831	0.3370	0.0000	1,280.3215	1,280.3215	0.0806	0.0733	1,304.1635
Maximum	7.2377	2.9971	4.5266	0.0139	0.9431	0.1128	1.0311	0.2721	0.1053	0.3774	0.0000	1,280.3215	1,280.3215	0.1047	0.0733	1,304.1635

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	3.3662	2.9970	3.6692	0.0104	0.6945	0.1128	0.8074	0.2048	0.1053	0.3101	0.0000	948.2189	948.2189	0.1047	0.0464	964.6614
2023	7.2377	2.6490	4.5266	0.0139	0.9431	0.0880	1.0311	0.2539	0.0831	0.3370	0.0000	1,280.3212	1,280.3212	0.0806	0.0733	1,304.1632
Maximum	7.2377	2.9970	4.5266	0.0139	0.9431	0.1128	1.0311	0.2539	0.1053	0.3370	0.0000	1,280.3212	1,280.3212	0.1047	0.0733	1,304.1632

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	9.38	0.00	8.44	12.80	0.00	9.42	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	4-22-2022	7-21-2022	1.3834	1.3834
2	7-22-2022	10-21-2022	2.4610	2.4610
3	10-22-2022	1-21-2023	3.2843	3.2843
4	1-22-2023	4-21-2023	3.1157	3.1157
5	4-22-2023	7-21-2023	3.1292	3.1292
6	7-22-2023	9-30-2023	2.3647	2.3647
		Highest	3.2843	3.2843

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.5110	0.8303	9.1490	5.1200e-003		0.1078	0.1078		0.1078	0.1078	0.0000	858.0085	858.0085	0.0301	0.0155	863.3686
Energy	0.0972	0.8367	0.3958	5.3000e-003		0.0672	0.0672		0.0672	0.0672	0.0000	1,625.2409	1,625.2409	0.1257	0.0306	1,637.5148
Mobile	6.0092	9.1231	57.1346	0.1136	10.9752	0.1032	11.0784	2.9403	0.0969	3.0372	0.0000	10,589.7680	10,589.7680	0.6775	0.5673	10,775.7536
Waste						0.0000	0.0000		0.0000	0.0000	173.4416	0.0000	173.4416	10.2501	0.0000	429.6941
Water						0.0000	0.0000		0.0000	0.0000	31.3641	72.5661	103.9303	3.2331	0.0775	207.8499
Total	13.6174	10.7900	66.6793	0.1240	10.9752	0.2782	11.2534	2.9403	0.2719	3.2122	204.8057	13,145.5835	13,350.3892	14.3165	0.6909	13,914.1811

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	7.0615	0.1019	8.8390	4.7000e-004		0.0489	0.0489		0.0489	0.0489	0.0000	14.4356	14.4356	0.0139	0.0000	14.7827
Energy	0.0972	0.8367	0.3958	5.3000e-003		0.0672	0.0672		0.0672	0.0672	0.0000	1,596.8369	1,596.8369	0.1211	0.0301	1,608.8299
Mobile	5.6489	8.2420	51.7907	0.1006	9.6802	0.0919	9.7721	2.5934	0.0863	2.6797	0.0000	9,375.3063	9,375.3063	0.6271	0.5138	9,544.1023
Waste						0.0000	0.0000		0.0000	0.0000	173.4416	0.0000	173.4416	10.2501	0.0000	429.6941
Water						0.0000	0.0000		0.0000	0.0000	25.0913	58.0529	83.1442	2.5865	0.0620	166.2799
Total	12.8076	9.1805	61.0255	0.1064	9.6802	0.2080	9.8882	2.5934	0.2024	2.7958	198.5329	11,044.6316	11,243.1645	13.5987	0.6059	11,763.6890

	ROG	NOx	CO	SO2	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	5.95	14.92	8.48	14.25	11.80	25.22	12.13	11.80	25.56	12.96	3.06	15.98	15.78	5.01	12.30	15.46

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading and Site Preparation	Grading	4/22/2022	7/25/2022	5	67	
2	Building Construction	Building Construction	7/26/2022	9/18/2023	5	300	
3	Architectural Coating	Architectural Coating	8/26/2022	10/19/2023	5	300	

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4	Paving	Paving	9/19/2023	10/20/2023	5	24
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 201

Acres of Paving: 0

Residential Indoor: 2,963,790; Residential Outdoor: 987,930; Non-Residential Indoor: 180,000; Non-Residential Outdoor: 60,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Pavers	2	8.00	130	0.42
	Paving Equipment	2	8.00	132	0.36
	Rollers	2	8.00	80	0.38
Grading and Site Preparation	Excavators	2	8.00	158	0.38
Grading and Site Preparation	Graders	1	8.00	187	0.41
Grading and Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading and Site Preparation	Scrapers	2	8.00	367	0.48
Grading and Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

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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
Grading and Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	915.00	203.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	183.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Grading and Site Preparation - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3083	0.0000	0.3083	0.1224	0.0000	0.1224	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1214	1.3013	0.9729	2.0800e-003		0.0548	0.0548		0.0504	0.0504	0.0000	182.6909	182.6909	0.0591	0.0000	184.1681
Total	0.1214	1.3013	0.9729	2.0800e-003	0.3083	0.0548	0.3631	0.1224	0.0504	0.1728	0.0000	182.6909	182.6909	0.0591	0.0000	184.1681

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3.2 Grading and Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.3100e-003	0.0164	5.0000e-005	5.2600e-003	3.0000e-005	5.2900e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2653	4.2653	1.3000e-004	1.2000e-004	4.3053
Total	1.8600e-003	1.3100e-003	0.0164	5.0000e-005	5.2600e-003	3.0000e-005	5.2900e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2653	4.2653	1.3000e-004	1.2000e-004	4.3053

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					0.1387	0.0000	0.1387	0.0551	0.0000	0.0551	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1214	1.3013	0.9729	2.0800e-003		0.0548	0.0548		0.0504	0.0504	0.0000	182.6907	182.6907	0.0591	0.0000	184.1678
Total	0.1214	1.3013	0.9729	2.0800e-003	0.1387	0.0548	0.1935	0.0551	0.0504	0.1055	0.0000	182.6907	182.6907	0.0591	0.0000	184.1678

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3.2 Grading and Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8600e-003	1.3100e-003	0.0164	5.0000e-005	5.2600e-003	3.0000e-005	5.2900e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2653	4.2653	1.3000e-004	1.2000e-004	4.3053
Total	1.8600e-003	1.3100e-003	0.0164	5.0000e-005	5.2600e-003	3.0000e-005	5.2900e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2653	4.2653	1.3000e-004	1.2000e-004	4.3053

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0973	0.8901	0.9327	1.5400e-003		0.0461	0.0461		0.0434	0.0434	0.0000	132.0834	132.0834	0.0316	0.0000	132.8745
Total	0.0973	0.8901	0.9327	1.5400e-003		0.0461	0.0461		0.0434	0.0434	0.0000	132.0834	132.0834	0.0316	0.0000	132.8745

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	0.0216	0.6223	0.1854	2.4300e-003	0.0756	5.7000e-003	0.0813	0.0219	5.4500e-003	0.0273	0.0000	232.5268	232.5268	1.0000e-003	0.0352	243.0344
Worker	0.1449	0.1017	1.2756	3.6000e-003	0.4096	2.1700e-003	0.4117	0.1090	1.9900e-003	0.1110	0.0000	332.0277	332.0277	0.0104	9.5700e-003	335.1388
Total	0.1665	0.7241	1.4610	6.0300e-003	0.4852	7.8700e-003	0.4930	0.1309	7.4400e-003	0.1383	0.0000	564.5545	564.5545	0.0114	0.0448	578.1732

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	0.0973	0.8901	0.9327	1.5400e-003		0.0461	0.0461		0.0434	0.0434	0.0000	132.0832	132.0832	0.0316	0.0000	132.8743
Total	0.0973	0.8901	0.9327	1.5400e-003		0.0461	0.0461		0.0434	0.0434	0.0000	132.0832	132.0832	0.0316	0.0000	132.8743

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3.3 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0216	0.6223	0.1854	2.4300e-003	0.0756	5.7000e-003	0.0813	0.0219	5.4500e-003	0.0273	0.0000	232.5268	232.5268	1.0000e-003	0.0352	243.0344
Worker	0.1449	0.1017	1.2756	3.6000e-003	0.4096	2.1700e-003	0.4117	0.1090	1.9900e-003	0.1110	0.0000	332.0277	332.0277	0.0104	9.5700e-003	335.1388
Total	0.1665	0.7241	1.4610	6.0300e-003	0.4852	7.8700e-003	0.4930	0.1309	7.4400e-003	0.1383	0.0000	564.5545	564.5545	0.0114	0.0448	578.1732

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1463	1.3378	1.5107	2.5100e-003		0.0651	0.0651		0.0612	0.0612	0.0000	215.5784	215.5784	0.0513	0.0000	216.8605
Total	0.1463	1.3378	1.5107	2.5100e-003		0.0651	0.0651		0.0612	0.0612	0.0000	215.5784	215.5784	0.0513	0.0000	216.8605

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0217	0.8720	0.2764	3.8300e-003	0.1233	5.2400e-003	0.1286	0.0357	5.0100e-003	0.0407	0.0000	366.6331	366.6331	1.0500e-003	0.0554	383.1797
Worker	0.2199	0.1474	1.9360	5.6800e-003	0.6682	3.3500e-003	0.6716	0.1779	3.0900e-003	0.1810	0.0000	527.6913	527.6913	0.0154	0.0145	532.4018
Total	0.2415	1.0193	2.2125	9.5100e-003	0.7916	8.5900e-003	0.8002	0.2136	8.1000e-003	0.2217	0.0000	894.3244	894.3244	0.0164	0.0700	915.5816

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	0.1463	1.3378	1.5107	2.5100e-003		0.0651	0.0651		0.0612	0.0612	0.0000	215.5782	215.5782	0.0513	0.0000	216.8602
Total	0.1463	1.3378	1.5107	2.5100e-003		0.0651	0.0651		0.0612	0.0612	0.0000	215.5782	215.5782	0.0513	0.0000	216.8602

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0217	0.8720	0.2764	3.8300e-003	0.1233	5.2400e-003	0.1286	0.0357	5.0100e-003	0.0407	0.0000	366.6331	366.6331	1.0500e-003	0.0554	383.1797
Worker	0.2199	0.1474	1.9360	5.6800e-003	0.6682	3.3500e-003	0.6716	0.1779	3.0900e-003	0.1810	0.0000	527.6913	527.6913	0.0154	0.0145	532.4018
Total	0.2415	1.0193	2.2125	9.5100e-003	0.7916	8.5900e-003	0.8002	0.2136	8.1000e-003	0.2217	0.0000	894.3244	894.3244	0.0164	0.0700	915.5816

3.4 Architectural Coating - 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					
Archit. Coating	2.9467					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3100e-003	0.0641	0.0825	1.4000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	11.6173	11.6173	7.6000e-004	0.0000	11.6362
Total	2.9560	0.0641	0.0825	1.4000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	11.6173	11.6173	7.6000e-004	0.0000	11.6362

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

3.4 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0231	0.0162	0.2037	5.7000e-004	0.0654	3.5000e-004	0.0657	0.0174	3.2000e-004	0.0177	0.0000	53.0079	53.0079	1.6600e-003	1.5300e-003	53.5046
Total	0.0231	0.0162	0.2037	5.7000e-004	0.0654	3.5000e-004	0.0657	0.0174	3.2000e-004	0.0177	0.0000	53.0079	53.0079	1.6600e-003	1.5300e-003	53.5046

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.9467					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3100e-003	0.0641	0.0825	1.4000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	11.6173	11.6173	7.6000e-004	0.0000	11.6362
Total	2.9560	0.0641	0.0825	1.4000e-004		3.7200e-003	3.7200e-003		3.7200e-003	3.7200e-003	0.0000	11.6173	11.6173	7.6000e-004	0.0000	11.6362

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

3.4 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0231	0.0162	0.2037	5.7000e-004	0.0654	3.5000e-004	0.0657	0.0174	3.2000e-004	0.0177	0.0000	53.0079	53.0079	1.6600e-003	1.5300e-003	53.5046
Total	0.0231	0.0162	0.2037	5.7000e-004	0.0654	3.5000e-004	0.0657	0.0174	3.2000e-004	0.0177	0.0000	53.0079	53.0079	1.6600e-003	1.5300e-003	53.5046

3.4 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.7676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1362	0.1893	3.1000e-004		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	26.6815	26.6815	1.6000e-003	0.0000	26.7214
Total	6.7877	0.1362	0.1893	3.1000e-004		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	26.6815	26.6815	1.6000e-003	0.0000	26.7214

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

3.4 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0331	0.4351	1.2800e-003	0.1502	7.5000e-004	0.1509	0.0400	6.9000e-004	0.0407	0.0000	118.5887	118.5887	3.4500e-003	3.2600e-003	119.6473
Total	0.0494	0.0331	0.4351	1.2800e-003	0.1502	7.5000e-004	0.1509	0.0400	6.9000e-004	0.0407	0.0000	118.5887	118.5887	3.4500e-003	3.2600e-003	119.6473

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	6.7676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0200	0.1362	0.1893	3.1000e-004		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	26.6815	26.6815	1.6000e-003	0.0000	26.7214
Total	6.7877	0.1362	0.1893	3.1000e-004		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	26.6815	26.6815	1.6000e-003	0.0000	26.7214

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

3.4 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0494	0.0331	0.4351	1.2800e-003	0.1502	7.5000e-004	0.1509	0.0400	6.9000e-004	0.0407	0.0000	118.5887	118.5887	3.4500e-003	3.2600e-003	119.6473
Total	0.0494	0.0331	0.4351	1.2800e-003	0.1502	7.5000e-004	0.1509	0.0400	6.9000e-004	0.0407	0.0000	118.5887	118.5887	3.4500e-003	3.2600e-003	119.6473

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1223	0.1750	2.7000e-004		6.1200e-003	6.1200e-003		5.6300e-003	5.6300e-003	0.0000	24.0322	24.0322	7.7700e-003	0.0000	24.2266
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0124	0.1223	0.1750	2.7000e-004		6.1200e-003	6.1200e-003		5.6300e-003	5.6300e-003	0.0000	24.0322	24.0322	7.7700e-003	0.0000	24.2266

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

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.1000e-004	4.1000e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1162	1.1162	3.0000e-005	3.0000e-005	1.1262
Total	4.7000e-004	3.1000e-004	4.1000e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1162	1.1162	3.0000e-005	3.0000e-005	1.1262

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	0.0124	0.1223	0.1750	2.7000e-004		6.1200e-003	6.1200e-003		5.6300e-003	5.6300e-003	0.0000	24.0322	24.0322	7.7700e-003	0.0000	24.2265
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0124	0.1223	0.1750	2.7000e-004		6.1200e-003	6.1200e-003		5.6300e-003	5.6300e-003	0.0000	24.0322	24.0322	7.7700e-003	0.0000	24.2265

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2023****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.1000e-004	4.1000e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1162	1.1162	3.0000e-005	3.0000e-005	1.1262
Total	4.7000e-004	3.1000e-004	4.1000e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4200e-003	3.8000e-004	1.0000e-005	3.8000e-004	0.0000	1.1162	1.1162	3.0000e-005	3.0000e-005	1.1262

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.6489	8.2420	51.7907	0.1006	9.6802	0.0919	9.7721	2.5934	0.0863	2.6797	0.0000	9,375.306 3	9,375.306 3	0.6271	0.5138	9,544.102 3
Unmitigated	6.0092	9.1231	57.1346	0.1136	10.9752	0.1032	11.0784	2.9403	0.0969	3.0372	0.0000	10,589.76 80	10,589.76 80	0.6775	0.5673	10,775.75 36

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Single Family Housing	10,413.90	10,413.90	10,413.90	29,831,060	26,310,995
Total	10,413.90	10,413.90	10,413.90	29,831,060	26,310,995

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
City Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
General Office Building	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Single Family Housing	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	634.5659	634.5659	0.1027	0.0124	640.8407
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	662.9700	662.9700	0.1073	0.0130	669.5256
NaturalGas Mitigated	0.0972	0.8367	0.3958	5.3000e-003		0.0672	0.0672		0.0672	0.0672	0.0000	962.2709	962.2709	0.0184	0.0176	967.9892
NaturalGas Unmitigated	0.0972	0.8367	0.3958	5.3000e-003		0.0672	0.0672		0.0672	0.0672	0.0000	962.2709	962.2709	0.0184	0.0176	967.9892

Rocklin College Park - Placer-Sacramento County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.98496e+006	0.0431	0.3679	0.1566	2.3500e-003		0.0298	0.0298		0.0298	0.0298	0.0000	426.1080	426.1080	8.1700e-003	7.8100e-003	428.6402
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.956e+006	0.0106	0.0959	0.0805	5.8000e-004		7.2900e-003	7.2900e-003		7.2900e-003	7.2900e-003	0.0000	104.3796	104.3796	2.0000e-003	1.9100e-003	104.9999
Single Family Housing	8.09131e+006	0.0436	0.3728	0.1587	2.3800e-003		0.0301	0.0301		0.0301	0.0301	0.0000	431.7833	431.7833	8.2800e-003	7.9200e-003	434.3492
Total		0.0972	0.8367	0.3958	5.3100e-003		0.0672	0.0672		0.0672	0.0672	0.0000	962.2709	962.2709	0.0185	0.0176	967.9892

Rocklin College Park - Placer-Sacramento County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	7.98496e+006	0.0431	0.3679	0.1566	2.3500e-003		0.0298	0.0298		0.0298	0.0298	0.0000	426.1080	426.1080	8.1700e-003	7.8100e-003	428.6402
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	1.956e+006	0.0106	0.0959	0.0805	5.8000e-004		7.2900e-003	7.2900e-003		7.2900e-003	7.2900e-003	0.0000	104.3796	104.3796	2.0000e-003	1.9100e-003	104.9999
Single Family Housing	8.09131e+006	0.0436	0.3728	0.1587	2.3800e-003		0.0301	0.0301		0.0301	0.0301	0.0000	431.7833	431.7833	8.2800e-003	7.9200e-003	434.3492
Total		0.0972	0.8367	0.3958	5.3100e-003		0.0672	0.0672		0.0672	0.0672	0.0000	962.2709	962.2709	0.0185	0.0176	967.9892

Rocklin College Park - Placer-Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	3.30187e+006	305.5019	0.0494	5.9900e-003	308.5228
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.1592e+006	107.2536	0.0174	2.1000e-003	108.3141
Single Family Housing	2.70433e+006	250.2146	0.0405	4.9100e-003	252.6888
Total		662.9700	0.1073	0.0130	669.5256

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	3.20128e+006	296.1941	0.0479	5.8100e-003	299.1230
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.09834e+006	101.6222	0.0164	1.9900e-003	102.6271
Single Family Housing	2.5588e+006	236.7496	0.0383	4.6400e-003	239.0907
Total		634.5659	0.1027	0.0124	640.8407

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Rocklin College Park - Placer-Sacramento County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.0615	0.1019	8.8390	4.7000e-004		0.0489	0.0489		0.0489	0.0489	0.0000	14.4356	14.4356	0.0139	0.0000	14.7827
Unmitigated	7.5110	0.8303	9.1490	5.1200e-003		0.1078	0.1078		0.1078	0.1078	0.0000	858.0085	858.0085	0.0301	0.0155	863.3686

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.9714					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.1879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0852	0.7284	0.3100	4.6500e-003		0.0589	0.0589		0.0589	0.0589	0.0000	843.5730	843.5730	0.0162	0.0155	848.5859
Landscaping	0.2664	0.1019	8.8390	4.7000e-004		0.0489	0.0489		0.0489	0.0489	0.0000	14.4356	14.4356	0.0139	0.0000	14.7827
Total	7.5110	0.8303	9.1490	5.1200e-003		0.1078	0.1078		0.1078	0.1078	0.0000	858.0085	858.0085	0.0301	0.0155	863.3686

Rocklin College Park - Placer-Sacramento County, Annual

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6071					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.1879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2664	0.1019	8.8390	4.7000e-004		0.0489	0.0489		0.0489	0.0489	0.0000	14.4356	14.4356	0.0139	0.0000	14.7827
Total	7.0614	0.1019	8.8390	4.7000e-004		0.0489	0.0489		0.0489	0.0489	0.0000	14.4356	14.4356	0.0139	0.0000	14.7827

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Rocklin College Park - Placer-Sacramento County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	83.1442	2.5865	0.0620	166.2799
Unmitigated	103.9303	3.2331	0.0775	207.8499

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	55.2506 / 34.8319	56.4692	1.8066	0.0433	114.5308
City Park	0 / 9.29355	3.0096	4.9000e-004	6.0000e-005	3.0393
General Office Building	21.328 / 13.072	21.6774	0.6974	0.0167	44.0893
Single Family Housing	22.2827 / 14.0478	22.7741	0.7286	0.0175	46.1905
Total		103.9303	3.2331	0.0775	207.8499

Rocklin College Park - Placer-Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	44.2005 / 27.8655	45.1754	1.4453	0.0346	91.6246
City Park	0 / 7.43484	2.4077	3.9000e-004	5.0000e-005	2.4315
General Office Building	17.0624 / 10.4576	17.3419	0.5579	0.0134	35.2715
Single Family Housing	17.8261 / 11.2382	18.2193	0.5829	0.0140	36.9524
Total		83.1442	2.5865	0.0620	166.2799

8.0 Waste Detail**8.1 Mitigation Measures Waste**

Rocklin College Park - Placer-Sacramento County, Annual

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	173.4416	10.2501	0.0000	429.6941
Unmitigated	173.4416	10.2501	0.0000	429.6941

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	390.08	79.1827	4.6796	0.0000	196.1718
City Park	0.67	0.1360	8.0400e-003	0.0000	0.3369
General Office Building	111.6	22.6538	1.3388	0.0000	56.1238
Single Family Housing	352.08	71.4691	4.2237	0.0000	177.0616
Total		173.4416	10.2501	0.0000	429.6941

Rocklin College Park - Placer-Sacramento County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	390.08	79.1827	4.6796	0.0000	196.1718
City Park	0.67	0.1360	8.0400e-003	0.0000	0.3369
General Office Building	111.6	22.6538	1.3388	0.0000	56.1238
Single Family Housing	352.08	71.4691	4.2237	0.0000	177.0616
Total		173.4416	10.2501	0.0000	429.6941

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

Rocklin College Park - Placer-Sacramento County, Annual

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

Equipment Type	Number
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11.0 Vegetation

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Rocklin College Park
Placer-Sacramento County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	120.00	1000sqft	12.00	120,000.00	0
City Park	7.80	Acre	7.80	339,768.00	0
Apartments Mid Rise	848.00	Dwelling Unit	22.32	848,000.00	2425
Single Family Housing	342.00	Dwelling Unit	66.28	615,600.00	978

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See 'Mitigated' results herein for the unmitigated project results, with project characteristics that reduce emissions modeled.

Land Use - Land Use - 342 single-family residential; 848 multi-family residential; 120,000 sf of commercial; 7.8 acres of park. Total acreage = 108.4 acres.

Construction Phase - Construction Phase - Construction schedule based on schedule provided by project applicant. Schedule simplified for the purposes of modeling.

Trips and VMT -

Grading - Grading - On-site soil anticipated to be balanced (site is relatively flat). Therefore, no soil import/export modeled.

Vehicle Trips - Vehicle Trips - Trip rates provided by Fehr & Peers.

Woodstoves - Woodstoves - No wood hearths. Natural gas hearths in place of wood hearths.

Construction Off-road Equipment Mitigation - Construction Off-road Equipment Mitigation - Water exposed Area 2x daily; Vehicle Speed 15 mph or less (see PCAPCD Rules)

Rocklin College Park - Placer-Sacramento County, Summer

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

Mobile Land Use Mitigation - Mobile Land Use Mitigation - 10.98 du/acre (Max of 1,190 units/108.4 acres); Increase diversity; 0.4 miles to down job center (i.e. campus); Increase transit accessibility (0.25 miles); Improve Ped network (project site and off-site).

Area Mitigation - Area Mitigation - No hearths. Use low-VOC content architectural coatings (per PCAPCD Rule 218).

Energy Mitigation - Energy Mitigation - Assume 16% reduction in lighting energy for high efficiency lighting (lower bound estimate in CAPCOA's guidance); Energy efficient appliances.

Water Mitigation - Water Mitigation - Install low-flow appliances; Use water-efficient irrigation systems (note - assume 20% reduction in irrigation water due to the City's adopted Model Water Efficient Landscape Ordinance (Hartin, Janet S. et al.)

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	300.00
tblConstructionPhase	NumDays	3,100.00	300.00
tblConstructionPhase	NumDays	310.00	67.00
tblConstructionPhase	NumDays	220.00	24.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	466.40	763.20
tblFireplaces	NumberGas	188.10	307.80
tblFireplaces	NumberWood	296.80	0.00
tblFireplaces	NumberWood	119.70	0.00
tblLandUse	LotAcreage	2.75	12.00
tblLandUse	LotAcreage	111.04	66.28
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.54	30.45

Rocklin College Park - Placer-Sacramento County, Summer

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

tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	8.55	30.45
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	9.44	30.45
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentReduction	6.1	20
tblWoodstoves	NumberCatalytic	42.40	0.00
tblWoodstoves	NumberCatalytic	17.10	0.00
tblWoodstoves	NumberNoncatalytic	42.40	0.00
tblWoodstoves	NumberNoncatalytic	17.10	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	70.5257	38.8780	51.4976	0.1547	10.3954	1.6357	11.4315	3.6973	1.5049	5.2022	0.0000	15,697.33 22	15,697.33 22	1.9483	0.8847	15,982.80 08
2023	69.9903	26.2940	48.9561	0.1506	10.3954	0.8701	11.2654	2.7885	0.8229	3.6114	0.0000	15,326.67 95	15,326.67 95	0.8390	0.8471	15,600.07 76
Maximum	70.5257	38.8780	51.4976	0.1547	10.3954	1.6357	11.4315	3.6973	1.5049	5.2022	0.0000	15,697.33 22	15,697.33 22	1.9483	0.8847	15,982.80 08

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	70.5257	38.8780	51.4976	0.1547	10.3954	1.6357	11.4315	2.7885	1.5049	3.7689	0.0000	15,697.33 22	15,697.33 22	1.9483	0.8847	15,982.80 08
2023	69.9903	26.2940	48.9561	0.1506	10.3954	0.8701	11.2654	2.7885	0.8229	3.6114	0.0000	15,326.67 95	15,326.67 95	0.8390	0.8471	15,600.07 76
Maximum	70.5257	38.8780	51.4976	0.1547	10.3954	1.6357	11.4315	2.7885	1.5049	3.7689	0.0000	15,697.33 22	15,697.33 22	1.9483	0.8847	15,982.80 08

Rocklin College Park - Placer-Sacramento County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.01	0.00	16.26	0.00	0.00	0.00	0.00	0.00	0.00

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	44.2680	18.8981	105.7714	0.1186		1.9800	1.9800		1.9800	1.9800	0.0000	22,856.8052	22,856.8052	0.6048	0.4158	22,995.8328
Energy	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149
Mobile	38.4719	45.8903	321.9717	0.6630	63.0494	0.5675	63.6169	16.8297	0.5328	17.3625		68,109.0521	68,109.0521	3.8134	3.2755	69,180.4904
Total	83.2727	69.3727	429.9117	0.8107	63.0494	2.9156	65.9650	16.8297	2.8809	19.7106	0.0000	96,778.0333	96,778.0333	4.5296	3.7979	98,023.0380

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	40.1930	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436	0.0000	176.8052	176.8052	0.1701	0.0000	181.0569
Energy	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149
Mobile	36.5508	41.4787	290.1482	0.5868	55.6096	0.5056	56.1152	14.8438	0.4746	15.3184		60,281.6167	60,281.6167	3.5089	2.9661	61,253.2336
Total	77.2766	47.1951	390.5282	0.6211	55.6096	1.4173	57.0268	14.8438	1.3863	16.2300	0.0000	66,270.5979	66,270.5979	3.7904	3.0727	67,281.0053

Rocklin College Park - Placer-Sacramento County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	7.20	31.97	9.16	23.39	11.80	51.39	13.55	11.80	51.88	17.66	0.00	31.52	31.52	16.32	19.10	31.36

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading and Site Preparation	Grading	4/22/2022	7/25/2022	5	67	
2	Building Construction	Building Construction	7/26/2022	9/18/2023	5	300	
3	Architectural Coating	Architectural Coating	8/26/2022	10/19/2023	5	300	
4	Paving	Paving	9/19/2023	10/20/2023	5	24	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 201****Acres of Paving: 0****Residential Indoor: 2,963,790; Residential Outdoor: 987,930; Non-Residential Indoor: 180,000; Non-Residential Outdoor: 60,000; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Pavers	2	8.00	130	0.42
	Paving Equipment	2	8.00	132	0.36
	Rollers	2	8.00	80	0.38
Grading and Site Preparation	Excavators	2	8.00	158	0.38
Grading and Site Preparation	Graders	1	8.00	187	0.41
Grading and Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading and Site Preparation	Scrapers	2	8.00	367	0.48

Rocklin College Park - Placer-Sacramento County, Summer

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

Grading and Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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
Grading and Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	915.00	203.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	183.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Grading and Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0632	0.0345	0.5487	1.5000e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		152.4034	152.4034	4.0600e-003	3.7400e-003	153.6184
Total	0.0632	0.0345	0.5487	1.5000e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		152.4034	152.4034	4.0600e-003	3.7400e-003	153.6184

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Grading and Site Preparation - 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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	4.1416	1.6349	5.7765	1.6442	1.5041	3.1483	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0632	0.0345	0.5487	1.5000e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		152.4034	152.4034	4.0600e-003	3.7400e-003	153.6184
Total	0.0632	0.0345	0.5487	1.5000e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		152.4034	152.4034	4.0600e-003	3.7400e-003	153.6184

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.333 6	2,554.333 6	0.6120		2,569.632 2

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	0.3858	10.3927	3.1967	0.0426	1.3756	0.0998	1.4754	0.3961	0.0955	0.4916		4,494.603 4	4,494.603 4	0.0196	0.6796	4,697.610 9
Worker	2.8892	1.5789	25.1033	0.0685	7.5165	0.0380	7.5545	1.9937	0.0350	2.0287		6,972.455 9	6,972.455 9	0.1857	0.1710	7,028.042 9
Total	3.2750	11.9716	28.2999	0.1111	8.8921	0.1378	9.0299	2.3898	0.1305	2.5203		11,467.05 93	11,467.05 93	0.2053	0.8505	11,725.65 38

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building 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					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.3858	10.3927	3.1967	0.0426	1.3756	0.0998	1.4754	0.3961	0.0955	0.4916		4,494.603 4	4,494.603 4	0.0196	0.6796	4,697.610 9
Worker	2.8892	1.5789	25.1033	0.0685	7.5165	0.0380	7.5545	1.9937	0.0350	2.0287		6,972.455 9	6,972.455 9	0.1857	0.1710	7,028.042 9
Total	3.2750	11.9716	28.2999	0.1111	8.8921	0.1378	9.0299	2.3898	0.1305	2.5203		11,467.05 93	11,467.05 93	0.2053	0.8505	11,725.65 38

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.2415	8.9226	2.9246	0.0411	1.3755	0.0562	1.4318	0.3961	0.0538	0.4499		4,341.6175	4,341.6175	0.0127	0.6562	4,537.4718
Worker	2.6852	1.4030	23.3137	0.0664	7.5165	0.0361	7.5526	1.9937	0.0332	2.0269		6,790.3367	6,790.3367	0.1680	0.1591	6,841.9423
Total	2.9267	10.3256	26.2383	0.1075	8.8921	0.0923	8.9844	2.3898	0.0870	2.4768		11,131.9542	11,131.9542	0.1807	0.8152	11,379.4141

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

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	0.2415	8.9226	2.9246	0.0411	1.3755	0.0562	1.4318	0.3961	0.0538	0.4499		4,341.6175	4,341.6175	0.0127	0.6562	4,537.4718
Worker	2.6852	1.4030	23.3137	0.0664	7.5165	0.0361	7.5526	1.9937	0.0332	2.0269		6,790.3367	6,790.3367	0.1680	0.1591	6,841.9423
Total	2.9267	10.3256	26.2383	0.1075	8.8921	0.0923	8.9844	2.3898	0.0870	2.4768		11,131.9542	11,131.9542	0.1807	0.8152	11,379.4141

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 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					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	64.9666	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.5779	0.3158	5.0207	0.0137	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,394.4912	1,394.4912	0.0372	0.0342	1,405.6086
Total	0.5779	0.3158	5.0207	0.0137	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,394.4912	1,394.4912	0.0372	0.0342	1,405.6086

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 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					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	64.9666	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.5779	0.3158	5.0207	0.0137	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,394.4912	1,394.4912	0.0372	0.0342	1,405.6086
Total	0.5779	0.3158	5.0207	0.0137	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,394.4912	1,394.4912	0.0372	0.0342	1,405.6086

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	64.9537	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.5370	0.2806	4.6627	0.0133	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,358.0673	1,358.0673	0.0336	0.0318	1,368.3885
Total	0.5370	0.2806	4.6627	0.0133	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,358.0673	1,358.0673	0.0336	0.0318	1,368.3885

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 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					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	64.9537	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.5370	0.2806	4.6627	0.0133	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,358.0673	1,358.0673	0.0336	0.0318	1,368.3885
Total	0.5370	0.2806	4.6627	0.0133	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,358.0673	1,358.0673	0.0336	0.0318	1,368.3885

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2023****Unmitigated Construction On-Site**

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

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	0.0440	0.0230	0.3822	1.0900e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		111.3170	111.3170	2.7500e-003	2.6100e-003	112.1630
Total	0.0440	0.0230	0.3822	1.0900e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		111.3170	111.3170	2.7500e-003	2.6100e-003	112.1630

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2023****Mitigated Construction On-Site**

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

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	0.0440	0.0230	0.3822	1.0900e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		111.3170	111.3170	2.7500e-003	2.6100e-003	112.1630
Total	0.0440	0.0230	0.3822	1.0900e-003	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		111.3170	111.3170	2.7500e-003	2.6100e-003	112.1630

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	36.5508	41.4787	290.1482	0.5868	55.6096	0.5056	56.1152	14.8438	0.4746	15.3184		60,281.61 67	60,281.61 67	3.5089	2.9661	61,253.23 36
Unmitigated	38.4719	45.8903	321.9717	0.6630	63.0494	0.5675	63.6169	16.8297	0.5328	17.3625		68,109.05 21	68,109.05 21	3.8134	3.2755	69,180.49 04

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartment Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Single Family Housing	10,413.90	10,413.90	10,413.90	29,831,060	26,310,995
Total	10,413.90	10,413.90	10,413.90	29,831,060	26,310,995

4.3 Trip Type Information

Rocklin College Park - Placer-Sacramento County, Summer

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
City Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
General Office Building	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Single Family Housing	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

Rocklin College Park - Placer-Sacramento County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149
NaturalGas Unmitigated	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	21876.6	0.2359	2.0161	0.8579	0.0129		0.1630	0.1630		0.1630	0.1630		2,573.7190	2,573.7190	0.0493	0.0472	2,589.0133
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	5358.9	0.0578	0.5254	0.4413	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.4593	630.4593	0.0121	0.0116	634.2058
Single Family Housing	22168	0.2391	2.0429	0.8693	0.0130		0.1652	0.1652		0.1652	0.1652		2,607.9978	2,607.9978	0.0500	0.0478	2,623.4958
Total		0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	21.8766	0.2359	2.0161	0.8579	0.0129		0.1630	0.1630		0.1630	0.1630		2,573.7190	2,573.7190	0.0493	0.0472	2,589.0133
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	5.3589	0.0578	0.5254	0.4413	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.4593	630.4593	0.0121	0.0116	634.2058
Single Family Housing	22.168	0.2391	2.0429	0.8693	0.0130		0.1652	0.1652		0.1652	0.1652		2,607.9978	2,607.9978	0.0500	0.0478	2,623.4958
Total		0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Rocklin College Park - Placer-Sacramento County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	40.1930	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436	0.0000	176.8052	176.8052	0.1701	0.0000	181.0569
Unmitigated	44.2680	18.8981	105.7714	0.1186		1.9800	1.9800		1.9800	1.9800	0.0000	22,856.8052	22,856.8052	0.6048	0.4158	22,995.8328

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	5.3229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.9065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.0790	17.7660	7.5600	0.1134		1.4364	1.4364		1.4364	1.4364	0.0000	22,680.0000	22,680.0000	0.4347	0.4158	22,814.7759
Landscaping	2.9596	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436		176.8052	176.8052	0.1701		181.0569
Total	44.2680	18.8981	105.7714	0.1186		1.9800	1.9800		1.9800	1.9800	0.0000	22,856.8052	22,856.8052	0.6048	0.4158	22,995.8328

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.9065					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	2.9596	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436		176.8052	176.8052	0.1701		181.0569
Total	40.1929	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436	0.0000	176.8052	176.8052	0.1701	0.0000	181.0569

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Rocklin College Park - Placer-Sacramento County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Rocklin College Park
Placer-Sacramento County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	120.00	1000sqft	12.00	120,000.00	0
City Park	7.80	Acre	7.80	339,768.00	0
Apartments Mid Rise	848.00	Dwelling Unit	22.32	848,000.00	2425
Single Family Housing	342.00	Dwelling Unit	66.28	615,600.00	978

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - See 'Mitigated' results herein for the unmitigated project results, with project characteristics that reduce emissions modeled.

Land Use - Land Use - 342 single-family residential; 848 multi-family residential; 120,000 sf of commercial; 7.8 acres of park. Total acreage = 108.4 acres.

Construction Phase - Construction Phase - Construction schedule based on schedule provided by project applicant. Schedule simplified for the purposes of modeling.

Trips and VMT -

Grading - Grading - On-site soil anticipated to be balanced (site is relatively flat). Therefore, no soil import/export modeled.

Vehicle Trips - Vehicle Trips - Trip rates provided by Fehr & Peers.

Woodstoves - Woodstoves - No wood hearths. Natural gas hearths in place of wood hearths.

Construction Off-road Equipment Mitigation - Construction Off-road Equipment Mitigation - Water exposed Area 2x daily; Vehicle Speed 15 mph or less (see PCAPCD Rules)

Rocklin College Park - Placer-Sacramento County, Winter

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

Mobile Land Use Mitigation - Mobile Land Use Mitigation - 10.98 du/acre (Max of 1,190 units/108.4 acres); Increase diversity; 0.4 miles to down job center (i.e. campus); Increase transit accessibility (0.25 miles); Improve Ped network (project site and off-site).

Area Mitigation - Area Mitigation - No hearths. Use low-VOC content architectural coatings (per PCAPCD Rule 218).

Energy Mitigation - Energy Mitigation - Assume 16% reduction in lighting energy for high efficiency lighting (lower bound estimate in CAPCOA's guidance); Energy efficient appliances.

Water Mitigation - Water Mitigation - Install low-flow appliances; Use water-efficient irrigation systems (note - assume 20% reduction in irrigation water due to the City's adopted Model Water Efficient Landscape Ordinance (Hartin, Janet S. et al.)

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	300.00
tblConstructionPhase	NumDays	3,100.00	300.00
tblConstructionPhase	NumDays	310.00	67.00
tblConstructionPhase	NumDays	220.00	24.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	466.40	763.20
tblFireplaces	NumberGas	188.10	307.80
tblFireplaces	NumberWood	296.80	0.00
tblFireplaces	NumberWood	119.70	0.00
tblLandUse	LotAcreage	2.75	12.00
tblLandUse	LotAcreage	111.04	66.28
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	9.54	30.45

Rocklin College Park - Placer-Sacramento County, Winter

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

tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	8.55	30.45
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	9.44	30.45
tblWaterMitigation	UseWaterEfficientIrrigationSystemPercentageReduction	6.1	20
tblWoodstoves	NumberCatalytic	42.40	0.00
tblWoodstoves	NumberCatalytic	17.10	0.00
tblWoodstoves	NumberNoncatalytic	42.40	0.00
tblWoodstoves	NumberNoncatalytic	17.10	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	70.2654	38.8866	48.8839	0.1466	10.3954	1.6357	11.4319	3.6973	1.5049	5.2022	0.0000	14,874.40 39	14,874.40 39	1.9490	0.9186	15,170.90 25
2023	69.7489	27.3805	46.5982	0.1429	10.3954	0.8703	11.2657	2.7885	0.8231	3.6117	0.0000	14,531.65 15	14,531.65 15	0.8738	0.8791	14,815.47 19
Maximum	70.2654	38.8866	48.8839	0.1466	10.3954	1.6357	11.4319	3.6973	1.5049	5.2022	0.0000	14,874.40 39	14,874.40 39	1.9490	0.9186	15,170.90 25

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	70.2654	38.8866	48.8839	0.1466	10.3954	1.6357	11.4319	2.7885	1.5049	3.7692	0.0000	14,874.40 39	14,874.40 39	1.9490	0.9186	15,170.90 25
2023	69.7489	27.3805	46.5982	0.1429	10.3954	0.8703	11.2657	2.7885	0.8231	3.6117	0.0000	14,531.65 15	14,531.65 15	0.8738	0.8791	14,815.47 19
Maximum	70.2654	38.8866	48.8839	0.1466	10.3954	1.6357	11.4319	2.7885	1.5049	3.7692	0.0000	14,874.40 39	14,874.40 39	1.9490	0.9186	15,170.90 25

Rocklin College Park - Placer-Sacramento County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.01	0.00	16.26	0.00	0.00	0.00	0.00	0.00	0.00

Rocklin College Park - Placer-Sacramento County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	44.2680	18.8981	105.7714	0.1186		1.9800	1.9800		1.9800	1.9800	0.0000	22,856.80 52	22,856.80 52	0.6048	0.4158	22,995.83 28
Energy	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.176 0	5,812.176 0	0.1114	0.1066	5,846.714 9
Mobile	32.5911	52.8334	333.9999	0.6157	63.0494	0.5679	63.6173	16.8297	0.5332	17.3629		63,265.75 80	63,265.75 80	4.4047	3.5727	64,440.52 68
Total	77.3919	76.3158	441.9399	0.7633	63.0494	2.9160	65.9654	16.8297	2.8813	19.7109	0.0000	91,934.73 92	91,934.73 92	5.1209	4.0950	93,283.07 44

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	40.1930	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436	0.0000	176.8052	176.8052	0.1701	0.0000	181.0569
Energy	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.176 0	5,812.176 0	0.1114	0.1066	5,846.714 9
Mobile	30.5293	47.7574	303.8292	0.5451	55.6096	0.5059	56.1155	14.8438	0.4750	15.3187		56,017.18 88	56,017.18 88	4.0922	3.2385	57,084.55 53
Total	71.2551	53.4738	404.2092	0.5794	55.6096	1.4176	57.0272	14.8438	1.3866	16.2304	0.0000	62,006.17 00	62,006.17 00	4.3737	3.3450	63,112.32 70

Rocklin College Park - Placer-Sacramento County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	7.93	29.93	8.54	24.10	11.80	51.38	13.55	11.80	51.87	17.66	0.00	32.55	32.55	14.59	18.31	32.34

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading and Site Preparation	Grading	4/22/2022	7/25/2022	5	67	
2	Building Construction	Building Construction	7/26/2022	9/18/2023	5	300	
3	Architectural Coating	Architectural Coating	8/26/2022	10/19/2023	5	300	
4	Paving	Paving	9/19/2023	10/20/2023	5	24	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 201****Acres of Paving: 0****Residential Indoor: 2,963,790; Residential Outdoor: 987,930; Non-Residential Indoor: 180,000; Non-Residential Outdoor: 60,000; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
	Pavers	2	8.00	130	0.42
	Paving Equipment	2	8.00	132	0.36
	Rollers	2	8.00	80	0.38
Grading and Site Preparation	Excavators	2	8.00	158	0.38
Grading and Site Preparation	Graders	1	8.00	187	0.41
Grading and Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Grading and Site Preparation	Scrapers	2	8.00	367	0.48

Rocklin College Park - Placer-Sacramento County, Winter

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

Grading and Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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
Grading and Site Preparation	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	915.00	203.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	183.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Grading and Site Preparation - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	9.2036	1.6349	10.8385	3.6538	1.5041	5.1579		6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0587	0.0431	0.4988	1.3500e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		137.3189	137.3189	4.7500e-003	4.3300e-003	138.7277
Total	0.0587	0.0431	0.4988	1.3500e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		137.3189	137.3189	4.7500e-003	4.3300e-003	138.7277

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Grading and Site Preparation - 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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	3.6248	38.8435	29.0415	0.0621	4.1416	1.6349	5.7765	1.6442	1.5041	3.1483	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158

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	0.0587	0.0431	0.4988	1.3500e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		137.3189	137.3189	4.7500e-003	4.3300e-003	138.7277
Total	0.0587	0.0431	0.4988	1.3500e-003	0.1643	8.3000e-004	0.1651	0.0436	7.6000e-004	0.0443		137.3189	137.3189	4.7500e-003	4.3300e-003	138.7277

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2022****Unmitigated Construction On-Site**

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

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	0.3712	11.1400	3.3240	0.0426	1.3756	0.1002	1.4758	0.3961	0.0958	0.4919		4,499.8170	4,499.8170	0.0189	0.6810	4,703.2134
Worker	2.6845	1.9712	22.8191	0.0618	7.5165	0.0380	7.5545	1.9937	0.0350	2.0287		6,282.3377	6,282.3377	0.2175	0.1980	6,346.7923
Total	3.0556	13.1112	26.1431	0.1044	8.8921	0.1382	9.0303	2.3898	0.1308	2.5206		10,782.1547	10,782.1547	0.2364	0.8790	11,050.0056

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building 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					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.3712	11.1400	3.3240	0.0426	1.3756	0.1002	1.4758	0.3961	0.0958	0.4919		4,499.8170	4,499.8170	0.0189	0.6810	4,703.2134
Worker	2.6845	1.9712	22.8191	0.0618	7.5165	0.0380	7.5545	1.9937	0.0350	2.0287		6,282.3377	6,282.3377	0.2175	0.1980	6,346.7923
Total	3.0556	13.1112	26.1431	0.1044	8.8921	0.1382	9.0303	2.3898	0.1308	2.5206		10,782.1547	10,782.1547	0.2364	0.8790	11,050.0056

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.209 9	2,555.209 9	0.6079		2,570.406 1

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	0.2244	9.5928	3.0314	0.0412	1.3755	0.0565	1.4320	0.3961	0.0541	0.4501		4,351.189 1	4,351.189 1	0.0119	0.6582	4,547.615 4
Worker	2.4983	1.7498	21.2598	0.0598	7.5165	0.0361	7.5526	1.9937	0.0332	2.0269		6,119.837 1	6,119.837 1	0.1977	0.1841	6,179.651 2
Total	2.7227	11.3427	24.2912	0.1010	8.8921	0.0926	8.9846	2.3898	0.0873	2.4770		10,471.02 62	10,471.02 62	0.2096	0.8423	10,727.26 66

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Building Construction - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.209 9	2,555.209 9	0.6079		2,570.406 1

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	0.2244	9.5928	3.0314	0.0412	1.3755	0.0565	1.4320	0.3961	0.0541	0.4501		4,351.189 1	4,351.189 1	0.0119	0.6582	4,547.615 4
Worker	2.4983	1.7498	21.2598	0.0598	7.5165	0.0361	7.5526	1.9937	0.0332	2.0269		6,119.837 1	6,119.837 1	0.1977	0.1841	6,179.651 2
Total	2.7227	11.3427	24.2912	0.1010	8.8921	0.0926	8.9846	2.3898	0.0873	2.4770		10,471.02 62	10,471.02 62	0.2096	0.8423	10,727.26 66

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 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					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	64.9666	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	0.5369	0.3942	4.5638	0.0124	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,256.4675	1,256.4675	0.0435	0.0396	1,269.3585
Total	0.5369	0.3942	4.5638	0.0124	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,256.4675	1,256.4675	0.0435	0.0396	1,269.3585

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 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					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	64.9666	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	0.5369	0.3942	4.5638	0.0124	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,256.4675	1,256.4675	0.0435	0.0396	1,269.3585
Total	0.5369	0.3942	4.5638	0.0124	1.5033	7.6000e-003	1.5109	0.3988	7.0000e-003	0.4057		1,256.4675	1,256.4675	0.0435	0.0396	1,269.3585

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	64.9537	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.4997	0.3500	4.2520	0.0120	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,223.9674	1,223.9674	0.0395	0.0368	1,235.9303
Total	0.4997	0.3500	4.2520	0.0120	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,223.9674	1,223.9674	0.0395	0.0368	1,235.9303

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Architectural Coating - 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					
Archit. Coating	64.7621					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	64.9537	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.4997	0.3500	4.2520	0.0120	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,223.9674	1,223.9674	0.0395	0.0368	1,235.9303
Total	0.4997	0.3500	4.2520	0.0120	1.5033	7.2100e-003	1.5105	0.3988	6.6400e-003	0.4054		1,223.9674	1,223.9674	0.0395	0.0368	1,235.9303

Rocklin College Park - Placer-Sacramento County, Winter

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

3.5 Paving - 2023

Unmitigated Construction On-Site

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

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	0.0410	0.0287	0.3485	9.8000e-004	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		100.3252	100.3252	3.2400e-003	3.0200e-003	101.3058
Total	0.0410	0.0287	0.3485	9.8000e-004	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		100.3252	100.3252	3.2400e-003	3.0200e-003	101.3058

Rocklin College Park - Placer-Sacramento County, Winter

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

3.5 Paving - 2023

Mitigated Construction On-Site

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

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	0.0410	0.0287	0.3485	9.8000e-004	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		100.3252	100.3252	3.2400e-003	3.0200e-003	101.3058
Total	0.0410	0.0287	0.3485	9.8000e-004	0.1232	5.9000e-004	0.1238	0.0327	5.4000e-004	0.0332		100.3252	100.3252	3.2400e-003	3.0200e-003	101.3058

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

Increase Density

Increase Diversity

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	30.5293	47.7574	303.8292	0.5451	55.6096	0.5059	56.1155	14.8438	0.4750	15.3187		56,017.1888	56,017.1888	4.0922	3.2385	57,084.5553
Unmitigated	32.5911	52.8334	333.9999	0.6157	63.0494	0.5679	63.6173	16.8297	0.5332	17.3629		63,265.7580	63,265.7580	4.4047	3.5727	64,440.5268

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartment Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Single Family Housing	10,413.90	10,413.90	10,413.90	29,831,060	26,310,995
Total	10,413.90	10,413.90	10,413.90	29,831,060	26,310,995

4.3 Trip Type Information

Rocklin College Park - Placer-Sacramento County, Winter

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Single Family Housing	10.80	7.30	7.50	42.60	21.00	36.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
City Park	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
General Office Building	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727
Single Family Housing	0.463296	0.061073	0.209857	0.155594	0.036099	0.008566	0.013676	0.011873	0.000564	0.000399	0.032288	0.000990	0.005727

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Install Energy Efficient Appliances

Rocklin College Park - Placer-Sacramento County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149
NaturalGas Unmitigated	0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	21876.6	0.2359	2.0161	0.8579	0.0129		0.1630	0.1630		0.1630	0.1630		2,573.7190	2,573.7190	0.0493	0.0472	2,589.0133
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	5358.9	0.0578	0.5254	0.4413	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.4593	630.4593	0.0121	0.0116	634.2058
Single Family Housing	22168	0.2391	2.0429	0.8693	0.0130		0.1652	0.1652		0.1652	0.1652		2,607.9978	2,607.9978	0.0500	0.0478	2,623.4958
Total		0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149

Rocklin College Park - Placer-Sacramento County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	21.8766	0.2359	2.0161	0.8579	0.0129		0.1630	0.1630		0.1630	0.1630		2,573.7190	2,573.7190	0.0493	0.0472	2,589.0133
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	5.3589	0.0578	0.5254	0.4413	3.1500e-003		0.0399	0.0399		0.0399	0.0399		630.4593	630.4593	0.0121	0.0116	634.2058
Single Family Housing	22.168	0.2391	2.0429	0.8693	0.0130		0.1652	0.1652		0.1652	0.1652		2,607.9978	2,607.9978	0.0500	0.0478	2,623.4958
Total		0.5328	4.5844	2.1686	0.0291		0.3681	0.3681		0.3681	0.3681		5,812.1760	5,812.1760	0.1114	0.1066	5,846.7149

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Rocklin College Park - Placer-Sacramento County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	40.1930	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436	0.0000	176.8052	176.8052	0.1701	0.0000	181.0569
Unmitigated	44.2680	18.8981	105.7714	0.1186		1.9800	1.9800		1.9800	1.9800	0.0000	22,856.8052	22,856.8052	0.6048	0.4158	22,995.8328

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	5.3229					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.9065					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	2.0790	17.7660	7.5600	0.1134		1.4364	1.4364		1.4364	1.4364	0.0000	22,680.0000	22,680.0000	0.4347	0.4158	22,814.7759
Landscaping	2.9596	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436		176.8052	176.8052	0.1701		181.0569
Total	44.2680	18.8981	105.7714	0.1186		1.9800	1.9800		1.9800	1.9800	0.0000	22,856.8052	22,856.8052	0.6048	0.4158	22,995.8328

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	33.9065					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	2.9596	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436		176.8052	176.8052	0.1701		181.0569
Total	40.1929	1.1321	98.2114	5.1900e-003		0.5436	0.5436		0.5436	0.5436	0.0000	176.8052	176.8052	0.1701	0.0000	181.0569

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Rocklin College Park - Placer-Sacramento County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

On-road Mobile (Operational) Energy Usage

Unmitigated:

Step 1:

Therefore:
Average Daily VMT:
72,085 Source: CalEEMod

Step 2:

Given:

Fleet Mix (CalEEMod Output)

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
50.4187%	3.8691%	22.0388%	12.1642%	2.0356%	0.5773%	3.1759%	4.7089%	0.1411%	0.1172%	0.5719%	0.0756%	0.1058%

And:

Gasoline MPG Factors for each Vehicle Class - Year 2023 (EMFAC2021 Output)

LDA	LDT1	LDT2	MDV	MCY	MH	OBUS
32.96710204	28.3433	26.26631	21.09460159	37.00992838	4.781737064	4.804696

Diesel MPG Factors for each Vehicle Class - Year 2023 (EMFAC2021 Output)

LHD1	LHD2	MHD	HHD	UBUS	SBUS
17.89580375	16.04512	9.573597	5.937424247	8.010074701	6.96991013

Therefore:
Weighted Average MPG Factors
Gasoline: 26.3 Diesel: 9.9

Step 3:

Therefore:

2,444	daily gallons of gasoline	791	daily gallons of diesel
or			
892,149	annual gallons of gasoline	288,729	annual gallons of diesel

Off-road Mobile (Construction) Energy Usage

Note: For the sake of simplicity, and as a conservative estimation, it was assumed that all off-road vehicles use diesel fuel as an energy source.
Site preparation and grading off-road mobile vehicle on-site gallons of fuel are calculated below.

Given Factor:	184.2 metric tons	CO2	(provided in CalEEMod Output File)
Conversion Factor:	2204.6262 pounds	per metric ton	
Intermediate Result:	406,021 pounds	CO2	
Conversion Factor:	22.38 pounds	CO2 per 1 gallon of diesel fuel	Source: U.S. EIA, 2016
Final Result:	18,142.14 gallons	diesel fuel	http://www.eia.gov/tools/faqs/faq.cfm?id=307&t=11

Mitigated Onsite Scenario	Total CO2 (MT/yr) (provided in CalEEMod Output File)
Site Preparation & Grading	184.17

On-road Mobile (Construction) Energy Usage - Site Preparation and Grading

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

20

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

216

Step 2: **Given:**

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2021

LDA	LDT1	LDT2
32.967102	28.343295	26.266312

Therefore:

Weighted Average Worker MPG Factor

30.1

Step 3: **Therefore:**

7.2 Worker daily gallons of gasoline

Step 4: **67 # of Days (CalEEMod Output)**

Therefore:

Result: 480 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Building Construction

Step 1: **Total Daily Worker Trips (CalEEMod Output)** **Total Daily Vendor Trips (CalEEMod Output)**

915	5%	46	203	5%	10
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Note: Assumes 5% of Plan Area under construction at given point in time (on average) until buildout.

Worker Trip Length (miles) (CalEEMod Output) **Vendor Trip Length (miles) (CalEEMod Output)**

10.8	7.3
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Therefore:

Average Worker Daily VMT: **Average Vendor Daily VMT:**

494	74
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Step 2: Given: **Assumed Fleet Mix for Workers** (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2	Fleet Mix for Workers (CalEEMod Output)	
			MHD	HHD
0.5	0.25	0.25	0%	100%

And:

MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2040

<u>Gasoline:</u>			<u>Diesel:</u>	
LDA	LDT1	LDT2	MHD	HHD
32.967102	28.3433	26.26631	9.573596644	5.937424

Therefore:

Weighted Average Worker (Gasoline) MPG Factor **Weighted Average Vendor (Diesel) MPG Factor**

30.1	5.9
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Step 3: **Therefore:** **Therefore:**

16 Worker daily gallons of gasoline	12 Vendor daily gallons of diesel
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Step 4: **300 # of Days (CalEEMod Output)**

Therefore: **Therefore:**

4,919 Total gallons of gasoline	3,744 Total gallons of diesel
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On-road Mobile (Construction) Energy Usage - Paving

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

15

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

162

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (from EMFAC2017) - Year 2040

LDA	LDT1	LDT2
32.967102	28.343295	26.266312

Therefore:

Weighted Average Worker MPG Factor

30.1

Step 3: **Therefore:**

5.4 Worker daily gallons of gasoline

Step 4: 24 # of Days (CalEEMod Output)

Therefore:

Result: 129 Total gallons of gasoline

On-road Mobile (Construction) Energy Usage - Architectural Coating

Step 1: **Total Daily Worker Trips (CalEEMod Output)**

183	5%	9
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Note: Assumes 5% of Plan Area under construction at given point in time (on average) until buildout.

Worker Trip Length (miles) (CalEEMod Output)

10.8

Therefore:

Average Worker Daily VMT:

99

Step 2: Given:

Assumed Fleet Mix for Workers (Percentage mix is provided on Appendix A: Calculation Details for CalEEMOD p. 15)

LDA	LDT1	LDT2
0.5	0.25	0.25

And:

Gasoline MPG Factors for each Vehicle Class (EMFAC2017 Output) - Year 2040

LDA	LDT1	LDT2
32.967102	28.343295	26.266312

Therefore:

Weighted Average Worker MPG Factor

30.1

Step 3: **Therefore:**

3.3 Worker daily gallons of gasoline

Step 4:

300

of Days (CalEEMod Output)

Therefore:

Result:

984

Total gallons of gasoline

Source: EMFAC2017 (v1.0.3) Emissions Inventory
Region Type: County
Region: Placer
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2011 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption	MPG
Placer	2023	All Other Buses	Aggregate	Aggregate	Diesel	43.01751775	2414.757267	361.3471	0.258511828	9.340993
Placer	2023	LDA	Aggregate	Aggregate	Gasoline	132178.3552	4954812.364	623632.7	150.2956601	32.9671
Placer	2023	LDA	Aggregate	Aggregate	Diesel	1587.314138	59257.12168	7426.461	1.144674712	51.76765
Placer	2023	LDT1	Aggregate	Aggregate	Gasoline	17890.70756	670060.7943	82138.75	23.64089264	28.3433
Placer	2023	LDT1	Aggregate	Aggregate	Diesel	11.79197542	156.6784806	38.82522	0.006258466	25.03464
Placer	2023	LDT2	Aggregate	Aggregate	Gasoline	60986.91557	2312977.096	282812.6	88.05869377	26.26631
Placer	2023	LDT2	Aggregate	Aggregate	Diesel	393.6116154	17727.22017	1921.311	0.459611148	38.57004
Placer	2023	LHD1	Aggregate	Aggregate	Gasoline	4694.390905	158360.3553	69939.43	18.77613039	8.434132
Placer	2023	LHD1	Aggregate	Aggregate	Diesel	5968.202055	196165.2953	75072.47	10.96152472	17.8958
Placer	2023	LHD2	Aggregate	Aggregate	Gasoline	623.3405977	21897.12202	9286.846	2.95650149	7.40643
Placer	2023	LHD2	Aggregate	Aggregate	Diesel	1906.706719	66806.66846	23983.97	4.163674791	16.04512
Placer	2023	MCY	Aggregate	Aggregate	Gasoline	9536.965511	62900.06748	19073.93	1.699545777	37.00993
Placer	2023	MDV	Aggregate	Aggregate	Gasoline	44435.88572	1470908.444	202964.3	69.72914077	21.0946
Placer	2023	MDV	Aggregate	Aggregate	Diesel	1189.57672	45003.54272	5668.986	1.589193773	28.31847
Placer	2023	MH	Aggregate	Aggregate	Gasoline	1136.868956	9543.989561	113.7324	1.995925212	4.781737
Placer	2023	MH	Aggregate	Aggregate	Diesel	554.5960001	4577.999179	55.4596	0.470994554	9.719856
Placer	2023	Motor Coach	Aggregate	Aggregate	Diesel	14.71854562	2075.450529	214.8908	0.317374859	6.53943
Placer	2023	OBUS	Aggregate	Aggregate	Gasoline	108.9211682	4964.381014	2179.295	1.033235102	4.804696
Placer	2023	PTO	Aggregate	Aggregate	Diesel	0	4591.921584	0	0.861689054	5.328978
Placer	2023	SBUS	Aggregate	Aggregate	Gasoline	26.32922937	1149.753935	105.3169	0.118990098	9.662602
Placer	2023	SBUS	Aggregate	Aggregate	Diesel	266.0476778	8300.144222	3070.153	1.042043817	7.965255
Placer	2023	T6 CAIRP heavy	Aggregate	Aggregate	Diesel	20.46960731	3944.700071	298.8563	0.339940947	11.60407 MHD
Placer	2023	T6 CAIRP small	Aggregate	Aggregate	Diesel	13.35732669	706.8083086	195.017	0.06454546	10.95055 9.573597
Placer	2023	T6 instate constructi	Aggregate	Aggregate	Diesel	159.9339794	10531.33652	723.0553	1.235494818	8.523983
Placer	2023	T6 instate constructi	Aggregate	Aggregate	Diesel	368.1184544	20648.25168	1664.249	2.406136381	8.581497
Placer	2023	T6 instate heavy	Aggregate	Aggregate	Diesel	551.8957606	85418.68919	6368.801	7.721441273	11.06253
Placer	2023	T6 instate small	Aggregate	Aggregate	Diesel	2163.574538	124476.7637	24967.35	12.06737958	10.31514
Placer	2023	T6 OOS heavy	Aggregate	Aggregate	Diesel	11.98992454	2318.007473	175.0529	0.199600708	11.61322
Placer	2023	T6 OOS small	Aggregate	Aggregate	Diesel	6.038623987	310.0282354	88.16391	0.028579202	10.84804
Placer	2023	T6 Public	Aggregate	Aggregate	Diesel	377.47444	5956.946778	1145.006	0.786377586	7.575174
Placer	2023	T6 utility	Aggregate	Aggregate	Diesel	34.45746962	577.4165526	396.2609	0.06211718	9.295601
Placer	2023	T6TS	Aggregate	Aggregate	Gasoline	332.1512687	17609.05577	6645.683	3.564768206	4.939748
Placer	2023	T7 Ag	Aggregate	Aggregate	Diesel	1.986577984	15.36436096	8.740943	0.002858449	5.37507 HHD
Placer	2023	T7 CAIRP	Aggregate	Aggregate	Diesel	681.9747753	124104.7146	9956.832	17.7336011	6.99828 5.937424
Placer	2023	T7 CAIRP constructio	Aggregate	Aggregate	Diesel	41.48507096	7564.750504	187.5524	1.254858421	6.02837
Placer	2023	T7 NNOOS	Aggregate	Aggregate	Diesel	765.7885162	151324.6777	11180.51	20.5939636	7.348011
Placer	2023	T7 NOOS	Aggregate	Aggregate	Diesel	270.1417624	48734.49344	3944.07	7.136374116	6.829027
Placer	2023	T7 other port	Aggregate	Aggregate	Diesel	2.456886475	407.6594462	18.67234	0.065286297	6.244181
Placer	2023	T7 POAK	Aggregate	Aggregate	Diesel	71.20327013	8627.608855	541.1449	1.435208435	6.011398
Placer	2023	T7 Public	Aggregate	Aggregate	Diesel	334.9355741	6784.487171	1015.971	1.271564679	5.335542
Placer	2023	T7 Single	Aggregate	Aggregate	Diesel	328.0059362	23125.83495	3785.143	3.397799303	6.806122
Placer	2023	T7 single constructio	Aggregate	Aggregate	Diesel	270.435552	18766.75461	1222.629	3.289577272	5.704914
Placer	2023	T7 SWCV	Aggregate	Aggregate	Diesel	160.943394	6563.14753	627.6792	2.497694546	2.627682
Placer	2023	T7 tractor	Aggregate	Aggregate	Diesel	335.3784765	43297.233	4259.307	5.622566993	7.700617
Placer	2023	T7 tractor constructi	Aggregate	Aggregate	Diesel	227.2585241	15480.92032	1027.427	2.727350341	5.676176
Placer	2023	T7 utility	Aggregate	Aggregate	Diesel	14.05168949	285.1696787	161.5944	0.047910798	5.952096
Placer	2023	T7IS	Aggregate	Aggregate	Gasoline	1.065954384	122.0828989	21.32762	0.027596354	4.423878
Placer	2023	UBUS	Aggregate	Aggregate	Gasoline	34.35818769	2762.519854	137.4328	0.655327132	4.215482
Placer	2023	UBUS	Aggregate	Aggregate	Diesel	59.88330865	6313.756909	239.5332	0.78822697	8.010075