

# Appendix A

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## Air Quality and Greenhouse Gas Emissions CalEEMod Output Files



El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

**El Camino College Fire Academy Operation  
South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	19.64	1000sqft	0.45	19,640.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use -
- Construction Phase - PD and Client provided data responses.
- Off-road Equipment -
- Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Grading - Client provided total area to be graded/disturbed- 110,500 sq-ft (2.54 acres)
- Vehicle Trips - Trip gen = 52 daily trips. Trip rate per 1,000 sq-ft = 52/19.64 = 2.65

Table Name	Column Name	Default Value	New Value
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**

tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	1.00	66.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	1.50	2.50
tblTripsAndVMT	HaulingTripNumber	420.00	213.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	2.65
tblVehicleTrips	SU_TR	1.21	2.65
tblVehicleTrips	WD_TR	20.25	2.65

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1417	0.8538	0.8076	1.5100e-003	0.0788	0.0392	0.1180	0.0141	0.0371	0.0511	0.0000	130.0211	130.0211	0.0279	1.6100e-003	131.1972
<b>Maximum</b>	<b>0.1417</b>	<b>0.8538</b>	<b>0.8076</b>	<b>1.5100e-003</b>	<b>0.0788</b>	<b>0.0392</b>	<b>0.1180</b>	<b>0.0141</b>	<b>0.0371</b>	<b>0.0511</b>	<b>0.0000</b>	<b>130.0211</b>	<b>130.0211</b>	<b>0.0279</b>	<b>1.6100e-003</b>	<b>131.1972</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1417	0.8538	0.8076	1.5100e-003	0.0788	0.0392	0.1180	0.0141	0.0371	0.0511	0.0000	130.0210	130.0210	0.0279	1.6100e-003	131.1971
<b>Maximum</b>	<b>0.1417</b>	<b>0.8538</b>	<b>0.8076</b>	<b>1.5100e-003</b>	<b>0.0788</b>	<b>0.0392</b>	<b>0.1180</b>	<b>0.0141</b>	<b>0.0371</b>	<b>0.0511</b>	<b>0.0000</b>	<b>130.0210</b>	<b>130.0210</b>	<b>0.0279</b>	<b>1.6100e-003</b>	<b>131.1971</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	0.4850	0.4850
2	6-1-2022	8-31-2022	0.4213	0.4213
3	9-1-2022	9-30-2022	0.0743	0.0743

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

		Highest	0.4850	0.4850
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0801	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Energy	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	57.1319	57.1319	3.7800e-003	7.1000e-004	57.4391
Mobile	0.0250	0.0292	0.2510	5.5000e-004	0.0592	4.1000e-004	0.0596	0.0158	3.8000e-004	0.0162	0.0000	51.2567	51.2567	3.4200e-003	2.3100e-003	52.0297
Waste						0.0000	0.0000		0.0000	0.0000	5.1824	0.0000	5.1824	0.3063	0.0000	12.8391
Water						0.0000	0.0000		0.0000	0.0000	0.3056	5.1933	5.4989	0.0318	7.9000e-004	6.5313
<b>Total</b>	<b>0.1067</b>	<b>0.0439</b>	<b>0.2636</b>	<b>6.4000e-004</b>	<b>0.0592</b>	<b>1.5200e-003</b>	<b>0.0607</b>	<b>0.0158</b>	<b>1.4900e-003</b>	<b>0.0173</b>	<b>5.4880</b>	<b>113.5824</b>	<b>119.0703</b>	<b>0.3453</b>	<b>3.8100e-003</b>	<b>128.8397</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0801	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004

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Energy	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	57.1319	57.1319	3.7800e-003	7.1000e-004	57.4391
Mobile	0.0250	0.0292	0.2510	5.5000e-004	0.0592	4.1000e-004	0.0596	0.0158	3.8000e-004	0.0162	0.0000	51.2567	51.2567	3.4200e-003	2.3100e-003	52.0297
Waste						0.0000	0.0000		0.0000	0.0000	5.1824	0.0000	5.1824	0.3063	0.0000	12.8391
Water						0.0000	0.0000		0.0000	0.0000	0.3056	5.1933	5.4989	0.0318	7.9000e-004	6.5313
<b>Total</b>	<b>0.1067</b>	<b>0.0439</b>	<b>0.2636</b>	<b>6.4000e-004</b>	<b>0.0592</b>	<b>1.5200e-003</b>	<b>0.0607</b>	<b>0.0158</b>	<b>1.4900e-003</b>	<b>0.0173</b>	<b>5.4880</b>	<b>113.5824</b>	<b>119.0703</b>	<b>0.3453</b>	<b>3.8100e-003</b>	<b>128.8397</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/11/2022	6	10	
2	Site Preparation	Site Preparation	3/14/2022	3/14/2022	6	1	
3	Grading	Grading	3/15/2022	3/16/2022	6	2	
4	Trenching and Utilities	Trenching	3/17/2022	4/11/2022	6	22	
5	Modular Building Installation	Building Construction	4/12/2022	6/27/2022	6	66	
6	Paving	Paving	6/28/2022	7/2/2022	6	5	
7	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
8	Fencing and Landscaping	Site Preparation	7/9/2022	9/23/2022	6	66	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 2.5**

**Acres of Paving: 0**

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**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 29,460; Non-Residential Outdoor: 9,820; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Trenching and Utilities	Plate Compactors	1	8.00	8	0.43
Trenching and Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching and Utilities	Trenchers	1	8.00	78	0.50
Modular Building Installation	Cranes	1	4.00	231	0.29
Modular Building Installation	Forklifts	2	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fencing and Landscaping	Graders	1	8.00	187	0.41
Fencing and Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**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
Demolition	4	10.00	4.00	213.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Utilities	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	9	8.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing and Landscaping	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0455	0.0000	0.0455	6.8900e-003	0.0000	6.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>0.0455</b>	<b>1.6900e-003</b>	<b>0.0472</b>	<b>6.8900e-003</b>	<b>1.6100e-003</b>	<b>8.5000e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0180	4.1000e-003	6.0000e-005	1.8300e-003	1.4000e-004	1.9700e-003	5.0000e-004	1.3000e-004	6.3000e-004	0.0000	6.4893	6.4893	3.8000e-004	1.0300e-003	6.8062
Vendor	4.0000e-005	9.9000e-004	3.2000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3748	0.3748	1.0000e-005	5.0000e-005	0.3914
Worker	1.7000e-004	1.4000e-004	1.7700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4435	0.4435	1.0000e-005	1.0000e-005	0.4474
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0192</b>	<b>6.1900e-003</b>	<b>6.0000e-005</b>	<b>2.5100e-003</b>	<b>1.5000e-004</b>	<b>2.6600e-003</b>	<b>6.9000e-004</b>	<b>1.4000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>7.3077</b>	<b>7.3077</b>	<b>4.0000e-004</b>	<b>1.0900e-003</b>	<b>7.6450</b>

**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					0.0455	0.0000	0.0455	6.8900e-003	0.0000	6.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>0.0455</b>	<b>1.6900e-003</b>	<b>0.0472</b>	<b>6.8900e-003</b>	<b>1.6100e-003</b>	<b>8.5000e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</b>

**Mitigated Construction Off-Site**

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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	4.6000e-004	0.0180	4.1000e-003	6.0000e-005	1.8300e-003	1.4000e-004	1.9700e-003	5.0000e-004	1.3000e-004	6.3000e-004	0.0000	6.4893	6.4893	3.8000e-004	1.0300e-003	6.8062
Vendor	4.0000e-005	9.9000e-004	3.2000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3748	0.3748	1.0000e-005	5.0000e-005	0.3914
Worker	1.7000e-004	1.4000e-004	1.7700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4435	0.4435	1.0000e-005	1.0000e-005	0.4474
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0192</b>	<b>6.1900e-003</b>	<b>6.0000e-005</b>	<b>2.5100e-003</b>	<b>1.5000e-004</b>	<b>2.6600e-003</b>	<b>6.9000e-004</b>	<b>1.4000e-004</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>7.3077</b>	<b>7.3077</b>	<b>4.0000e-004</b>	<b>1.0900e-003</b>	<b>7.6450</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>2.9000e-004</b>	<b>3.4700e-003</b>	<b>1.9800e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.0000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0375	0.0375	0.0000	1.0000e-005	0.0391
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0222	0.0222	0.0000	0.0000	0.0224
<b>Total</b>	<b>1.0000e-005</b>	<b>1.1000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0597</b>	<b>0.0597</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0615</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
<b>Total</b>	<b>2.9000e-004</b>	<b>3.4700e-003</b>	<b>1.9800e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.3000e-004</b>	<b>4.0000e-004</b>	<b>3.0000e-005</b>	<b>1.2000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4275</b>	<b>0.4275</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4310</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.0000e-004	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0375	0.0375	0.0000	1.0000e-005	0.0391
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0222	0.0222	0.0000	0.0000	0.0224
<b>Total</b>	<b>1.0000e-005</b>	<b>1.1000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0597</b>	<b>0.0597</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0615</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8400e-003	0.0000	5.8400e-003	2.6300e-003	0.0000	2.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0120	5.9400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482
<b>Total</b>	<b>1.0800e-003</b>	<b>0.0120</b>	<b>5.9400e-003</b>	<b>1.0000e-005</b>	<b>5.8400e-003</b>	<b>5.2000e-004</b>	<b>6.3600e-003</b>	<b>2.6300e-003</b>	<b>4.8000e-004</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2482</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	1.0000e-005	0.0783
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0710	0.0710	0.0000	0.0000	0.0716
<b>Total</b>	<b>4.0000e-005</b>	<b>2.2000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1459</b>	<b>0.1459</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1499</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8400e-003	0.0000	5.8400e-003	2.6300e-003	0.0000	2.6300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0800e-003	0.0120	5.9400e-003	1.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2482
<b>Total</b>	<b>1.0800e-003</b>	<b>0.0120</b>	<b>5.9400e-003</b>	<b>1.0000e-005</b>	<b>5.8400e-003</b>	<b>5.2000e-004</b>	<b>6.3600e-003</b>	<b>2.6300e-003</b>	<b>4.8000e-004</b>	<b>3.1100e-003</b>	<b>0.0000</b>	<b>1.2381</b>	<b>1.2381</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.2482</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	1.0000e-005	0.0783
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0710	0.0710	0.0000	0.0000	0.0716
<b>Total</b>	<b>4.0000e-005</b>	<b>2.2000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1459</b>	<b>0.1459</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1499</b>

**3.5 Trenching and Utilities - 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	6.2600e-003	0.0584	0.0555	8.0000e-005		3.7300e-003	3.7300e-003		3.4400e-003	3.4400e-003	0.0000	6.6128	6.6128	2.0600e-003	0.0000	6.6644
<b>Total</b>	<b>6.2600e-003</b>	<b>0.0584</b>	<b>0.0555</b>	<b>8.0000e-005</b>		<b>3.7300e-003</b>	<b>3.7300e-003</b>		<b>3.4400e-003</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>6.6128</b>	<b>6.6128</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>6.6644</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.0900e-003	3.5000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4123	0.4123	2.0000e-005	6.0000e-005	0.4305
Worker	2.9000e-004	2.4000e-004	3.1100e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.7806	0.7806	2.0000e-005	2.0000e-005	0.7874
<b>Total</b>	<b>3.3000e-004</b>	<b>1.3300e-003</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.0000e-005</b>	<b>1.1200e-003</b>	<b>3.0000e-004</b>	<b>2.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.1929</b>	<b>1.1929</b>	<b>4.0000e-005</b>	<b>8.0000e-005</b>	<b>1.2179</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.2600e-003	0.0584	0.0555	8.0000e-005		3.7300e-003	3.7300e-003		3.4400e-003	3.4400e-003	0.0000	6.6128	6.6128	2.0600e-003	0.0000	6.6644
<b>Total</b>	<b>6.2600e-003</b>	<b>0.0584</b>	<b>0.0555</b>	<b>8.0000e-005</b>		<b>3.7300e-003</b>	<b>3.7300e-003</b>		<b>3.4400e-003</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>6.6128</b>	<b>6.6128</b>	<b>2.0600e-003</b>	<b>0.0000</b>	<b>6.6644</b>

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

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
Vendor	4.0000e-005	1.0900e-003	3.5000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.4123	0.4123	2.0000e-005	6.0000e-005	0.4305
Worker	2.9000e-004	2.4000e-004	3.1100e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.7806	0.7806	2.0000e-005	2.0000e-005	0.7874
<b>Total</b>	<b>3.3000e-004</b>	<b>1.3300e-003</b>	<b>3.4600e-003</b>	<b>1.0000e-005</b>	<b>1.1100e-003</b>	<b>2.0000e-005</b>	<b>1.1200e-003</b>	<b>3.0000e-004</b>	<b>2.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.1929</b>	<b>1.1929</b>	<b>4.0000e-005</b>	<b>8.0000e-005</b>	<b>1.2179</b>

**3.6 Modular Building Installation - 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	0.0609	0.4733	0.5252	8.5000e-004		0.0235	0.0235		0.0225	0.0225	0.0000	70.3344	70.3344	0.0138	0.0000	70.6795
<b>Total</b>	<b>0.0609</b>	<b>0.4733</b>	<b>0.5252</b>	<b>8.5000e-004</b>		<b>0.0235</b>	<b>0.0235</b>		<b>0.0225</b>	<b>0.0225</b>	<b>0.0000</b>	<b>70.3344</b>	<b>70.3344</b>	<b>0.0138</b>	<b>0.0000</b>	<b>70.6795</b>

**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					

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	4.9000e-003	1.5900e-003	2.0000e-005	6.2000e-004	5.0000e-005	6.7000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.8553	1.8553	7.0000e-005	2.7000e-004	1.9374
Worker	8.8000e-004	7.1000e-004	9.3400e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.3418	2.3418	6.0000e-005	6.0000e-005	2.3622
<b>Total</b>	<b>1.0600e-003</b>	<b>5.6100e-003</b>	<b>0.0109</b>	<b>5.0000e-005</b>	<b>3.5200e-003</b>	<b>7.0000e-005</b>	<b>3.5800e-003</b>	<b>9.5000e-004</b>	<b>7.0000e-005</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>4.1971</b>	<b>4.1971</b>	<b>1.3000e-004</b>	<b>3.3000e-004</b>	<b>4.2996</b>

**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	0.0609	0.4733	0.5252	8.5000e-004		0.0235	0.0235		0.0225	0.0225	0.0000	70.3343	70.3343	0.0138	0.0000	70.6795
<b>Total</b>	<b>0.0609</b>	<b>0.4733</b>	<b>0.5252</b>	<b>8.5000e-004</b>		<b>0.0235</b>	<b>0.0235</b>		<b>0.0225</b>	<b>0.0225</b>	<b>0.0000</b>	<b>70.3343</b>	<b>70.3343</b>	<b>0.0138</b>	<b>0.0000</b>	<b>70.6795</b>

**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

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

Vendor	1.8000e-004	4.9000e-003	1.5900e-003	2.0000e-005	6.2000e-004	5.0000e-005	6.7000e-004	1.8000e-004	5.0000e-005	2.3000e-004	0.0000	1.8553	1.8553	7.0000e-005	2.7000e-004	1.9374
Worker	8.8000e-004	7.1000e-004	9.3400e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9100e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.3418	2.3418	6.0000e-005	6.0000e-005	2.3622
<b>Total</b>	<b>1.0600e-003</b>	<b>5.6100e-003</b>	<b>0.0109</b>	<b>5.0000e-005</b>	<b>3.5200e-003</b>	<b>7.0000e-005</b>	<b>3.5800e-003</b>	<b>9.5000e-004</b>	<b>7.0000e-005</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>4.1971</b>	<b>4.1971</b>	<b>1.3000e-004</b>	<b>3.3000e-004</b>	<b>4.2996</b>

**3.7 Paving - 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	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.6200e-003</b>	<b>0.0148</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.3492</b>	<b>2.3492</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3663</b>

**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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Vendor	1.0000e-005	2.5000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0937	0.0937	0.0000	1.0000e-005	0.0979
Worker	1.5000e-004	1.2000e-004	1.5900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3992	0.3992	1.0000e-005	1.0000e-005	0.4027
<b>Total</b>	<b>1.6000e-004</b>	<b>3.7000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4929</b>	<b>0.4929</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5005</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.6200e-003	0.0148	0.0176	3.0000e-005		7.4000e-004	7.4000e-004		6.9000e-004	6.9000e-004	0.0000	2.3492	2.3492	6.8000e-004	0.0000	2.3663
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>1.6200e-003</b>	<b>0.0148</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>7.4000e-004</b>	<b>7.4000e-004</b>		<b>6.9000e-004</b>	<b>6.9000e-004</b>	<b>0.0000</b>	<b>2.3492</b>	<b>2.3492</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3663</b>

**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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Vendor	1.0000e-005	2.5000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0937	0.0937	0.0000	1.0000e-005	0.0979
Worker	1.5000e-004	1.2000e-004	1.5900e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3992	0.3992	1.0000e-005	1.0000e-005	0.4027
<b>Total</b>	<b>1.6000e-004</b>	<b>3.7000e-004</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4929</b>	<b>0.4929</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.5005</b>

**3.8 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	0.0455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.0460</b>	<b>3.5200e-003</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

**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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Vendor	1.0000e-005	2.5000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0937	0.0937	0.0000	1.0000e-005	0.0979
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0444	0.0444	0.0000	0.0000	0.0447
<b>Total</b>	<b>3.0000e-005</b>	<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1381</b>	<b>0.1381</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1426</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.1000e-004	3.5200e-003	4.5300e-003	1.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.0460</b>	<b>3.5200e-003</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

**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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Vendor	1.0000e-005	2.5000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0937	0.0937	0.0000	1.0000e-005	0.0979
Worker	2.0000e-005	1.0000e-005	1.8000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0444	0.0444	0.0000	0.0000	0.0447
<b>Total</b>	<b>3.0000e-005</b>	<b>2.6000e-004</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1381</b>	<b>0.1381</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1426</b>

**3.9 Fencing and Landscaping - 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					0.0175	0.0000	0.0175	1.8900e-003	0.0000	1.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.2288	0.1307	3.2000e-004		8.4900e-003	8.4900e-003		7.8100e-003	7.8100e-003	0.0000	28.2163	28.2163	9.1300e-003	0.0000	28.4444
<b>Total</b>	<b>0.0191</b>	<b>0.2288</b>	<b>0.1307</b>	<b>3.2000e-004</b>	<b>0.0175</b>	<b>8.4900e-003</b>	<b>0.0260</b>	<b>1.8900e-003</b>	<b>7.8100e-003</b>	<b>9.7000e-003</b>	<b>0.0000</b>	<b>28.2163</b>	<b>28.2163</b>	<b>9.1300e-003</b>	<b>0.0000</b>	<b>28.4444</b>

**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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.5000e-004	5.8400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4636	1.4636	4.0000e-005	4.0000e-005	1.4764
<b>Total</b>	<b>5.5000e-004</b>	<b>4.5000e-004</b>	<b>5.8400e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.4636</b>	<b>1.4636</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4764</b>

**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					0.0175	0.0000	0.0175	1.8900e-003	0.0000	1.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0191	0.2288	0.1307	3.2000e-004		8.4900e-003	8.4900e-003		7.8100e-003	7.8100e-003	0.0000	28.2162	28.2162	9.1300e-003	0.0000	28.4444
<b>Total</b>	<b>0.0191</b>	<b>0.2288</b>	<b>0.1307</b>	<b>3.2000e-004</b>	<b>0.0175</b>	<b>8.4900e-003</b>	<b>0.0260</b>	<b>1.8900e-003</b>	<b>7.8100e-003</b>	<b>9.7000e-003</b>	<b>0.0000</b>	<b>28.2162</b>	<b>28.2162</b>	<b>9.1300e-003</b>	<b>0.0000</b>	<b>28.4444</b>

**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



El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.5000e-004	5.8400e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4636	1.4636	4.0000e-005	4.0000e-005	1.4764
<b>Total</b>	<b>5.5000e-004</b>	<b>4.5000e-004</b>	<b>5.8400e-003</b>	<b>2.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-005</b>	<b>1.8200e-003</b>	<b>4.8000e-004</b>	<b>1.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.4636</b>	<b>1.4636</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4764</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0250	0.0292	0.2510	5.5000e-004	0.0592	4.1000e-004	0.0596	0.0158	3.8000e-004	0.0162	0.0000	51.2567	51.2567	3.4200e-003	2.3100e-003	52.0297
Unmitigated	0.0250	0.0292	0.2510	5.5000e-004	0.0592	4.1000e-004	0.0596	0.0158	3.8000e-004	0.0162	0.0000	51.2567	51.2567	3.4200e-003	2.3100e-003	52.0297

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	52.05	52.05	52.05	157,198	157,198
<b>Total</b>	<b>52.05</b>	<b>52.05</b>	<b>52.05</b>	<b>157,198</b>	<b>157,198</b>

**4.3 Trip Type Information**

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.003706

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.1699	41.1699	3.4700e-003	4.2000e-004	41.3822
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	41.1699	41.1699	3.4700e-003	4.2000e-004	41.3822
NaturalGas Mitigated	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.9620	15.9620	3.1000e-004	2.9000e-004	16.0569
NaturalGas Unmitigated	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.9620	15.9620	3.1000e-004	2.9000e-004	16.0569

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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	299117	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.9620	15.9620	3.1000e-004	2.9000e-004	16.0569
<b>Total</b>		<b>1.6100e-003</b>	<b>0.0147</b>	<b>0.0123</b>	<b>9.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>15.9620</b>	<b>15.9620</b>	<b>3.1000e-004</b>	<b>2.9000e-004</b>	<b>16.0569</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	299117	1.6100e-003	0.0147	0.0123	9.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	15.9620	15.9620	3.1000e-004	2.9000e-004	16.0569
<b>Total</b>		<b>1.6100e-003</b>	<b>0.0147</b>	<b>0.0123</b>	<b>9.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>15.9620</b>	<b>15.9620</b>	<b>3.1000e-004</b>	<b>2.9000e-004</b>	<b>16.0569</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

Electricity Use	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Land Use	kWh/yr	MT/yr			
Junior College (2yr)	232145	41.1699	3.4700e-003	4.2000e-004	41.3822
<b>Total</b>		<b>41.1699</b>	<b>3.4700e-003</b>	<b>4.2000e-004</b>	<b>41.3822</b>

**Mitigated**

Land Use	Electricity Use	Total CO2	CH4	N2O	CO2e
Junior College (2yr)	232145	41.1699	3.4700e-003	4.2000e-004	41.3822
<b>Total</b>		<b>41.1699</b>	<b>3.4700e-003</b>	<b>4.2000e-004</b>	<b>41.3822</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Category		tons/yr								MT/yr						
Mitigated	0.0801	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
Unmitigated	0.0801	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004

**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	9.1000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0710					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
<b>Total</b>	<b>0.0801</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.2000e-004</b>

**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						

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Architectural Coating	9.1000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0710					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.2000e-004
<b>Total</b>	<b>0.0801</b>	<b>0.0000</b>	<b>2.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.2000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.4989	0.0318	7.9000e-004	6.5313
Unmitigated	5.4989	0.0318	7.9000e-004	6.5313

**7.2 Water by Land Use**

**Unmitigated**

Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

Land Use	Mgal	MT/yr			
Junior College (2yr)	0.963323 / 1.50674	5.4989	0.0318	7.9000e-004	6.5313
<b>Total</b>		<b>5.4989</b>	<b>0.0318</b>	<b>7.9000e-004</b>	<b>6.5313</b>

**Mitigated**

Land Use	Mgal	Total CO2	CH4	N2O	CO2e
Junior College (2yr)	0.963323 / 1.50674	5.4989	0.0318	7.9000e-004	6.5313
<b>Total</b>		<b>5.4989</b>	<b>0.0318</b>	<b>7.9000e-004</b>	<b>6.5313</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e

El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

	MT/yr			
Mitigated	5.1824	0.3063	0.0000	12.8391
Unmitigated	5.1824	0.3063	0.0000	12.8391

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	25.53	5.1824	0.3063	0.0000	12.8391
<b>Total</b>		<b>5.1824</b>	<b>0.3063</b>	<b>0.0000</b>	<b>12.8391</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	25.53	5.1824	0.3063	0.0000	12.8391
<b>Total</b>		<b>5.1824</b>	<b>0.3063</b>	<b>0.0000</b>	<b>12.8391</b>



El Camino College Fire Academy Operation - South Coast Air Basin, Annual

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

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

**El Camino College Fire Academy Operation  
South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	19.64	1000sqft	0.45	19,640.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -  
 Land Use -  
 Construction Phase - PD and Client provided data responses.  
 Off-road Equipment -  
 Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.  
 Off-road Equipment -  
 Off-road Equipment -  
 Off-road Equipment -  
 Grading - Client provided total area to be graded/disturbed- 110,500 sq-ft (2.54 acres)  
 Vehicle Trips - Trip gen = 52 daily trips. Trip rate per 1,000 sq-ft = 52/19.64 = 2.65

Table Name	Column Name	Default Value	New Value
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El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	1.00	66.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	1.50	2.50
tblTripsAndVMT	HaulingTripNumber	420.00	213.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	2.65
tblVehicleTrips	SU_TR	1.21	2.65
tblVehicleTrips	WD_TR	20.25	2.65

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	18.4213	14.5035	16.2665	0.0270	9.6044	0.7125	9.9718	2.6569	0.6826	3.1351	0.0000	2,763.1180	2,763.1180	0.4655	0.2418	2,842.7202
<b>Maximum</b>	<b>18.4213</b>	<b>14.5035</b>	<b>16.2665</b>	<b>0.0270</b>	<b>9.6044</b>	<b>0.7125</b>	<b>9.9718</b>	<b>2.6569</b>	<b>0.6826</b>	<b>3.1351</b>	<b>0.0000</b>	<b>2,763.1180</b>	<b>2,763.1180</b>	<b>0.4655</b>	<b>0.2418</b>	<b>2,842.7202</b>

**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	18.4213	14.5035	16.2665	0.0270	9.6044	0.7125	9.9718	2.6569	0.6826	3.1351	0.0000	2,763.1180	2,763.1180	0.4655	0.2418	2,842.7202
<b>Maximum</b>	<b>18.4213</b>	<b>14.5035</b>	<b>16.2665</b>	<b>0.0270</b>	<b>9.6044</b>	<b>0.7125</b>	<b>9.9718</b>	<b>2.6569</b>	<b>0.6826</b>	<b>3.1351</b>	<b>0.0000</b>	<b>2,763.1180</b>	<b>2,763.1180</b>	<b>0.4655</b>	<b>0.2418</b>	<b>2,842.7202</b>

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

**2.2 Overall Operational  
Unmitigated Operational**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
Energy	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
Mobile	0.1440	0.1474	1.4019	3.1600e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		321.6887	321.6887	0.0202	0.0133	326.1701
<b>Total</b>	<b>0.5918</b>	<b>0.2278</b>	<b>1.4714</b>	<b>3.6400e-003</b>	<b>0.3312</b>	<b>8.3500e-003</b>	<b>0.3395</b>	<b>0.0883</b>	<b>8.1900e-003</b>	<b>0.0964</b>		<b>418.1047</b>	<b>418.1047</b>	<b>0.0221</b>	<b>0.0151</b>	<b>423.1593</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
Energy	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
Mobile	0.1440	0.1474	1.4019	3.1600e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		321.6887	321.6887	0.0202	0.0133	326.1701
<b>Total</b>	<b>0.5918</b>	<b>0.2278</b>	<b>1.4714</b>	<b>3.6400e-003</b>	<b>0.3312</b>	<b>8.3500e-003</b>	<b>0.3395</b>	<b>0.0883</b>	<b>8.1900e-003</b>	<b>0.0964</b>		<b>418.1047</b>	<b>418.1047</b>	<b>0.0221</b>	<b>0.0151</b>	<b>423.1593</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/11/2022	6	10	
2	Site Preparation	Site Preparation	3/14/2022	3/14/2022	6	1	
3	Grading	Grading	3/15/2022	3/16/2022	6	2	
4	Trenching and Utilities	Trenching	3/17/2022	4/11/2022	6	22	
5	Modular Building Installation	Building Construction	4/12/2022	6/27/2022	6	66	
6	Paving	Paving	6/28/2022	7/2/2022	6	5	
7	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
8	Fencing and Landscaping	Site Preparation	7/9/2022	9/23/2022	6	66	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 2.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 29,460; Non-Residential Outdoor: 9,820; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Trenching and Utilities	Plate Compactors	1	8.00	8	0.43
Trenching and Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching and Utilities	Trenchers	1	8.00	78	0.50
Modular Building Installation	Cranes	1	4.00	231	0.29
Modular Building Installation	Forklifts	2	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fencing and Landscaping	Graders	1	8.00	187	0.41
Fencing and Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	4.00	213.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Utilities	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	9	8.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Fencing and Landscaping	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
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**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0946	0.0000	9.0946	1.3770	0.0000	1.3770			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>9.0946</b>	<b>0.3375</b>	<b>9.4321</b>	<b>1.3770</b>	<b>0.3225</b>	<b>1.6995</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

**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	0.0931	3.4240	0.8140	0.0130	0.3724	0.0273	0.3997	0.1021	0.0261	0.1282		1,430.4824	1,430.4824	0.0847	0.2273	1,500.3421
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0341	0.0241	0.3789	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.1145	102.1145	2.6700e-003	2.4400e-003	102.9078



El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

<b>Total</b>	<b>0.1345</b>	<b>3.6368</b>	<b>1.2560</b>	<b>0.0148</b>	<b>0.5098</b>	<b>0.0299</b>	<b>0.5397</b>	<b>0.1391</b>	<b>0.0286</b>	<b>0.1677</b>		<b>1,615.2155</b>	<b>1,615.2155</b>	<b>0.0904</b>	<b>0.2418</b>	<b>1,689.5201</b>
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**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					9.0946	0.0000	9.0946	1.3770	0.0000	1.3770			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>9.0946</b>	<b>0.3375</b>	<b>9.4321</b>	<b>1.3770</b>	<b>0.3225</b>	<b>1.6995</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

**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	0.0931	3.4240	0.8140	0.0130	0.3724	0.0273	0.3997	0.1021	0.0261	0.1282		1,430.4824	1,430.4824	0.0847	0.2273	1,500.3421
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0341	0.0241	0.3789	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.1145	102.1145	2.6700e-003	2.4400e-003	102.9078

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Total	0.1345	3.6368	1.2560	0.0148	0.5098	0.0299	0.5397	0.1391	0.0286	0.1677		1,615.2155	1,615.2155	0.0904	0.2418	1,689.5201
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**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0171	0.0120	0.1894	5.1000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		51.0572	51.0572	1.3400e-003	1.2200e-003	51.4539

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Total	0.0244	0.2008	0.2526	1.2800e-003	0.0815	2.2500e-003	0.0838	0.0222	2.1500e-003	0.0243		133.6759	133.6759	4.3800e-003	0.0132	137.7241
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0171	0.0120	0.1894	5.1000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		51.0572	51.0572	1.3400e-003	1.2200e-003	51.4539

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Total	0.0244	0.2008	0.2526	1.2800e-003	0.0815	2.2500e-003	0.0838	0.0222	2.1500e-003	0.0243		133.6759	133.6759	4.3800e-003	0.0132	137.7241
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**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.8422	0.0000	5.8422	2.6258	0.0000	2.6258			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
<b>Total</b>	<b>1.0832</b>	<b>12.0046</b>	<b>5.9360</b>	<b>0.0141</b>	<b>5.8422</b>	<b>0.5173</b>	<b>6.3595</b>	<b>2.6258</b>	<b>0.4759</b>	<b>3.1017</b>		<b>1,364.8198</b>	<b>1,364.8198</b>	<b>0.4414</b>		<b>1,375.8551</b>

**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	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Total	0.0346	0.2080	0.3662	1.5800e-003	0.1150	2.4600e-003	0.1175	0.0311	2.3300e-003	0.0334		164.3103	164.3103	5.1800e-003	0.0140	168.5964
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.8422	0.0000	5.8422	2.6258	0.0000	2.6258			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
<b>Total</b>	<b>1.0832</b>	<b>12.0046</b>	<b>5.9360</b>	<b>0.0141</b>	<b>5.8422</b>	<b>0.5173</b>	<b>6.3595</b>	<b>2.6258</b>	<b>0.4759</b>	<b>3.1017</b>	<b>0.0000</b>	<b>1,364.8198</b>	<b>1,364.8198</b>	<b>0.4414</b>		<b>1,375.8551</b>

**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	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

Total	0.0346	0.2080	0.3662	1.5800e-003	0.1150	2.4600e-003	0.1175	0.0311	2.3300e-003	0.0334		164.3103	164.3103	5.1800e-003	0.0140	168.5964
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**3.5 Trenching and Utilities - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130		662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>		<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0309</b>	<b>0.1136</b>	<b>0.3347</b>	<b>1.1900e-003</b>	<b>0.1022</b>	<b>1.5000e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>123.0009</b>	<b>123.0009</b>	<b>3.6600e-003</b>	<b>7.9500e-003</b>	<b>125.4613</b>

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130	0.0000	662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>	<b>0.0000</b>	<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0309</b>	<b>0.1136</b>	<b>0.3347</b>	<b>1.1900e-003</b>	<b>0.1022</b>	<b>1.5000e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>123.0009</b>	<b>123.0009</b>	<b>3.6600e-003</b>	<b>7.9500e-003</b>	<b>125.4613</b>

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

**3.6 Modular Building Installation - 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	1.8465	14.3427	15.9161	0.0256		0.7105	0.7105		0.6808	0.6808		2,349.4071	2,349.4071	0.4611		2,360.9349
<b>Total</b>	<b>1.8465</b>	<b>14.3427</b>	<b>15.9161</b>	<b>0.0256</b>		<b>0.7105</b>	<b>0.7105</b>		<b>0.6808</b>	<b>0.6808</b>		<b>2,349.4071</b>	<b>2,349.4071</b>	<b>0.4611</b>		<b>2,360.9349</b>

**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	5.4800e-003	0.1416	0.0474	5.7000e-004	0.0192	1.4400e-003	0.0207	5.5300e-003	1.3800e-003	6.9100e-003		61.9640	61.9640	2.2800e-003	9.0000e-003	64.7027
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0328</b>	<b>0.1608</b>	<b>0.3505</b>	<b>1.3800e-003</b>	<b>0.1086</b>	<b>1.9800e-003</b>	<b>0.1106</b>	<b>0.0292</b>	<b>1.8700e-003</b>	<b>0.0311</b>		<b>143.6556</b>	<b>143.6556</b>	<b>4.4200e-003</b>	<b>0.0110</b>	<b>147.0289</b>

**Mitigated Construction On-Site**



El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8465	14.3427	15.9161	0.0256		0.7105	0.7105		0.6808	0.6808	0.0000	2,349.4071	2,349.4071	0.4611		2,360.9349
<b>Total</b>	<b>1.8465</b>	<b>14.3427</b>	<b>15.9161</b>	<b>0.0256</b>		<b>0.7105</b>	<b>0.7105</b>		<b>0.6808</b>	<b>0.6808</b>	<b>0.0000</b>	<b>2,349.4071</b>	<b>2,349.4071</b>	<b>0.4611</b>		<b>2,360.9349</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4800e-003	0.1416	0.0474	5.7000e-004	0.0192	1.4400e-003	0.0207	5.5300e-003	1.3800e-003	6.9100e-003		61.9640	61.9640	2.2800e-003	9.0000e-003	64.7027
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0328</b>	<b>0.1608</b>	<b>0.3505</b>	<b>1.3800e-003</b>	<b>0.1086</b>	<b>1.9800e-003</b>	<b>0.1106</b>	<b>0.0292</b>	<b>1.8700e-003</b>	<b>0.0311</b>		<b>143.6556</b>	<b>143.6556</b>	<b>4.4200e-003</b>	<b>0.0110</b>	<b>147.0289</b>

**3.7 Paving - 2022**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</b>		<b>1,035.8246</b>	<b>1,035.8246</b>	<b>0.3017</b>		<b>1,043.3677</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0614	0.0434	0.6820	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1100e-003	0.0545		183.8060	183.8060	4.8100e-003	4.3900e-003	185.2340
<b>Total</b>	<b>0.0651</b>	<b>0.1377</b>	<b>0.7135</b>	<b>2.2000e-003</b>	<b>0.2140</b>	<b>2.1600e-003</b>	<b>0.2162</b>	<b>0.0571</b>	<b>2.0300e-003</b>	<b>0.0591</b>		<b>225.1154</b>	<b>225.1154</b>	<b>6.3300e-003</b>	<b>0.0104</b>	<b>228.3691</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</b>	<b>0.0000</b>	<b>1,035.8246</b>	<b>1,035.8246</b>	<b>0.3017</b>		<b>1,043.3677</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0614	0.0434	0.6820	1.8200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1100e-003	0.0545		183.8060	183.8060	4.8100e-003	4.3900e-003	185.2340
<b>Total</b>	<b>0.0651</b>	<b>0.1377</b>	<b>0.7135</b>	<b>2.2000e-003</b>	<b>0.2140</b>	<b>2.1600e-003</b>	<b>0.2162</b>	<b>0.0571</b>	<b>2.0300e-003</b>	<b>0.0591</b>		<b>225.1154</b>	<b>225.1154</b>	<b>6.3300e-003</b>	<b>0.0104</b>	<b>228.3691</b>

**3.8 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.2063					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
<b>Total</b>	<b>18.4108</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	6.8200e-003	4.8200e-003	0.0758	2.0000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.4229	20.4229	5.3000e-004	4.9000e-004	20.5816
<b>Total</b>	<b>0.0105</b>	<b>0.0992</b>	<b>0.1073</b>	<b>5.8000e-004</b>	<b>0.0352</b>	<b>1.0900e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>61.7322</b>	<b>61.7322</b>	<b>2.0500e-003</b>	<b>6.4900e-003</b>	<b>63.7167</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.2063					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
<b>Total</b>	<b>18.4108</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	6.8200e-003	4.8200e-003	0.0758	2.0000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.4229	20.4229	5.3000e-004	4.9000e-004	20.5816
<b>Total</b>	<b>0.0105</b>	<b>0.0992</b>	<b>0.1073</b>	<b>5.8000e-004</b>	<b>0.0352</b>	<b>1.0900e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>61.7322</b>	<b>61.7322</b>	<b>2.0500e-003</b>	<b>6.4900e-003</b>	<b>63.7167</b>

**3.9 Fencing and Landscaping - 2022**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	0.0171	0.0120	0.1894	5.1000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		51.0572	51.0572	1.3400e-003	1.2200e-003	51.4539
<b>Total</b>	<b>0.0171</b>	<b>0.0120</b>	<b>0.1894</b>	<b>5.1000e-004</b>	<b>0.0559</b>	<b>3.3000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.1000e-004</b>	<b>0.0151</b>		<b>51.0572</b>	<b>51.0572</b>	<b>1.3400e-003</b>	<b>1.2200e-003</b>	<b>51.4539</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	0.0171	0.0120	0.1894	5.1000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		51.0572	51.0572	1.3400e-003	1.2200e-003	51.4539
<b>Total</b>	<b>0.0171</b>	<b>0.0120</b>	<b>0.1894</b>	<b>5.1000e-004</b>	<b>0.0559</b>	<b>3.3000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.1000e-004</b>	<b>0.0151</b>		<b>51.0572</b>	<b>51.0572</b>	<b>1.3400e-003</b>	<b>1.2200e-003</b>	<b>51.4539</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1440	0.1474	1.4019	3.1600e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		321.6887	321.6887	0.0202	0.0133	326.1701
Unmitigated	0.1440	0.1474	1.4019	3.1600e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		321.6887	321.6887	0.0202	0.0133	326.1701

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Junior College (2yr)	52.05	52.05	52.05	157,198	157,198
Total	52.05	52.05	52.05	157,198	157,198

**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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.00370

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**



El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
NaturalGas Unmitigated	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846

**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					
Junior College (2yr)	819.499	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
<b>Total</b>		<b>8.8400e-003</b>	<b>0.0803</b>	<b>0.0675</b>	<b>4.8000e-004</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>96.4117</b>	<b>96.4117</b>	<b>1.8500e-003</b>	<b>1.7700e-003</b>	<b>96.9846</b>

**Mitigated**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	0.819499	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
<b>Total</b>		<b>8.8400e-003</b>	<b>0.0803</b>	<b>0.0675</b>	<b>4.8000e-004</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>96.4117</b>	<b>96.4117</b>	<b>1.8500e-003</b>	<b>1.7700e-003</b>	<b>96.9846</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
Unmitigated	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

SubCategory	lb/day										lb/day				
Architectural Coating	0.0499					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Consumer Products	0.3889					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005	4.5800e-003
<b>Total</b>	<b>0.4389</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>	<b>1.0000e-005</b>	<b>4.5800e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3889					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
<b>Total</b>	<b>0.4389</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>	<b>1.0000e-005</b>		<b>4.5800e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

El Camino College Fire Academy Operation - South Coast Air Basin, Summer

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

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

**El Camino College Fire Academy Operation  
South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	19.64	1000sqft	0.45	19,640.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2025
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use -
- Construction Phase - PD and Client provided data responses.
- Off-road Equipment -
- Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Grading - Client provided total area to be graded/disturbed- 110,500 sq-ft (2.54 acres)
- Vehicle Trips - Trip gen = 52 daily trips. Trip rate per 1,000 sq-ft = 52/19.64 = 2.65

Table Name	Column Name	Default Value	New Value
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El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	100.00	66.00
tblConstructionPhase	NumDays	1.00	66.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	1.50	2.50
tblTripsAndVMT	HaulingTripNumber	420.00	213.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	2.65
tblVehicleTrips	SU_TR	1.21	2.65
tblVehicleTrips	WD_TR	20.25	2.65

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	18.4217	14.5113	16.2411	0.0270	9.6044	0.7125	9.9719	2.6569	0.6826	3.1351	0.0000	2,757.8456	2,757.8456	0.4656	0.2420	2,837.5159
<b>Maximum</b>	<b>18.4217</b>	<b>14.5113</b>	<b>16.2411</b>	<b>0.0270</b>	<b>9.6044</b>	<b>0.7125</b>	<b>9.9719</b>	<b>2.6569</b>	<b>0.6826</b>	<b>3.1351</b>	<b>0.0000</b>	<b>2,757.8456</b>	<b>2,757.8456</b>	<b>0.4656</b>	<b>0.2420</b>	<b>2,837.5159</b>

**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	18.4217	14.5113	16.2411	0.0270	9.6044	0.7125	9.9719	2.6569	0.6826	3.1351	0.0000	2,757.8456	2,757.8456	0.4656	0.2420	2,837.5159
<b>Maximum</b>	<b>18.4217</b>	<b>14.5113</b>	<b>16.2411</b>	<b>0.0270</b>	<b>9.6044</b>	<b>0.7125</b>	<b>9.9719</b>	<b>2.6569</b>	<b>0.6826</b>	<b>3.1351</b>	<b>0.0000</b>	<b>2,757.8456</b>	<b>2,757.8456</b>	<b>0.4656</b>	<b>0.2420</b>	<b>2,837.5159</b>

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

**2.2 Overall Operational**

**Unmitigated Operational**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
Energy	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
Mobile	0.1398	0.1584	1.3660	3.0100e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		307.4158	307.4158	0.0208	0.0139	312.0738
<b>Total</b>	<b>0.5876</b>	<b>0.2388</b>	<b>1.4355</b>	<b>3.4900e-003</b>	<b>0.3312</b>	<b>8.3500e-003</b>	<b>0.3395</b>	<b>0.0883</b>	<b>8.1900e-003</b>	<b>0.0964</b>		<b>403.8318</b>	<b>403.8318</b>	<b>0.0227</b>	<b>0.0157</b>	<b>409.0630</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
Energy	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
Mobile	0.1398	0.1584	1.3660	3.0100e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		307.4158	307.4158	0.0208	0.0139	312.0738
<b>Total</b>	<b>0.5876</b>	<b>0.2388</b>	<b>1.4355</b>	<b>3.4900e-003</b>	<b>0.3312</b>	<b>8.3500e-003</b>	<b>0.3395</b>	<b>0.0883</b>	<b>8.1900e-003</b>	<b>0.0964</b>		<b>403.8318</b>	<b>403.8318</b>	<b>0.0227</b>	<b>0.0157</b>	<b>409.0630</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/11/2022	6	10	
2	Site Preparation	Site Preparation	3/14/2022	3/14/2022	6	1	
3	Grading	Grading	3/15/2022	3/16/2022	6	2	
4	Trenching and Utilities	Trenching	3/17/2022	4/11/2022	6	22	
5	Modular Building Installation	Building Construction	4/12/2022	6/27/2022	6	66	
6	Paving	Paving	6/28/2022	7/2/2022	6	5	
7	Architectural Coating	Architectural Coating	7/4/2022	7/8/2022	6	5	
8	Fencing and Landscaping	Site Preparation	7/9/2022	9/23/2022	6	66	

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 2.5**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 29,460; Non-Residential Outdoor: 9,820; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Trenching and Utilities	Plate Compactors	1	8.00	8	0.43
Trenching and Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Trenching and Utilities	Trenchers	1	8.00	78	0.50
Modular Building Installation	Cranes	1	4.00	231	0.29
Modular Building Installation	Forklifts	2	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Fencing and Landscaping	Graders	1	8.00	187	0.41
Fencing and Landscaping	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	4.00	213.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Utilities	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	9	8.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Fencing and Landscaping	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
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**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.0946	0.0000	9.0946	1.3770	0.0000	1.3770			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>9.0946</b>	<b>0.3375</b>	<b>9.4321</b>	<b>1.3770</b>	<b>0.3225</b>	<b>1.6995</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

**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	0.0908	3.5660	0.8283	0.0130	0.3724	0.0274	0.3998	0.1021	0.0262	0.1282		1,430.8832	1,430.8832	0.0845	0.2274	1,500.7605
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0362	0.0264	0.3450	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		96.4113	96.4113	2.7100e-003	2.5900e-003	97.2514

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Total	0.1342	3.7890	1.2387	0.0147	0.5098	0.0300	0.5398	0.1391	0.0286	0.1677		1,609.9431	1,609.9431	0.0903	0.2420	1,684.3158
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**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					9.0946	0.0000	9.0946	1.3770	0.0000	1.3770			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>9.0946</b>	<b>0.3375</b>	<b>9.4321</b>	<b>1.3770</b>	<b>0.3225</b>	<b>1.6995</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

**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	0.0908	3.5660	0.8283	0.0130	0.3724	0.0274	0.3998	0.1021	0.0262	0.1282		1,430.8832	1,430.8832	0.0845	0.2274	1,500.7605
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0362	0.0264	0.3450	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		96.4113	96.4113	2.7100e-003	2.5900e-003	97.2514

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Total	0.1342	3.7890	1.2387	0.0147	0.5098	0.0300	0.5398	0.1391	0.0286	0.1677		1,609.9431	1,609.9431	0.0903	0.2420	1,684.3158
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**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0181	0.0132	0.1725	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		48.2056	48.2056	1.3500e-003	1.3000e-003	48.6257

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Total	0.0253	0.2098	0.2379	1.2500e-003	0.0815	2.2600e-003	0.0838	0.0222	2.1600e-003	0.0244		130.8543	130.8543	4.3800e-003	0.0133	134.9296
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0181	0.0132	0.1725	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		48.2056	48.2056	1.3500e-003	1.3000e-003	48.6257

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Total	0.0253	0.2098	0.2379	1.2500e-003	0.0815	2.2600e-003	0.0838	0.0222	2.1600e-003	0.0244		130.8543	130.8543	4.3800e-003	0.0133	134.9296
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**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.8422	0.0000	5.8422	2.6258	0.0000	2.6258			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
<b>Total</b>	<b>1.0832</b>	<b>12.0046</b>	<b>5.9360</b>	<b>0.0141</b>	<b>5.8422</b>	<b>0.5173</b>	<b>6.3595</b>	<b>2.6258</b>	<b>0.4759</b>	<b>3.1017</b>		<b>1,364.8198</b>	<b>1,364.8198</b>	<b>0.4414</b>		<b>1,375.8551</b>

**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	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Total	0.0362	0.2177	0.3414	1.5300e-003	0.1150	2.4700e-003	0.1175	0.0311	2.3400e-003	0.0334		159.7777	159.7777	5.2000e-003	0.0141	164.1050
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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.8422	0.0000	5.8422	2.6258	0.0000	2.6258			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.8198	1,364.8198	0.4414		1,375.8551
<b>Total</b>	<b>1.0832</b>	<b>12.0046</b>	<b>5.9360</b>	<b>0.0141</b>	<b>5.8422</b>	<b>0.5173</b>	<b>6.3595</b>	<b>2.6258</b>	<b>0.4759</b>	<b>3.1017</b>	<b>0.0000</b>	<b>1,364.8198</b>	<b>1,364.8198</b>	<b>0.4414</b>		<b>1,375.8551</b>

**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	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011



El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

Total	0.0362	0.2177	0.3414	1.5300e-003	0.1150	2.4700e-003	0.1175	0.0311	2.3400e-003	0.0334		159.7777	159.7777	5.2000e-003	0.0141	164.1050
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**3.5 Trenching and Utilities - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130		662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>		<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0326</b>	<b>0.1194</b>	<b>0.3087</b>	<b>1.1400e-003</b>	<b>0.1022</b>	<b>1.5100e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>118.4533</b>	<b>118.4533</b>	<b>3.6900e-003</b>	<b>8.0800e-003</b>	<b>120.9531</b>

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130	0.0000	662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>	<b>0.0000</b>	<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0326</b>	<b>0.1194</b>	<b>0.3087</b>	<b>1.1400e-003</b>	<b>0.1022</b>	<b>1.5100e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>118.4533</b>	<b>118.4533</b>	<b>3.6900e-003</b>	<b>8.0800e-003</b>	<b>120.9531</b>

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

**3.6 Modular Building Installation - 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	1.8465	14.3427	15.9161	0.0256		0.7105	0.7105		0.6808	0.6808		2,349.4071	2,349.4071	0.4611		2,360.9349
<b>Total</b>	<b>1.8465</b>	<b>14.3427</b>	<b>15.9161</b>	<b>0.0256</b>		<b>0.7105</b>	<b>0.7105</b>		<b>0.6808</b>	<b>0.6808</b>		<b>2,349.4071</b>	<b>2,349.4071</b>	<b>0.4611</b>		<b>2,360.9349</b>

**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	5.4000e-003	0.1474	0.0490	5.7000e-004	0.0192	1.4500e-003	0.0207	5.5300e-003	1.3800e-003	6.9100e-003		61.9865	61.9865	2.2700e-003	9.0100e-003	64.7280
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0344</b>	<b>0.1686</b>	<b>0.3250</b>	<b>1.3300e-003</b>	<b>0.1086</b>	<b>1.9900e-003</b>	<b>0.1106</b>	<b>0.0292</b>	<b>1.8700e-003</b>	<b>0.0311</b>		<b>139.1155</b>	<b>139.1155</b>	<b>4.4400e-003</b>	<b>0.0111</b>	<b>142.5291</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.8465	14.3427	15.9161	0.0256		0.7105	0.7105		0.6808	0.6808	0.0000	2,349.4071	2,349.4071	0.4611			2,360.9349
<b>Total</b>	<b>1.8465</b>	<b>14.3427</b>	<b>15.9161</b>	<b>0.0256</b>		<b>0.7105</b>	<b>0.7105</b>		<b>0.6808</b>	<b>0.6808</b>	<b>0.0000</b>	<b>2,349.4071</b>	<b>2,349.4071</b>	<b>0.4611</b>			<b>2,360.9349</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-003	0.1474	0.0490	5.7000e-004	0.0192	1.4500e-003	0.0207	5.5300e-003	1.3800e-003	6.9100e-003		61.9865	61.9865	2.2700e-003	9.0100e-003	64.7280
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0344</b>	<b>0.1686</b>	<b>0.3250</b>	<b>1.3300e-003</b>	<b>0.1086</b>	<b>1.9900e-003</b>	<b>0.1106</b>	<b>0.0292</b>	<b>1.8700e-003</b>	<b>0.0311</b>		<b>139.1155</b>	<b>139.1155</b>	<b>4.4400e-003</b>	<b>0.0111</b>	<b>142.5291</b>

**3.7 Paving - 2022**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</b>		<b>1,035.8246</b>	<b>1,035.8246</b>	<b>0.3017</b>		<b>1,043.3677</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0652	0.0476	0.6210	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1100e-003	0.0545		173.5403	173.5403	4.8700e-003	4.6700e-003	175.0525
<b>Total</b>	<b>0.0688</b>	<b>0.1459</b>	<b>0.6537</b>	<b>2.1000e-003</b>	<b>0.2140</b>	<b>2.1700e-003</b>	<b>0.2162</b>	<b>0.0571</b>	<b>2.0300e-003</b>	<b>0.0591</b>		<b>214.8646</b>	<b>214.8646</b>	<b>6.3900e-003</b>	<b>0.0107</b>	<b>218.2045</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6469</b>	<b>5.9174</b>	<b>7.0348</b>	<b>0.0113</b>		<b>0.2961</b>	<b>0.2961</b>		<b>0.2758</b>	<b>0.2758</b>	<b>0.0000</b>	<b>1,035.8246</b>	<b>1,035.8246</b>	<b>0.3017</b>		<b>1,043.3677</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0652	0.0476	0.6210	1.7200e-003	0.2012	1.2000e-003	0.2024	0.0534	1.1100e-003	0.0545		173.5403	173.5403	4.8700e-003	4.6700e-003	175.0525
<b>Total</b>	<b>0.0688</b>	<b>0.1459</b>	<b>0.6537</b>	<b>2.1000e-003</b>	<b>0.2140</b>	<b>2.1700e-003</b>	<b>0.2162</b>	<b>0.0571</b>	<b>2.0300e-003</b>	<b>0.0591</b>		<b>214.8646</b>	<b>214.8646</b>	<b>6.3900e-003</b>	<b>0.0107</b>	<b>218.2045</b>

**3.8 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.2063					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
<b>Total</b>	<b>18.4108</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	7.2400e-003	5.2900e-003	0.0690	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.2823	19.2823	5.4000e-004	5.2000e-004	19.4503
<b>Total</b>	<b>0.0108</b>	<b>0.1036</b>	<b>0.1017</b>	<b>5.7000e-004</b>	<b>0.0352</b>	<b>1.1000e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>60.6066</b>	<b>60.6066</b>	<b>2.0600e-003</b>	<b>6.5300e-003</b>	<b>62.6023</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	18.2063					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
<b>Total</b>	<b>18.4108</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	7.2400e-003	5.2900e-003	0.0690	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.2823	19.2823	5.4000e-004	5.2000e-004	19.4503
<b>Total</b>	<b>0.0108</b>	<b>0.1036</b>	<b>0.1017</b>	<b>5.7000e-004</b>	<b>0.0352</b>	<b>1.1000e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>60.6066</b>	<b>60.6066</b>	<b>2.0600e-003</b>	<b>6.5300e-003</b>	<b>62.6023</b>

**3.9 Fencing and Landscaping - 2022**

**Unmitigated Construction On-Site**



El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	0.0181	0.0132	0.1725	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		48.2056	48.2056	1.3500e-003	1.3000e-003	48.6257
<b>Total</b>	<b>0.0181</b>	<b>0.0132</b>	<b>0.1725</b>	<b>4.8000e-004</b>	<b>0.0559</b>	<b>3.3000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.1000e-004</b>	<b>0.0151</b>		<b>48.2056</b>	<b>48.2056</b>	<b>1.3500e-003</b>	<b>1.3000e-003</b>	<b>48.6257</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

**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	0.0181	0.0132	0.1725	4.8000e-004	0.0559	3.3000e-004	0.0562	0.0148	3.1000e-004	0.0151		48.2056	48.2056	1.3500e-003	1.3000e-003	48.6257
<b>Total</b>	<b>0.0181</b>	<b>0.0132</b>	<b>0.1725</b>	<b>4.8000e-004</b>	<b>0.0559</b>	<b>3.3000e-004</b>	<b>0.0562</b>	<b>0.0148</b>	<b>3.1000e-004</b>	<b>0.0151</b>		<b>48.2056</b>	<b>48.2056</b>	<b>1.3500e-003</b>	<b>1.3000e-003</b>	<b>48.6257</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1398	0.1584	1.3660	3.0100e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		307.4158	307.4158	0.0208	0.0139	312.0738
Unmitigated	0.1398	0.1584	1.3660	3.0100e-003	0.3312	2.2300e-003	0.3334	0.0883	2.0700e-003	0.0903		307.4158	307.4158	0.0208	0.0139	312.0738

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	52.05	52.05	52.05	157,198	157,198
Total	52.05	52.05	52.05	157,198	157,198

**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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.00370

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
NaturalGas Unmitigated	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846

**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					
Junior College (2yr)	819.499	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
<b>Total</b>		<b>8.8400e-003</b>	<b>0.0803</b>	<b>0.0675</b>	<b>4.8000e-004</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>96.4117</b>	<b>96.4117</b>	<b>1.8500e-003</b>	<b>1.7700e-003</b>	<b>96.9846</b>

**Mitigated**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	0.819499	8.8400e-003	0.0803	0.0675	4.8000e-004		6.1100e-003	6.1100e-003		6.1100e-003	6.1100e-003		96.4117	96.4117	1.8500e-003	1.7700e-003	96.9846
<b>Total</b>		<b>8.8400e-003</b>	<b>0.0803</b>	<b>0.0675</b>	<b>4.8000e-004</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>6.1100e-003</b>	<b>6.1100e-003</b>		<b>96.4117</b>	<b>96.4117</b>	<b>1.8500e-003</b>	<b>1.7700e-003</b>	<b>96.9846</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
Unmitigated	0.4389	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

SubCategory	lb/day										lb/day				
Architectural Coating	0.0499					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Consumer Products	0.3889					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005	4.5800e-003
<b>Total</b>	<b>0.4389</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>	<b>1.0000e-005</b>	<b>4.5800e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0499					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3889					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.8000e-004	2.0000e-005	2.0000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.3000e-003	4.3000e-003	1.0000e-005		4.5800e-003
<b>Total</b>	<b>0.4389</b>	<b>2.0000e-005</b>	<b>2.0000e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>	<b>1.0000e-005</b>		<b>4.5800e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

El Camino College Fire Academy Operation - South Coast Air Basin, Winter

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

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Annual

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

**El Camino College Fire Academy Phase 1  
South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	10.83	1000sqft	0.25	10,832.00	0
Other Asphalt Surfaces	66.00	1000sqft	1.52	66,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	390.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Client provided dimensions.

Construction Phase - PD and Client provided data responses.

Off-road Equipment -

Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Client-provided information

Construction Off-road Equipment Mitigation - Water exposed area 2x per day SCAQMD Rule 403 (Fugitive Dust)

Grading - provided total area to be graded/disturbed- 110,500 sq-ft (2.54 acres)



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Annual

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

Trips and VMT - Haul trucks calculated from 3,400 CY of demo material (20-ton trucks assumed). 213.5 total trucks, 425 total trips. 4 vendor trips added to earthwork phases (site prep, demo, grading) to account for water trucks. 2 vendor trucks added to remaining phases without default vendor trips.

Architectural Coating - Client committed to low-VOC paints (50 g/L)

Vehicle Trips - Construction-only.

Area Coating - Client committed to low-VOC paints (50 g/L)

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Parking	3960	0
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	8.6520e-003	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00

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

tblFleetMix	LHD2	6.4370e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7060e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.4500e-004	0.00
tblFleetMix	UBUS	5.0800e-004	0.00
tblGrading	AcresOfGrading	4.00	2.54
tblLandUse	LandUseSquareFeet	10,830.00	10,832.00
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblTripsAndVMT	HaulingTripNumber	420.00	425.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	13.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	20.25	0.00

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

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1238	0.7732	0.7528	1.4900e-003	0.0856	0.0361	0.1217	0.0222	0.0343	0.0564	0.0000	128.7164	128.7164	0.0226	2.9100e-003	130.1501
<b>Maximum</b>	<b>0.1238</b>	<b>0.7732</b>	<b>0.7528</b>	<b>1.4900e-003</b>	<b>0.0856</b>	<b>0.0361</b>	<b>0.1217</b>	<b>0.0222</b>	<b>0.0343</b>	<b>0.0564</b>	<b>0.0000</b>	<b>128.7164</b>	<b>128.7164</b>	<b>0.0226</b>	<b>2.9100e-003</b>	<b>130.1501</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1238	0.7732	0.7528	1.4900e-003	0.0498	0.0361	0.0859	0.0130	0.0343	0.0473	0.0000	128.7163	128.7163	0.0226	2.9100e-003	130.1500
<b>Maximum</b>	<b>0.1238</b>	<b>0.7732</b>	<b>0.7528</b>	<b>1.4900e-003</b>	<b>0.0498</b>	<b>0.0361</b>	<b>0.0859</b>	<b>0.0130</b>	<b>0.0343</b>	<b>0.0473</b>	<b>0.0000</b>	<b>128.7163</b>	<b>128.7163</b>	<b>0.0226</b>	<b>2.9100e-003</b>	<b>130.1500</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>41.85</b>	<b>0.00</b>	<b>29.44</b>	<b>41.35</b>	<b>0.00</b>	<b>16.24</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2022	5-31-2022	0.5642	0.5642
2	6-1-2022	8-31-2022	0.3167	0.3167
3	9-1-2022	9-30-2022	0.0004	0.0004
		Highest	0.5642	0.5642

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0460	1.0000e-005	9.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9100e-003	1.9100e-003	0.0000	0.0000	2.0300e-003
Energy	8.9000e-004	8.0900e-003	6.7900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	31.5098	31.5098	2.0900e-003	3.9000e-004	31.6793
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2.8581	0.0000	2.8581	0.1689	0.0000	7.0809
Water						0.0000	0.0000		0.0000	0.0000	0.1685	2.8637	3.0322	0.0176	4.4000e-004	3.6015
<b>Total</b>	<b>0.0469</b>	<b>8.1000e-003</b>	<b>7.7700e-003</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>3.0266</b>	<b>34.3754</b>	<b>37.4020</b>	<b>0.1886</b>	<b>8.3000e-004</b>	<b>42.3637</b>

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

Category	tons/yr										MT/yr					
Area	0.0460	1.0000e-005	9.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9100e-003	1.9100e-003	0.0000	0.0000	2.0300e-003
Energy	8.9000e-004	8.0900e-003	6.7900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	31.5098	31.5098	2.0900e-003	3.9000e-004	31.6793
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2.8581	0.0000	2.8581	0.1689	0.0000	7.0809
Water						0.0000	0.0000		0.0000	0.0000	0.1685	2.8637	3.0322	0.0176	4.4000e-004	3.6015
<b>Total</b>	<b>0.0469</b>	<b>8.1000e-003</b>	<b>7.7700e-003</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>3.0266</b>	<b>34.3754</b>	<b>37.4020</b>	<b>0.1886</b>	<b>8.3000e-004</b>	<b>42.3637</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/23/2022	6	20	
2	Site Preparation	Site Preparation	3/24/2022	3/25/2022	6	2	
3	Grading	Grading	3/26/2022	3/30/2022	6	4	
4	Modular Building Installation	Building Construction	4/25/2022	7/9/2022	6	66	
5	Paving	Paving	7/11/2022	7/21/2022	6	10	
6	Architectural Coating	Architectural Coating	7/25/2022	8/4/2022	6	10	
7	Fencing and Landscaping	Site Preparation	8/5/2022	9/8/2022	6	30	
8	Trenching and Utilities	Trenching	3/31/2022	4/23/2022	6	21	

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

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 2.54**

**Acres of Paving: 1.52**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,248; Non-Residential Outdoor: 5,416; Striped Parking Area: 3,960**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Trenching and Utilities	Plate Compactors	1	8.00	8	0.43
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Modular Building Installation	Cranes	1	6.00	231	0.29
Modular Building Installation	Forklifts	1	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

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

Trenching and Utilities	Trenchers	1	8.00	78	0.50
Trenching and Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fencing and Landscaping	Rough Terrain Forklifts			100	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	4.00	425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Utilities	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	7	32.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing and Landscaping	0	2.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0455	0.0000	0.0455	6.8900e-003	0.0000	6.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1662	0.1396	2.4000e-004		8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2120

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

Total	0.0169	0.1662	0.1396	2.4000e-004	0.0455	8.3800e-003	0.0539	6.8900e-003	7.8300e-003	0.0147	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2120
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0360	8.1800e-003	1.3000e-004	3.6600e-003	2.7000e-004	3.9300e-003	1.0000e-003	2.6000e-004	1.2600e-003	0.0000	12.9482	12.9482	7.7000e-004	2.0600e-003	13.5805
Vendor	7.0000e-005	1.9800e-003	6.4000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7496	0.7496	3.0000e-005	1.1000e-004	0.7828
Worker	4.3000e-004	3.5000e-004	4.6000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1531	1.1531	3.0000e-005	3.0000e-005	1.1632
<b>Total</b>	<b>1.4200e-003</b>	<b>0.0383</b>	<b>0.0134</b>	<b>1.5000e-004</b>	<b>5.3400e-003</b>	<b>3.0000e-004</b>	<b>5.6300e-003</b>	<b>1.4500e-003</b>	<b>2.9000e-004</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>14.8509</b>	<b>14.8509</b>	<b>8.3000e-004</b>	<b>2.2000e-003</b>	<b>15.5265</b>

**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					0.0205	0.0000	0.0205	3.1000e-003	0.0000	3.1000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0169	0.1662	0.1396	2.4000e-004		8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2119



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

Total	0.0169	0.1662	0.1396	2.4000e-004	0.0205	8.3800e-003	0.0288	3.1000e-003	7.8300e-003	0.0109	0.0000	21.0777	21.0777	5.3700e-003	0.0000	21.2119
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.2000e-004	0.0360	8.1800e-003	1.3000e-004	3.6600e-003	2.7000e-004	3.9300e-003	1.0000e-003	2.6000e-004	1.2600e-003	0.0000	12.9482	12.9482	7.7000e-004	2.0600e-003	13.5805
Vendor	7.0000e-005	1.9800e-003	6.4000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7496	0.7496	3.0000e-005	1.1000e-004	0.7828
Worker	4.3000e-004	3.5000e-004	4.6000e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1531	1.1531	3.0000e-005	3.0000e-005	1.1632
<b>Total</b>	<b>1.4200e-003</b>	<b>0.0383</b>	<b>0.0134</b>	<b>1.5000e-004</b>	<b>5.3400e-003</b>	<b>3.0000e-004</b>	<b>5.6300e-003</b>	<b>1.4500e-003</b>	<b>2.9000e-004</b>	<b>1.7400e-003</b>	<b>0.0000</b>	<b>14.8509</b>	<b>14.8509</b>	<b>8.3000e-004</b>	<b>2.2000e-003</b>	<b>15.5265</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.2700e-003	0.0000	6.2700e-003	3.0000e-003	0.0000	3.0000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0146	7.0900e-003	2.0000e-005		6.2000e-004	6.2000e-004		5.7000e-004	5.7000e-004	0.0000	1.5115	1.5115	4.9000e-004	0.0000	1.5238

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

Total	1.3100e-003	0.0146	7.0900e-003	2.0000e-005	6.2700e-003	6.2000e-004	6.8900e-003	3.0000e-003	5.7000e-004	3.5700e-003	0.0000	1.5115	1.5115	4.9000e-004	0.0000	1.5238
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	1.0000e-005	0.0783
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0710	0.0710	0.0000	0.0000	0.0716
<b>Total</b>	<b>4.0000e-005</b>	<b>2.2000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1459</b>	<b>0.1459</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1499</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.8200e-003	0.0000	2.8200e-003	1.3500e-003	0.0000	1.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3100e-003	0.0146	7.0900e-003	2.0000e-005		6.2000e-004	6.2000e-004		5.7000e-004	5.7000e-004	0.0000	1.5115	1.5115	4.9000e-004	0.0000	1.5238

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

Total	1.3100e-003	0.0146	7.0900e-003	2.0000e-005	2.8200e-003	6.2000e-004	3.4400e-003	1.3500e-003	5.7000e-004	1.9200e-003	0.0000	1.5115	1.5115	4.9000e-004	0.0000	1.5238
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0750	0.0750	0.0000	1.0000e-005	0.0783
Worker	3.0000e-005	2.0000e-005	2.8000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0710	0.0710	0.0000	0.0000	0.0716
<b>Total</b>	<b>4.0000e-005</b>	<b>2.2000e-004</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1459</b>	<b>0.1459</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1499</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0134	0.0000	0.0134	6.7700e-003	0.0000	6.7700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0800e-003	0.0340	0.0184	4.0000e-005		1.4800e-003	1.4800e-003		1.3700e-003	1.3700e-003	0.0000	3.6205	3.6205	1.1700e-003	0.0000	3.6498

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

Total	3.0800e-003	0.0340	0.0184	4.0000e-005	0.0134	1.4800e-003	0.0149	6.7700e-003	1.3700e-003	8.1400e-003	0.0000	3.6205	3.6205	1.1700e-003	0.0000	3.6498
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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.0000e-004	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1499	0.1499	1.0000e-005	2.0000e-005	0.1566
Worker	7.0000e-005	5.0000e-005	7.1000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1774	0.1774	0.0000	0.0000	0.1790
<b>Total</b>	<b>8.0000e-005</b>	<b>4.5000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3273</b>	<b>0.3273</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.3355</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					6.0300e-003	0.0000	6.0300e-003	3.0400e-003	0.0000	3.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0800e-003	0.0340	0.0184	4.0000e-005		1.4800e-003	1.4800e-003		1.3700e-003	1.3700e-003	0.0000	3.6205	3.6205	1.1700e-003	0.0000	3.6498

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

<b>Total</b>	<b>3.0800e-003</b>	<b>0.0340</b>	<b>0.0184</b>	<b>4.0000e-005</b>	<b>6.0300e-003</b>	<b>1.4800e-003</b>	<b>7.5100e-003</b>	<b>3.0400e-003</b>	<b>1.3700e-003</b>	<b>4.4100e-003</b>	<b>0.0000</b>	<b>3.6205</b>	<b>3.6205</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>3.6498</b>
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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.0000e-004	1.3000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1499	0.1499	1.0000e-005	2.0000e-005	0.1566
Worker	7.0000e-005	5.0000e-005	7.1000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1774	0.1774	0.0000	0.0000	0.1790
<b>Total</b>	<b>8.0000e-005</b>	<b>4.5000e-004</b>	<b>8.4000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3273</b>	<b>0.3273</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.3355</b>

**3.5 Modular Building Installation - 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	0.0544	0.4126	0.4200	7.3000e-004		0.0194	0.0194		0.0188	0.0188	0.0000	59.9204	59.9204	0.0104	0.0000	60.1813
<b>Total</b>	<b>0.0544</b>	<b>0.4126</b>	<b>0.4200</b>	<b>7.3000e-004</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0188</b>	<b>0.0188</b>	<b>0.0000</b>	<b>59.9204</b>	<b>59.9204</b>	<b>0.0104</b>	<b>0.0000</b>	<b>60.1813</b>

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.2700e-003	1.0600e-003	1.0000e-005	4.2000e-004	3.0000e-005	4.5000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	1.2369	1.2369	5.0000e-005	1.8000e-004	1.2916
Worker	3.5300e-003	2.8600e-003	0.0374	1.0000e-004	0.0116	7.0000e-005	0.0117	3.0800e-003	7.0000e-005	3.1400e-003	0.0000	9.3671	9.3671	2.6000e-004	2.5000e-004	9.4488
<b>Total</b>	<b>3.6500e-003</b>	<b>6.1300e-003</b>	<b>0.0384</b>	<b>1.1000e-004</b>	<b>0.0120</b>	<b>1.0000e-004</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>1.0000e-004</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>10.6039</b>	<b>10.6039</b>	<b>3.1000e-004</b>	<b>4.3000e-004</b>	<b>10.7404</b>

**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	0.0544	0.4126	0.4200	7.3000e-004		0.0194	0.0194		0.0188	0.0188	0.0000	59.9203	59.9203	0.0104	0.0000	60.1812
<b>Total</b>	<b>0.0544</b>	<b>0.4126</b>	<b>0.4200</b>	<b>7.3000e-004</b>		<b>0.0194</b>	<b>0.0194</b>		<b>0.0188</b>	<b>0.0188</b>	<b>0.0000</b>	<b>59.9203</b>	<b>59.9203</b>	<b>0.0104</b>	<b>0.0000</b>	<b>60.1812</b>

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.2700e-003	1.0600e-003	1.0000e-005	4.2000e-004	3.0000e-005	4.5000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	1.2369	1.2369	5.0000e-005	1.8000e-004	1.2916
Worker	3.5300e-003	2.8600e-003	0.0374	1.0000e-004	0.0116	7.0000e-005	0.0117	3.0800e-003	7.0000e-005	3.1400e-003	0.0000	9.3671	9.3671	2.6000e-004	2.5000e-004	9.4488
<b>Total</b>	<b>3.6500e-003</b>	<b>6.1300e-003</b>	<b>0.0384</b>	<b>1.1000e-004</b>	<b>0.0120</b>	<b>1.0000e-004</b>	<b>0.0121</b>	<b>3.2000e-003</b>	<b>1.0000e-004</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>10.6039</b>	<b>10.6039</b>	<b>3.1000e-004</b>	<b>4.3000e-004</b>	<b>10.7404</b>

**3.6 Paving - 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	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9315
Paving	1.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4300e-003</b>	<b>0.0339</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.8848</b>	<b>5.8848</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9315</b>

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.0000e-004	1.6000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1874	0.1874	1.0000e-005	3.0000e-005	0.1957
Worker	2.2000e-004	1.8000e-004	2.3000e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5766	0.5766	2.0000e-005	2.0000e-005	0.5816
<b>Total</b>	<b>2.4000e-004</b>	<b>6.8000e-004</b>	<b>2.4600e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.7640</b>	<b>0.7640</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>0.7773</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.4400e-003	0.0339	0.0440	7.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	5.8848	5.8848	1.8700e-003	0.0000	5.9314
Paving	1.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.4300e-003</b>	<b>0.0339</b>	<b>0.0440</b>	<b>7.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>5.8848</b>	<b>5.8848</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>5.9314</b>

**Mitigated Construction Off-Site**



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.0000e-004	1.6000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1874	0.1874	1.0000e-005	3.0000e-005	0.1957
Worker	2.2000e-004	1.8000e-004	2.3000e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5766	0.5766	2.0000e-005	2.0000e-005	0.5816
<b>Total</b>	<b>2.4000e-004</b>	<b>6.8000e-004</b>	<b>2.4600e-003</b>	<b>1.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>7.9000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.7640</b>	<b>0.7640</b>	<b>3.0000e-005</b>	<b>5.0000e-005</b>	<b>0.7773</b>

**3.7 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	0.0297					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.0307</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.0000e-004	1.6000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1874	0.1874	1.0000e-005	3.0000e-005	0.1957
Worker	1.0000e-004	8.0000e-005	1.0600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2661	0.2661	1.0000e-005	1.0000e-005	0.2684
<b>Total</b>	<b>1.2000e-004</b>	<b>5.8000e-004</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4535</b>	<b>0.4535</b>	<b>2.0000e-005</b>	<b>4.0000e-005</b>	<b>0.4641</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0297					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
<b>Total</b>	<b>0.0307</b>	<b>7.0400e-003</b>	<b>9.0700e-003</b>	<b>1.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2787</b>

**Mitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	5.0000e-004	1.6000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1874	0.1874	1.0000e-005	3.0000e-005	0.1957
Worker	1.0000e-004	8.0000e-005	1.0600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2661	0.2661	1.0000e-005	1.0000e-005	0.2684
<b>Total</b>	<b>1.2000e-004</b>	<b>5.8000e-004</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>4.0000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4535</b>	<b>0.4535</b>	<b>2.0000e-005</b>	<b>4.0000e-005</b>	<b>0.4641</b>

**3.8 Fencing and Landscaping - 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.5622	0.5622	2.0000e-005	8.0000e-005	0.5871
Worker	1.0000e-004	8.0000e-005	1.0600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2661	0.2661	1.0000e-005	1.0000e-005	0.2684
<b>Total</b>	<b>1.5000e-004</b>	<b>1.5700e-003</b>	<b>1.5400e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.8283</b>	<b>0.8283</b>	<b>3.0000e-005</b>	<b>9.0000e-005</b>	<b>0.8555</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.4900e-003	4.8000e-004	1.0000e-005	1.9000e-004	1.0000e-005	2.0000e-004	5.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.5622	0.5622	2.0000e-005	8.0000e-005	0.5871
Worker	1.0000e-004	8.0000e-005	1.0600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2661	0.2661	1.0000e-005	1.0000e-005	0.2684
<b>Total</b>	<b>1.5000e-004</b>	<b>1.5700e-003</b>	<b>1.5400e-003</b>	<b>1.0000e-005</b>	<b>5.2000e-004</b>	<b>1.0000e-005</b>	<b>5.3000e-004</b>	<b>1.4000e-004</b>	<b>1.0000e-005</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.8283</b>	<b>0.8283</b>	<b>3.0000e-005</b>	<b>9.0000e-005</b>	<b>0.8555</b>

**3.9 Trenching and Utilities - 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	5.9700e-003	0.0557	0.0530	7.0000e-005		3.5600e-003	3.5600e-003		3.2900e-003	3.2900e-003	0.0000	6.3122	6.3122	1.9700e-003	0.0000	6.3614
<b>Total</b>	<b>5.9700e-003</b>	<b>0.0557</b>	<b>0.0530</b>	<b>7.0000e-005</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2900e-003</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>6.3122</b>	<b>6.3122</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>6.3614</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.0400e-003	3.4000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3936	0.3936	1.0000e-005	6.0000e-005	0.4110
Worker	2.8000e-004	2.3000e-004	2.9700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7451	0.7451	2.0000e-005	2.0000e-005	0.7516
<b>Total</b>	<b>3.2000e-004</b>	<b>1.2700e-003</b>	<b>3.3100e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>2.8000e-004</b>	<b>2.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.1387</b>	<b>1.1387</b>	<b>3.0000e-005</b>	<b>8.0000e-005</b>	<b>1.1626</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9700e-003	0.0557	0.0530	7.0000e-005		3.5600e-003	3.5600e-003		3.2900e-003	3.2900e-003	0.0000	6.3122	6.3122	1.9700e-003	0.0000	6.3614
<b>Total</b>	<b>5.9700e-003</b>	<b>0.0557</b>	<b>0.0530</b>	<b>7.0000e-005</b>		<b>3.5600e-003</b>	<b>3.5600e-003</b>		<b>3.2900e-003</b>	<b>3.2900e-003</b>	<b>0.0000</b>	<b>6.3122</b>	<b>6.3122</b>	<b>1.9700e-003</b>	<b>0.0000</b>	<b>6.3614</b>

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

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
Vendor	4.0000e-005	1.0400e-003	3.4000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3936	0.3936	1.0000e-005	6.0000e-005	0.4110
Worker	2.8000e-004	2.3000e-004	2.9700e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7451	0.7451	2.0000e-005	2.0000e-005	0.7516
<b>Total</b>	<b>3.2000e-004</b>	<b>1.2700e-003</b>	<b>3.3100e-003</b>	<b>1.0000e-005</b>	<b>1.0500e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>2.8000e-004</b>	<b>2.0000e-005</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.1387</b>	<b>1.1387</b>	<b>3.0000e-005</b>	<b>8.0000e-005</b>	<b>1.1626</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

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

Junior College (2yr)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.003706
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.7063	22.7063	1.9200e-003	2.3000e-004	22.8234
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.7063	22.7063	1.9200e-003	2.3000e-004	22.8234
Natural Gas Mitigated	8.9000e-004	8.0900e-003	6.7900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.8035	8.8035	1.7000e-004	1.6000e-004	8.8558



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

NaturalGas Unmitigated	8.9000e-004	8.0900e-003	6.7900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.8035	8.8035	1.7000e-004	1.6000e-004	8.8558
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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	164971	8.9000e-004	8.0900e-003	6.7900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.8035	8.8035	1.7000e-004	1.6000e-004	8.8558
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.9000e-004</b>	<b>8.0900e-003</b>	<b>6.7900e-003</b>	<b>5.0000e-005</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>8.8035</b>	<b>8.8035</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.8558</b>

**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					
Junior College (2yr)	164971	8.9000e-004	8.0900e-003	6.7900e-003	5.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	8.8035	8.8035	1.7000e-004	1.6000e-004	8.8558
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.9000e-004</b>	<b>8.0900e-003</b>	<b>6.7900e-003</b>	<b>5.0000e-005</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>		<b>6.1000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>8.8035</b>	<b>8.8035</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.8558</b>

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	128034	22.7063	1.9200e-003	2.3000e-004	22.8234
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>22.7063</b>	<b>1.9200e-003</b>	<b>2.3000e-004</b>	<b>22.8234</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	128034	22.7063	1.9200e-003	2.3000e-004	22.8234
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>22.7063</b>	<b>1.9200e-003</b>	<b>2.3000e-004</b>	<b>22.8234</b>

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

6.0 Area Detail

6.1 Mitigation Measures Area

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0460	1.0000e-005	9.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9100e-003	1.9100e-003	0.0000	0.0000	2.0300e-003
Unmitigated	0.0460	1.0000e-005	9.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9100e-003	1.9100e-003	0.0000	0.0000	2.0300e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	2.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0434					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9100e-003	1.9100e-003	0.0000	0.0000	2.0300e-003
<b>Total</b>	<b>0.0460</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0300e-003</b>

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Annual

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

**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	2.5100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0434					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.9100e-003	1.9100e-003	0.0000	0.0000	2.0300e-003
<b>Total</b>	<b>0.0460</b>	<b>1.0000e-005</b>	<b>9.8000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9100e-003</b>	<b>1.9100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0300e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.0322	0.0176	4.4000e-004	3.6015

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Annual

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

Unmitigated	3.0322	0.0176	4.4000e-004	3.6015
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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	0.531201 / 0.830853	3.0322	0.0176	4.4000e-004	3.6015
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.0322</b>	<b>0.0176</b>	<b>4.4000e-004</b>	<b>3.6015</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	0.531201 / 0.830853	3.0322	0.0176	4.4000e-004	3.6015
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.0322</b>	<b>0.0176</b>	<b>4.4000e-004</b>	<b>3.6015</b>

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.8581	0.1689	0.0000	7.0809
Unmitigated	2.8581	0.1689	0.0000	7.0809

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	14.08	2.8581	0.1689	0.0000	7.0809
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.8581</b>	<b>0.1689</b>	<b>0.0000</b>	<b>7.0809</b>

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

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	14.08	2.8581	0.1689	0.0000	7.0809
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.8581</b>	<b>0.1689</b>	<b>0.0000</b>	<b>7.0809</b>

**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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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Annual

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

**11.0 Vegetation**

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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

**El Camino College Fire Academy Phase 1  
South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	10.83	1000sqft	0.25	10,832.00	0
Other Asphalt Surfaces	66.00	1000sqft	1.52	66,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Client provided dimensions.

Construction Phase - PD and Client provided data responses.

Off-road Equipment -

Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Client-provided information

Construction Off-road Equipment Mitigation - Water exposed area 2x per day SCAQMD Rule 403 (Fugitive Dust)

Grading - provided total area to be graded/disturbed- 110,500 sq-ft (2.54 acres)

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Trips and VMT - Haul trucks calculated from 3,400 CY of demo material (20-ton trucks assumed). 213.5 total trucks, 425 total trips. 4 vendor trips added to earthwork phases (site prep, demo, grading) to account for water trucks. 2 vendor trucks added to remaining phases without default vendor trips.

Architectural Coating - Client committed to low-VOC paints (50 g/L)

Vehicle Trips - Construction-only.

Area Coating - Client committed to low-VOC paints (50 g/L)

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Parking	3960	0
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	8.6520e-003	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.4370e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7060e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.4500e-004	0.00
tblFleetMix	UBUS	5.0800e-004	0.00
tblGrading	AcresOfGrading	4.00	2.54
tblLandUse	LandUseSquareFeet	10,830.00	10,832.00
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblTripsAndVMT	HaulingTripNumber	420.00	425.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	13.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	20.25	0.00

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.1670	20.2577	15.3282	0.0392	6.8329	0.8679	7.5778	3.4200	0.8116	4.1053	0.0000	3,965.9088	3,965.9088	0.6831	0.2420	4,055.0896
Maximum	6.1670	20.2577	15.3282	0.0392	6.8329	0.8679	7.5778	3.4200	0.8116	4.1053	0.0000	3,965.9088	3,965.9088	0.6831	0.2420	4,055.0896

**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	6.1670	20.2577	15.3282	0.0392	3.1504	0.8679	3.8952	1.5593	0.8116	2.2447	0.0000	3,965.9088	3,965.9088	0.6831	0.2420	4,055.0896
Maximum	6.1670	20.2577	15.3282	0.0392	3.1504	0.8679	3.8952	1.5593	0.8116	2.2447	0.0000	3,965.9088	3,965.9088	0.6831	0.2420	4,055.0896

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Percent Reduction	0.00	0.00	0.00	0.00	53.89	0.00	48.60	54.40	0.00	45.32	0.00	0.00	0.00	0.00	0.00	0.00
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
Energy	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.2572</b>	<b>0.0444</b>	<b>0.0451</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>		<b>53.1905</b>	<b>53.1905</b>	<b>1.0600e-003</b>	<b>9.7000e-004</b>	<b>53.5076</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
Energy	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Total	0.2572	0.0444	0.0451	2.7000e-004	0.0000	3.4000e-003	3.4000e-003	0.0000	3.4000e-003	3.4000e-003		53.1905	53.1905	1.0600e-003	9.7000e-004	53.5076
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/23/2022	6	20	
2	Site Preparation	Site Preparation	3/24/2022	3/25/2022	6	2	
3	Grading	Grading	3/26/2022	3/30/2022	6	4	
4	Modular Building Installation	Building Construction	4/25/2022	7/9/2022	6	66	
5	Paving	Paving	7/11/2022	7/21/2022	6	10	
6	Architectural Coating	Architectural Coating	7/25/2022	8/4/2022	6	10	
7	Fencing and Landscaping	Site Preparation	8/5/2022	9/8/2022	6	30	
8	Trenching and Utilities	Trenching	3/31/2022	4/23/2022	6	21	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 2.54**

**Acres of Paving: 1.52**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,248; Non-Residential Outdoor: 5,416; Striped Parking Area: 3,960**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Trenching and Utilities	Plate Compactors	1	8.00	8	0.43
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Modular Building Installation	Cranes	1	6.00	231	0.29
Modular Building Installation	Forklifts	1	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching and Utilities	Trenchers	1	8.00	78	0.50
Trenching and Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fencing and Landscaping	Rough Terrain Forklifts			100	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	4.00	425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Utilities	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	7	32.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing and Landscaping	0	2.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5473	0.0000	4.5473	0.6885	0.0000	0.6885			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>1.6889</b>	<b>16.6217</b>	<b>13.9605</b>	<b>0.0241</b>	<b>4.5473</b>	<b>0.8379</b>	<b>5.3852</b>	<b>0.6885</b>	<b>0.7829</b>	<b>1.4714</b>		<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

**Unmitigated Construction Off-Site**



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0929	3.4160	0.8120	0.0130	0.3716	0.0272	0.3988	0.1018	0.0261	0.1279		1,427.1245	1,427.1245	0.0845	0.2268	1,496.8202
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0444	0.0313	0.4925	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		132.7488	132.7488	3.4700e-003	3.1700e-003	133.7801
<b>Total</b>	<b>0.1446</b>	<b>3.6360</b>	<b>1.3677</b>	<b>0.0150</b>	<b>0.5425</b>	<b>0.0300</b>	<b>0.5725</b>	<b>0.1477</b>	<b>0.0287</b>	<b>0.1764</b>		<b>1,642.4919</b>	<b>1,642.4919</b>	<b>0.0910</b>	<b>0.2420</b>	<b>1,716.8705</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0463	0.0000	2.0463	0.3098	0.0000	0.3098			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>1.6889</b>	<b>16.6217</b>	<b>13.9605</b>	<b>0.0241</b>	<b>2.0463</b>	<b>0.8379</b>	<b>2.8842</b>	<b>0.3098</b>	<b>0.7829</b>	<b>1.0927</b>	<b>0.0000</b>	<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0929	3.4160	0.8120	0.0130	0.3716	0.0272	0.3988	0.1018	0.0261	0.1279		1,427.1245	1,427.1245	0.0845	0.2268	1,496.8202
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0444	0.0313	0.4925	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		132.7488	132.7488	3.4700e-003	3.1700e-003	133.7801
<b>Total</b>	<b>0.1446</b>	<b>3.6360</b>	<b>1.3677</b>	<b>0.0150</b>	<b>0.5425</b>	<b>0.0300</b>	<b>0.5725</b>	<b>0.1477</b>	<b>0.0287</b>	<b>0.1764</b>		<b>1,642.4919</b>	<b>1,642.4919</b>	<b>0.0910</b>	<b>0.2420</b>	<b>1,716.8705</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
<b>Total</b>	<b>1.3122</b>	<b>14.6277</b>	<b>7.0939</b>	<b>0.0172</b>	<b>6.2662</b>	<b>0.6225</b>	<b>6.8887</b>	<b>3.0041</b>	<b>0.5727</b>	<b>3.5768</b>		<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>		<b>1,679.6457</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0346</b>	<b>0.2080</b>	<b>0.3662</b>	<b>1.5800e-003</b>	<b>0.1150</b>	<b>2.4600e-003</b>	<b>0.1175</b>	<b>0.0311</b>	<b>2.3300e-003</b>	<b>0.0334</b>		<b>164.3103</b>	<b>164.3103</b>	<b>5.1800e-003</b>	<b>0.0140</b>	<b>168.5964</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8198	0.0000	2.8198	1.3518	0.0000	1.3518			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
<b>Total</b>	<b>1.3122</b>	<b>14.6277</b>	<b>7.0939</b>	<b>0.0172</b>	<b>2.8198</b>	<b>0.6225</b>	<b>3.4423</b>	<b>1.3518</b>	<b>0.5727</b>	<b>1.9246</b>	<b>0.0000</b>	<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>		<b>1,679.6457</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0346</b>	<b>0.2080</b>	<b>0.3662</b>	<b>1.5800e-003</b>	<b>0.1150</b>	<b>2.4600e-003</b>	<b>0.1175</b>	<b>0.0311</b>	<b>2.3300e-003</b>	<b>0.0334</b>		<b>164.3103</b>	<b>164.3103</b>	<b>5.1800e-003</b>	<b>0.0140</b>	<b>168.5964</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6955	0.0000	6.6955	3.3829	0.0000	3.3829			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>6.6955</b>	<b>0.7423</b>	<b>7.4378</b>	<b>3.3829</b>	<b>0.6829</b>	<b>4.0658</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0341	0.0241	0.3789	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.1145	102.1145	2.6700e-003	2.4400e-003	102.9078
<b>Total</b>	<b>0.0414</b>	<b>0.2128</b>	<b>0.4420</b>	<b>1.7800e-003</b>	<b>0.1374</b>	<b>2.5900e-003</b>	<b>0.1400</b>	<b>0.0370</b>	<b>2.4600e-003</b>	<b>0.0395</b>		<b>184.7332</b>	<b>184.7332</b>	<b>5.7100e-003</b>	<b>0.0144</b>	<b>189.1780</b>

**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					3.0130	0.0000	3.0130	1.5223	0.0000	1.5223			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>3.0130</b>	<b>0.7423</b>	<b>3.7553</b>	<b>1.5223</b>	<b>0.6829</b>	<b>2.2052</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-003	0.1887	0.0631	7.7000e-004	0.0256	1.9200e-003	0.0275	7.3700e-003	1.8400e-003	9.2100e-003		82.6187	82.6187	3.0400e-003	0.0120	86.2702
Worker	0.0341	0.0241	0.3789	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.1145	102.1145	2.6700e-003	2.4400e-003	102.9078
<b>Total</b>	<b>0.0414</b>	<b>0.2128</b>	<b>0.4420</b>	<b>1.7800e-003</b>	<b>0.1374</b>	<b>2.5900e-003</b>	<b>0.1400</b>	<b>0.0370</b>	<b>2.4600e-003</b>	<b>0.0395</b>		<b>184.7332</b>	<b>184.7332</b>	<b>5.7100e-003</b>	<b>0.0144</b>	<b>189.1780</b>

**3.5 Modular Building Installation - 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

**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
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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.1092	0.0771	1.2124	3.2300e-003	0.3577	2.1400e-003	0.3598	0.0949	1.9700e-003	0.0968		326.7663	326.7663	8.5500e-003	7.8000e-003	329.3048
<b>Total</b>	<b>0.1128</b>	<b>0.1715</b>	<b>1.2439</b>	<b>3.6100e-003</b>	<b>0.3705</b>	<b>3.1000e-003</b>	<b>0.3736</b>	<b>0.0986</b>	<b>2.8900e-003</b>	<b>0.1014</b>		<b>368.0756</b>	<b>368.0756</b>	<b>0.0101</b>	<b>0.0138</b>	<b>372.4399</b>

**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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.1092	0.0771	1.2124	3.2300e-003	0.3577	2.1400e-003	0.3598	0.0949	1.9700e-003	0.0968		326.7663	326.7663	8.5500e-003	7.8000e-003	329.3048
<b>Total</b>	<b>0.1128</b>	<b>0.1715</b>	<b>1.2439</b>	<b>3.6100e-003</b>	<b>0.3705</b>	<b>3.1000e-003</b>	<b>0.3736</b>	<b>0.0986</b>	<b>2.8900e-003</b>	<b>0.1014</b>		<b>368.0756</b>	<b>368.0756</b>	<b>0.0101</b>	<b>0.0138</b>	<b>372.4399</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0859</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

**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					



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0444	0.0313	0.4925	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		132.7488	132.7488	3.4700e-003	3.1700e-003	133.7801
<b>Total</b>	<b>0.0480</b>	<b>0.1257</b>	<b>0.5241</b>	<b>1.6900e-003</b>	<b>0.1581</b>	<b>1.8300e-003</b>	<b>0.1600</b>	<b>0.0422</b>	<b>1.7200e-003</b>	<b>0.0440</b>		<b>174.0582</b>	<b>174.0582</b>	<b>4.9900e-003</b>	<b>9.1700e-003</b>	<b>176.9152</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0859</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>	<b>0.0000</b>	<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0444	0.0313	0.4925	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		132.7488	132.7488	3.4700e-003	3.1700e-003	133.7801
<b>Total</b>	<b>0.0480</b>	<b>0.1257</b>	<b>0.5241</b>	<b>1.6900e-003</b>	<b>0.1581</b>	<b>1.8300e-003</b>	<b>0.1600</b>	<b>0.0422</b>	<b>1.7200e-003</b>	<b>0.0440</b>		<b>174.0582</b>	<b>174.0582</b>	<b>4.9900e-003</b>	<b>9.1700e-003</b>	<b>176.9152</b>

**3.7 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	5.9384					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
<b>Total</b>	<b>6.1429</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0205	0.0145	0.2273	6.1000e-004	0.0671	4.0000e-004	0.0675	0.0178	3.7000e-004	0.0182		61.2687	61.2687	1.6000e-003	1.4600e-003	61.7447
<b>Total</b>	<b>0.0241</b>	<b>0.1088</b>	<b>0.2589</b>	<b>9.9000e-004</b>	<b>0.0799</b>	<b>1.3600e-003</b>	<b>0.0812</b>	<b>0.0215</b>	<b>1.2900e-003</b>	<b>0.0228</b>		<b>102.5780</b>	<b>102.5780</b>	<b>3.1200e-003</b>	<b>7.4600e-003</b>	<b>104.8798</b>

**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	5.9384					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
<b>Total</b>	<b>6.1429</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0205	0.0145	0.2273	6.1000e-004	0.0671	4.0000e-004	0.0675	0.0178	3.7000e-004	0.0182		61.2687	61.2687	1.6000e-003	1.4600e-003	61.7447
<b>Total</b>	<b>0.0241</b>	<b>0.1088</b>	<b>0.2589</b>	<b>9.9000e-004</b>	<b>0.0799</b>	<b>1.3600e-003</b>	<b>0.0812</b>	<b>0.0215</b>	<b>1.2900e-003</b>	<b>0.0228</b>		<b>102.5780</b>	<b>102.5780</b>	<b>3.1200e-003</b>	<b>7.4600e-003</b>	<b>104.8798</b>

**3.8 Fencing and Landscaping - 2022**

**Unmitigated Construction On-Site**

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

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	6.8200e-003	4.8200e-003	0.0758	2.0000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.4229	20.4229	5.3000e-004	4.9000e-004	20.5816
<b>Total</b>	<b>0.0105</b>	<b>0.0992</b>	<b>0.1073</b>	<b>5.8000e-004</b>	<b>0.0352</b>	<b>1.0900e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>61.7322</b>	<b>61.7322</b>	<b>2.0500e-003</b>	<b>6.4900e-003</b>	<b>63.7167</b>

**Mitigated Construction On-Site**

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

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	6.8200e-003	4.8200e-003	0.0758	2.0000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		20.4229	20.4229	5.3000e-004	4.9000e-004	20.5816
<b>Total</b>	<b>0.0105</b>	<b>0.0992</b>	<b>0.1073</b>	<b>5.8000e-004</b>	<b>0.0352</b>	<b>1.0900e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>61.7322</b>	<b>61.7322</b>	<b>2.0500e-003</b>	<b>6.4900e-003</b>	<b>63.7167</b>

**3.9 Trenching and Utilities - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130		662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>		<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Vendor	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351
Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0309</b>	<b>0.1136</b>	<b>0.3347</b>	<b>1.1900e-003</b>	<b>0.1022</b>	<b>1.5000e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>123.0009</b>	<b>123.0009</b>	<b>3.6600e-003</b>	<b>7.9500e-003</b>	<b>125.4613</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130	0.0000	662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>	<b>0.0000</b>	<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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	3.6500e-003	0.0944	0.0316	3.8000e-004	0.0128	9.6000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3094	41.3094	1.5200e-003	6.0000e-003	43.1351

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Worker	0.0273	0.0193	0.3031	8.1000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		81.6916	81.6916	2.1400e-003	1.9500e-003	82.3262
<b>Total</b>	<b>0.0309</b>	<b>0.1136</b>	<b>0.3347</b>	<b>1.1900e-003</b>	<b>0.1022</b>	<b>1.5000e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>123.0009</b>	<b>123.0009</b>	<b>3.6600e-003</b>	<b>7.9500e-003</b>	<b>125.4613</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Junior College (2yr)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**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



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.00370
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day											lb/day					
NaturalGas Mitigated	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
NaturalGas Unmitigated	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	451.976	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8700e-003</b>	<b>0.0443</b>	<b>0.0372</b>	<b>2.7000e-004</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>53.1737</b>	<b>53.1737</b>	<b>1.0200e-003</b>	<b>9.7000e-004</b>	<b>53.4897</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	0.451976	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8700e-003</b>	<b>0.0443</b>	<b>0.0372</b>	<b>2.7000e-004</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>53.1737</b>	<b>53.1737</b>	<b>1.0200e-003</b>	<b>9.7000e-004</b>	<b>53.4897</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
Unmitigated	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2379					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
<b>Total</b>	<b>0.2523</b>	<b>7.0000e-005</b>	<b>7.8300e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0168</b>	<b>0.0168</b>	<b>4.0000e-005</b>		<b>0.0179</b>

**Mitigated**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2379					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
<b>Total</b>	<b>0.2523</b>	<b>7.0000e-005</b>	<b>7.8300e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0168</b>	<b>0.0168</b>	<b>4.0000e-005</b>		<b>0.0179</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

**El Camino College Fire Academy Phase 1  
South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	10.83	1000sqft	0.25	10,832.00	0
Other Asphalt Surfaces	66.00	1000sqft	1.52	66,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8	<b>Operational Year</b>	2024		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Client provided dimensions.
- Construction Phase - PD and Client provided data responses.
- Off-road Equipment -
- Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Client-provided information
- Construction Off-road Equipment Mitigation - Water exposed area 2x per day SCAQMD Rule 403 (Fugitive Dust)
- Grading - provided total area to be graded/disturbed- 110,500 sq-ft (2.54 acres)

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Trips and VMT - Haul trucks calculated from 3,400 CY of demo material (20-ton trucks assumed). 213.5 total trucks, 425 total trips. 4 vendor trips added to earthwork phases (site prep, demo, grading) to account for water trucks. 2 vendor trucks added to remaining phases without default vendor trips.

Architectural Coating - Client committed to low-VOC paints (50 g/L)

Vehicle Trips - Construction-only.

Area Coating - Client committed to low-VOC paints (50 g/L)

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_Parking	3960	0
tblConstructionPhase	NumDays	200.00	66.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFleetMix	HHD	8.6520e-003	0.00
tblFleetMix	LDA	0.54	0.00
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.00

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	6.4370e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.7060e-003	0.00
tblFleetMix	MHD	0.01	0.00
tblFleetMix	OBUS	8.1200e-004	0.00
tblFleetMix	SBUS	7.4500e-004	0.00
tblFleetMix	UBUS	5.0800e-004	0.00
tblGrading	AcresOfGrading	4.00	2.54
tblLandUse	LandUseSquareFeet	10,830.00	10,832.00
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblTripsAndVMT	HaulingTripNumber	420.00	425.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	13.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	20.25	0.00



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	6.1682	20.4103	15.3007	0.0391	6.8329	0.8680	7.5778	3.4200	0.8116	4.1053	0.0000	3,958.9245	3,958.9245	0.6830	0.2422	4,048.1874
Maximum	6.1682	20.4103	15.3007	0.0391	6.8329	0.8680	7.5778	3.4200	0.8116	4.1053	0.0000	3,958.9245	3,958.9245	0.6830	0.2422	4,048.1874

**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	6.1682	20.4103	15.3007	0.0391	3.1504	0.8680	3.8953	1.5593	0.8116	2.2447	0.0000	3,958.9245	3,958.9245	0.6830	0.2422	4,048.1874
Maximum	6.1682	20.4103	15.3007	0.0391	3.1504	0.8680	3.8953	1.5593	0.8116	2.2447	0.0000	3,958.9245	3,958.9245	0.6830	0.2422	4,048.1874

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Percent Reduction	0.00	0.00	0.00	0.00	53.89	0.00	48.60	54.40	0.00	45.32	0.00	0.00	0.00	0.00	0.00	0.00
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
Energy	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.2572</b>	<b>0.0444</b>	<b>0.0451</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>3.4000e-003</b>	<b>3.4000e-003</b>		<b>53.1905</b>	<b>53.1905</b>	<b>1.0600e-003</b>	<b>9.7000e-004</b>	<b>53.5076</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
Energy	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Total	0.2572	0.0444	0.0451	2.7000e-004	0.0000	3.4000e-003	3.4000e-003	0.0000	3.4000e-003	3.4000e-003		53.1905	53.1905	1.0600e-003	9.7000e-004	53.5076
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2022	3/23/2022	6	20	
2	Site Preparation	Site Preparation	3/24/2022	3/25/2022	6	2	
3	Grading	Grading	3/26/2022	3/30/2022	6	4	
4	Modular Building Installation	Building Construction	4/25/2022	7/9/2022	6	66	
5	Paving	Paving	7/11/2022	7/21/2022	6	10	
6	Architectural Coating	Architectural Coating	7/25/2022	8/4/2022	6	10	
7	Fencing and Landscaping	Site Preparation	8/5/2022	9/8/2022	6	30	
8	Trenching and Utilities	Trenching	3/31/2022	4/23/2022	6	21	

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 2.54**

**Acres of Paving: 1.52**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,248; Non-Residential Outdoor: 5,416; Striped Parking Area: 3,960**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Trenching and Utilities	Plate Compactors	1	8.00	8	0.43
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Modular Building Installation	Cranes	1	6.00	231	0.29
Modular Building Installation	Forklifts	1	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Trenching and Utilities	Trenchers	1	8.00	78	0.50
Trenching and Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Fencing and Landscaping	Rough Terrain Forklifts			100	0.40

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	4.00	425.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Trenching and Utilities	3	8.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	7	32.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fencing and Landscaping	0	2.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5473	0.0000	4.5473	0.6885	0.0000	0.6885			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>1.6889</b>	<b>16.6217</b>	<b>13.9605</b>	<b>0.0241</b>	<b>4.5473</b>	<b>0.8379</b>	<b>5.3852</b>	<b>0.6885</b>	<b>0.7829</b>	<b>1.4714</b>		<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0906	3.5577	0.8264	0.0130	0.3716	0.0273	0.3988	0.1018	0.0261	0.1279		1,427.5243	1,427.5243	0.0843	0.2269	1,497.2376
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0471	0.0344	0.4485	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		125.3346	125.3346	3.5200e-003	3.3700e-003	126.4268
<b>Total</b>	<b>0.1449</b>	<b>3.7886</b>	<b>1.3403</b>	<b>0.0150</b>	<b>0.5425</b>	<b>0.0301</b>	<b>0.5726</b>	<b>0.1477</b>	<b>0.0288</b>	<b>0.1765</b>		<b>1,635.5076</b>	<b>1,635.5076</b>	<b>0.0909</b>	<b>0.2422</b>	<b>1,709.9683</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0463	0.0000	2.0463	0.3098	0.0000	0.3098			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2,323.4168	2,323.4168	0.5921		2,338.2191
<b>Total</b>	<b>1.6889</b>	<b>16.6217</b>	<b>13.9605</b>	<b>0.0241</b>	<b>2.0463</b>	<b>0.8379</b>	<b>2.8842</b>	<b>0.3098</b>	<b>0.7829</b>	<b>1.0927</b>	<b>0.0000</b>	<b>2,323.4168</b>	<b>2,323.4168</b>	<b>0.5921</b>		<b>2,338.2191</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0906	3.5577	0.8264	0.0130	0.3716	0.0273	0.3988	0.1018	0.0261	0.1279		1,427.5243	1,427.5243	0.0843	0.2269	1,497.2376
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0471	0.0344	0.4485	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		125.3346	125.3346	3.5200e-003	3.3700e-003	126.4268
<b>Total</b>	<b>0.1449</b>	<b>3.7886</b>	<b>1.3403</b>	<b>0.0150</b>	<b>0.5425</b>	<b>0.0301</b>	<b>0.5726</b>	<b>0.1477</b>	<b>0.0288</b>	<b>0.1765</b>		<b>1,635.5076</b>	<b>1,635.5076</b>	<b>0.0909</b>	<b>0.2422</b>	<b>1,709.9683</b>

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2662	0.0000	6.2662	3.0041	0.0000	3.0041			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666.1738	1,666.1738	0.5389		1,679.6457
<b>Total</b>	<b>1.3122</b>	<b>14.6277</b>	<b>7.0939</b>	<b>0.0172</b>	<b>6.2662</b>	<b>0.6225</b>	<b>6.8887</b>	<b>3.0041</b>	<b>0.5727</b>	<b>3.5768</b>		<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>		<b>1,679.6457</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0362</b>	<b>0.2177</b>	<b>0.3414</b>	<b>1.5300e-003</b>	<b>0.1150</b>	<b>2.4700e-003</b>	<b>0.1175</b>	<b>0.0311</b>	<b>2.3400e-003</b>	<b>0.0334</b>		<b>159.7777</b>	<b>159.7777</b>	<b>5.2000e-003</b>	<b>0.0141</b>	<b>164.1050</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8198	0.0000	2.8198	1.3518	0.0000	1.3518			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
<b>Total</b>	<b>1.3122</b>	<b>14.6277</b>	<b>7.0939</b>	<b>0.0172</b>	<b>2.8198</b>	<b>0.6225</b>	<b>3.4423</b>	<b>1.3518</b>	<b>0.5727</b>	<b>1.9246</b>	<b>0.0000</b>	<b>1,666.1738</b>	<b>1,666.1738</b>	<b>0.5389</b>		<b>1,679.6457</b>

**Mitigated Construction Off-Site**



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0362</b>	<b>0.2177</b>	<b>0.3414</b>	<b>1.5300e-003</b>	<b>0.1150</b>	<b>2.4700e-003</b>	<b>0.1175</b>	<b>0.0311</b>	<b>2.3400e-003</b>	<b>0.0334</b>		<b>159.7777</b>	<b>159.7777</b>	<b>5.2000e-003</b>	<b>0.0141</b>	<b>164.1050</b>

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6955	0.0000	6.6955	3.3829	0.0000	3.3829			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>6.6955</b>	<b>0.7423</b>	<b>7.4378</b>	<b>3.3829</b>	<b>0.6829</b>	<b>4.0658</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0362	0.0264	0.3450	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		96.4113	96.4113	2.7100e-003	2.5900e-003	97.2514
<b>Total</b>	<b>0.0434</b>	<b>0.2230</b>	<b>0.4104</b>	<b>1.7200e-003</b>	<b>0.1374</b>	<b>2.6000e-003</b>	<b>0.1400</b>	<b>0.0370</b>	<b>2.4700e-003</b>	<b>0.0395</b>		<b>179.0599</b>	<b>179.0599</b>	<b>5.7400e-003</b>	<b>0.0146</b>	<b>183.5553</b>

**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					3.0130	0.0000	3.0130	1.5223	0.0000	1.5223			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>3.0130</b>	<b>0.7423</b>	<b>3.7553</b>	<b>1.5223</b>	<b>0.6829</b>	<b>2.2052</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2000e-003	0.1966	0.0654	7.7000e-004	0.0256	1.9300e-003	0.0275	7.3700e-003	1.8500e-003	9.2200e-003		82.6487	82.6487	3.0300e-003	0.0120	86.3039
Worker	0.0362	0.0264	0.3450	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		96.4113	96.4113	2.7100e-003	2.5900e-003	97.2514
<b>Total</b>	<b>0.0434</b>	<b>0.2230</b>	<b>0.4104</b>	<b>1.7200e-003</b>	<b>0.1374</b>	<b>2.6000e-003</b>	<b>0.1400</b>	<b>0.0370</b>	<b>2.4700e-003</b>	<b>0.0395</b>		<b>179.0599</b>	<b>179.0599</b>	<b>5.7400e-003</b>	<b>0.0146</b>	<b>183.5553</b>

**3.5 Modular Building Installation - 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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>		<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

**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
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El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.1159	0.0846	1.1039	3.0500e-003	0.3577	2.1400e-003	0.3598	0.0949	1.9700e-003	0.0968		308.5161	308.5161	8.6600e-003	8.2900e-003	311.2044
<b>Total</b>	<b>0.1195</b>	<b>0.1829</b>	<b>1.1366</b>	<b>3.4300e-003</b>	<b>0.3705</b>	<b>3.1100e-003</b>	<b>0.3736</b>	<b>0.0986</b>	<b>2.8900e-003</b>	<b>0.1014</b>		<b>349.8404</b>	<b>349.8404</b>	<b>0.0102</b>	<b>0.0143</b>	<b>354.3564</b>

**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	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001.5429	2,001.5429	0.3486		2,010.2581
<b>Total</b>	<b>1.6487</b>	<b>12.5031</b>	<b>12.7264</b>	<b>0.0221</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5689</b>	<b>0.5689</b>	<b>0.0000</b>	<b>2,001.5429</b>	<b>2,001.5429</b>	<b>0.3486</b>		<b>2,010.2581</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.1159	0.0846	1.1039	3.0500e-003	0.3577	2.1400e-003	0.3598	0.0949	1.9700e-003	0.0968		308.5161	308.5161	8.6600e-003	8.2900e-003	311.2044
<b>Total</b>	<b>0.1195</b>	<b>0.1829</b>	<b>1.1366</b>	<b>3.4300e-003</b>	<b>0.3705</b>	<b>3.1100e-003</b>	<b>0.3736</b>	<b>0.0986</b>	<b>2.8900e-003</b>	<b>0.1014</b>		<b>349.8404</b>	<b>349.8404</b>	<b>0.0102</b>	<b>0.0143</b>	<b>354.3564</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205		1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0859</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>		<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0471	0.0344	0.4485	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		125.3346	125.3346	3.5200e-003	3.3700e-003	126.4268
<b>Total</b>	<b>0.0507</b>	<b>0.1326</b>	<b>0.4812</b>	<b>1.6200e-003</b>	<b>0.1581</b>	<b>1.8400e-003</b>	<b>0.1600</b>	<b>0.0422</b>	<b>1.7200e-003</b>	<b>0.0440</b>		<b>166.6590</b>	<b>166.6590</b>	<b>5.0400e-003</b>	<b>9.3800e-003</b>	<b>169.5788</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6877	6.7738	8.8060	0.0135		0.3474	0.3474		0.3205	0.3205	0.0000	1,297.3789	1,297.3789	0.4113		1,307.6608
Paving	0.3982					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0859</b>	<b>6.7738</b>	<b>8.8060</b>	<b>0.0135</b>		<b>0.3474</b>	<b>0.3474</b>		<b>0.3205</b>	<b>0.3205</b>	<b>0.0000</b>	<b>1,297.3789</b>	<b>1,297.3789</b>	<b>0.4113</b>		<b>1,307.6608</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0471	0.0344	0.4485	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		125.3346	125.3346	3.5200e-003	3.3700e-003	126.4268
<b>Total</b>	<b>0.0507</b>	<b>0.1326</b>	<b>0.4812</b>	<b>1.6200e-003</b>	<b>0.1581</b>	<b>1.8400e-003</b>	<b>0.1600</b>	<b>0.0422</b>	<b>1.7200e-003</b>	<b>0.0440</b>		<b>166.6590</b>	<b>166.6590</b>	<b>5.0400e-003</b>	<b>9.3800e-003</b>	<b>169.5788</b>

**3.7 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	5.9384					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
<b>Total</b>	<b>6.1429</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0217	0.0159	0.2070	5.7000e-004	0.0671	4.0000e-004	0.0675	0.0178	3.7000e-004	0.0182		57.8468	57.8468	1.6200e-003	1.5600e-003	58.3508
<b>Total</b>	<b>0.0253</b>	<b>0.1141</b>	<b>0.2397</b>	<b>9.5000e-004</b>	<b>0.0799</b>	<b>1.3700e-003</b>	<b>0.0812</b>	<b>0.0215</b>	<b>1.2900e-003</b>	<b>0.0228</b>		<b>99.1711</b>	<b>99.1711</b>	<b>3.1400e-003</b>	<b>7.5700e-003</b>	<b>101.5028</b>

**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	5.9384					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
<b>Total</b>	<b>6.1429</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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					



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0217	0.0159	0.2070	5.7000e-004	0.0671	4.0000e-004	0.0675	0.0178	3.7000e-004	0.0182		57.8468	57.8468	1.6200e-003	1.5600e-003	58.3508
<b>Total</b>	<b>0.0253</b>	<b>0.1141</b>	<b>0.2397</b>	<b>9.5000e-004</b>	<b>0.0799</b>	<b>1.3700e-003</b>	<b>0.0812</b>	<b>0.0215</b>	<b>1.2900e-003</b>	<b>0.0228</b>		<b>99.1711</b>	<b>99.1711</b>	<b>3.1400e-003</b>	<b>7.5700e-003</b>	<b>101.5028</b>

**3.8 Fencing and Landscaping - 2022**  
Unmitigated Construction On-Site

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

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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	7.2400e-003	5.2900e-003	0.0690	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.2823	19.2823	5.4000e-004	5.2000e-004	19.4503
<b>Total</b>	<b>0.0108</b>	<b>0.1036</b>	<b>0.1017</b>	<b>5.7000e-004</b>	<b>0.0352</b>	<b>1.1000e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>60.6066</b>	<b>60.6066</b>	<b>2.0600e-003</b>	<b>6.5300e-003</b>	<b>62.6023</b>

**Mitigated Construction On-Site**

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

**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					

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	7.2400e-003	5.2900e-003	0.0690	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.2823	19.2823	5.4000e-004	5.2000e-004	19.4503
<b>Total</b>	<b>0.0108</b>	<b>0.1036</b>	<b>0.1017</b>	<b>5.7000e-004</b>	<b>0.0352</b>	<b>1.1000e-003</b>	<b>0.0363</b>	<b>9.6200e-003</b>	<b>1.0400e-003</b>	<b>0.0107</b>		<b>60.6066</b>	<b>60.6066</b>	<b>2.0600e-003</b>	<b>6.5300e-003</b>	<b>62.6023</b>

**3.9 Trenching and Utilities - 2022**  
Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130		662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>		<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

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

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Vendor	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520
Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0326</b>	<b>0.1194</b>	<b>0.3087</b>	<b>1.1400e-003</b>	<b>0.1022</b>	<b>1.5100e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>118.4533</b>	<b>118.4533</b>	<b>3.6900e-003</b>	<b>8.0800e-003</b>	<b>120.9531</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5687	5.3066	5.0474	6.9700e-003		0.3394	0.3394		0.3130	0.3130	0.0000	662.6678	662.6678	0.2068		667.8365
<b>Total</b>	<b>0.5687</b>	<b>5.3066</b>	<b>5.0474</b>	<b>6.9700e-003</b>		<b>0.3394</b>	<b>0.3394</b>		<b>0.3130</b>	<b>0.3130</b>	<b>0.0000</b>	<b>662.6678</b>	<b>662.6678</b>	<b>0.2068</b>		<b>667.8365</b>

**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	3.6000e-003	0.0983	0.0327	3.8000e-004	0.0128	9.7000e-004	0.0138	3.6900e-003	9.2000e-004	4.6100e-003		41.3243	41.3243	1.5200e-003	6.0100e-003	43.1520

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Worker	0.0290	0.0211	0.2760	7.6000e-004	0.0894	5.4000e-004	0.0900	0.0237	4.9000e-004	0.0242		77.1290	77.1290	2.1700e-003	2.0700e-003	77.8011
<b>Total</b>	<b>0.0326</b>	<b>0.1194</b>	<b>0.3087</b>	<b>1.1400e-003</b>	<b>0.1022</b>	<b>1.5100e-003</b>	<b>0.1037</b>	<b>0.0274</b>	<b>1.4100e-003</b>	<b>0.0288</b>		<b>118.4533</b>	<b>118.4533</b>	<b>3.6900e-003</b>	<b>8.0800e-003</b>	<b>120.9531</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Junior College (2yr)	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

**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

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.00370
Other Asphalt Surfaces	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.00000

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
NaturalGas Unmitigated	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	451.976	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8700e-003</b>	<b>0.0443</b>	<b>0.0372</b>	<b>2.7000e-004</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>53.1737</b>	<b>53.1737</b>	<b>1.0200e-003</b>	<b>9.7000e-004</b>	<b>53.4897</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	0.451976	4.8700e-003	0.0443	0.0372	2.7000e-004		3.3700e-003	3.3700e-003		3.3700e-003	3.3700e-003		53.1737	53.1737	1.0200e-003	9.7000e-004	53.4897
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8700e-003</b>	<b>0.0443</b>	<b>0.0372</b>	<b>2.7000e-004</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>3.3700e-003</b>	<b>3.3700e-003</b>		<b>53.1737</b>	<b>53.1737</b>	<b>1.0200e-003</b>	<b>9.7000e-004</b>	<b>53.4897</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

No Hearths Installed

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
Unmitigated	0.2523	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2379					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
<b>Total</b>	<b>0.2523</b>	<b>7.0000e-005</b>	<b>7.8300e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0168</b>	<b>0.0168</b>	<b>4.0000e-005</b>		<b>0.0179</b>

**Mitigated**



El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0138					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2379					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.8300e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0168	0.0168	4.0000e-005		0.0179
<b>Total</b>	<b>0.2523</b>	<b>7.0000e-005</b>	<b>7.8300e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0168</b>	<b>0.0168</b>	<b>4.0000e-005</b>		<b>0.0179</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

El Camino College Fire Academy Phase 1 - South Coast Air Basin, Winter

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

**El Camino College Fire Academy Phase 2  
South Coast Air Basin, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	8.81	1000sqft	0.20	8,808.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Client-provided dimensions.

Construction Phase - PD and Client provided data responses.

Off-road Equipment -

Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.

Off-road Equipment -

Trips and VMT - 4 vendor trips added to site prep to account for potential water trucks. 2 vendor trucks added to remaining phases without default vendor trips.

Grading - All grading complete during Phase 1.

Architectural Coating - Client committed to low-VOC paints (50 g/L)

Vehicle Trips - Construction-only.

Area Coating - Client committed to low-VOC (50 g/L) paints

Construction Off-road Equipment Mitigation - Water exposed area 2x per day SCAQMD Rule 403 (Fugitive Dust)

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	100.00	176.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	0.50	0.00
tblLandUse	LandUseSquareFeet	8,810.00	8,808.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	20.25	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

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

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

2024	0.1051	0.8353	1.0407	1.7200e-003	3.3300e-003	0.0352	0.0385	8.9000e-004	0.0337	0.0346	0.0000	143.4845	143.4845	0.0267	2.3000e-004	144.2208
2025	0.0544	0.2719	0.3595	6.0000e-004	1.1900e-003	0.0105	0.0117	3.2000e-004	0.0100	0.0104	0.0000	49.8467	49.8467	9.0500e-003	9.0000e-005	50.0988
<b>Maximum</b>	<b>0.1051</b>	<b>0.8353</b>	<b>1.0407</b>	<b>1.7200e-003</b>	<b>3.3300e-003</b>	<b>0.0352</b>	<b>0.0385</b>	<b>8.9000e-004</b>	<b>0.0337</b>	<b>0.0346</b>	<b>0.0000</b>	<b>143.4845</b>	<b>143.4845</b>	<b>0.0267</b>	<b>2.3000e-004</b>	<b>144.2208</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.1051	0.8353	1.0407	1.7200e-003	3.3300e-003	0.0352	0.0385	8.9000e-004	0.0337	0.0346	0.0000	143.4844	143.4844	0.0267	2.3000e-004	144.2206
2025	0.0544	0.2719	0.3595	6.0000e-004	1.1900e-003	0.0105	0.0117	3.2000e-004	0.0100	0.0104	0.0000	49.8467	49.8467	9.0500e-003	9.0000e-005	50.0987
<b>Maximum</b>	<b>0.1051</b>	<b>0.8353</b>	<b>1.0407</b>	<b>1.7200e-003</b>	<b>3.3300e-003</b>	<b>0.0352</b>	<b>0.0385</b>	<b>8.9000e-004</b>	<b>0.0337</b>	<b>0.0346</b>	<b>0.0000</b>	<b>143.4844</b>	<b>143.4844</b>	<b>0.0267</b>	<b>2.3000e-004</b>	<b>144.2206</b>

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2024	9-30-2024	0.3767	0.3767
2	10-1-2024	12-31-2024	0.5642	0.5642
3	1-1-2025	3-31-2025	0.3241	0.3241
		<b>Highest</b>	<b>0.5642</b>	<b>0.5642</b>

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0339	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Energy	7.2000e-004	6.5800e-003	5.5200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	25.6221	25.6221	1.7000e-003	3.2000e-004	25.7599
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	2.3243	0.0000	2.3243	0.1374	0.0000	5.7582
Water						0.0000	0.0000		0.0000	0.0000	0.1371	2.3296	2.4667	0.0143	3.6000e-004	2.9298
<b>Total</b>	<b>0.0346</b>	<b>6.5800e-003</b>	<b>5.6300e-003</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>2.4613</b>	<b>27.9519</b>	<b>30.4132</b>	<b>0.1533</b>	<b>6.8000e-004</b>	<b>34.4481</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0339	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Energy	7.2000e-004	6.5800e-003	5.5200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	25.6221	25.6221	1.7000e-003	3.2000e-004	25.7599
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

Waste						0.0000	0.0000		0.0000	0.0000	2.3243	0.0000	2.3243	0.1374	0.0000	5.7582
Water						0.0000	0.0000		0.0000	0.0000	0.1371	2.3296	2.4667	0.0143	3.6000e-004	2.9298
<b>Total</b>	<b>0.0346</b>	<b>6.5800e-003</b>	<b>5.6300e-003</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>2.4613</b>	<b>27.9519</b>	<b>30.4132</b>	<b>0.1533</b>	<b>6.8000e-004</b>	<b>34.4481</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/31/2024	7/31/2024	6	1	
2	Modular Building Installation	Building Construction	8/1/2024	2/21/2025	6	176	
3	Architectural Coating	Architectural Coating	2/22/2025	2/27/2025	6	5	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,212; Non-Residential Outdoor: 4,404; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Modular Building Installation	Cranes	1	4.00	231	0.29

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

Modular Building Installation	Forklifts	2	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	9	4.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	2.8000e-003	1.9500e-003	0.0000		1.0000e-004	1.0000e-004		9.0000e-005	9.0000e-005	0.0000	0.4274	0.4274	1.4000e-004	0.0000	0.4309
<b>Total</b>	<b>2.5000e-004</b>	<b>2.8000e-003</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.4274</b>	<b>0.4274</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4309</b>



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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	8.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0352	0.0352	0.0000	1.0000e-005	0.0367
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0208	0.0208	0.0000	0.0000	0.0210
<b>Total</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0560</b>	<b>0.0560</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0577</b>

**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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5000e-004	2.8000e-003	1.9500e-003	0.0000		1.0000e-004	1.0000e-004		9.0000e-005	9.0000e-005	0.0000	0.4274	0.4274	1.4000e-004	0.0000	0.4309
<b>Total</b>	<b>2.5000e-004</b>	<b>2.8000e-003</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.4274</b>	<b>0.4274</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4309</b>

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	8.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0352	0.0352	0.0000	1.0000e-005	0.0367
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0208	0.0208	0.0000	0.0000	0.0210
<b>Total</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0560</b>	<b>0.0560</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0577</b>

**3.3 Modular Building Installation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1040	0.8293	1.0298	1.6800e-003		0.0351	0.0351		0.0336	0.0336	0.0000	139.6652	139.6652	0.0265	0.0000	140.3279
<b>Total</b>	<b>0.1040</b>	<b>0.8293</b>	<b>1.0298</b>	<b>1.6800e-003</b>		<b>0.0351</b>	<b>0.0351</b>		<b>0.0336</b>	<b>0.0336</b>	<b>0.0000</b>	<b>139.6652</b>	<b>139.6652</b>	<b>0.0265</b>	<b>0.0000</b>	<b>140.3279</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.5300e-003	9.2000e-004	1.0000e-005	4.1000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1523	1.1523	4.0000e-005	1.7000e-004	1.2033
Worker	7.6000e-004	5.6000e-004	7.9500e-003	2.0000e-005	2.8700e-003	2.0000e-005	2.8900e-003	7.6000e-004	1.0000e-005	7.8000e-004	0.0000	2.1836	2.1836	5.0000e-005	5.0000e-005	2.2010
<b>Total</b>	<b>8.3000e-004</b>	<b>3.0900e-003</b>	<b>8.8700e-003</b>	<b>3.0000e-005</b>	<b>3.2800e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>3.3359</b>	<b>3.3359</b>	<b>9.0000e-005</b>	<b>2.2000e-004</b>	<b>3.4042</b>

**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	0.1040	0.8293	1.0298	1.6800e-003		0.0351	0.0351		0.0336	0.0336	0.0000	139.6651	139.6651	0.0265	0.0000	140.3278
<b>Total</b>	<b>0.1040</b>	<b>0.8293</b>	<b>1.0298</b>	<b>1.6800e-003</b>		<b>0.0351</b>	<b>0.0351</b>		<b>0.0336</b>	<b>0.0336</b>	<b>0.0000</b>	<b>139.6651</b>	<b>139.6651</b>	<b>0.0265</b>	<b>0.0000</b>	<b>140.3278</b>

**Mitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.5300e-003	9.2000e-004	1.0000e-005	4.1000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.1523	1.1523	4.0000e-005	1.7000e-004	1.2033
Worker	7.6000e-004	5.6000e-004	7.9500e-003	2.0000e-005	2.8700e-003	2.0000e-005	2.8900e-003	7.6000e-004	1.0000e-005	7.8000e-004	0.0000	2.1836	2.1836	5.0000e-005	5.0000e-005	2.2010
<b>Total</b>	<b>8.3000e-004</b>	<b>3.0900e-003</b>	<b>8.8700e-003</b>	<b>3.0000e-005</b>	<b>3.2800e-003</b>	<b>3.0000e-005</b>	<b>3.3200e-003</b>	<b>8.8000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>3.3359</b>	<b>3.3359</b>	<b>9.0000e-005</b>	<b>2.2000e-004</b>	<b>3.4042</b>

**3.3 Modular Building Installation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0332	0.2678	0.3520	5.8000e-004		0.0103	0.0103		9.9000e-003	9.9000e-003	0.0000	47.9886	47.9886	8.9800e-003	0.0000	48.2130
<b>Total</b>	<b>0.0332</b>	<b>0.2678</b>	<b>0.3520</b>	<b>5.8000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>47.9886</b>	<b>47.9886</b>	<b>8.9800e-003</b>	<b>0.0000</b>	<b>48.2130</b>

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

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
Vendor	2.0000e-005	8.6000e-004	3.1000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.3887	0.3887	1.0000e-005	6.0000e-005	0.4060
Worker	2.4000e-004	1.7000e-004	2.5500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7246	0.7246	2.0000e-005	2.0000e-005	0.7301
<b>Total</b>	<b>2.6000e-004</b>	<b>1.0300e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>1.0000e-005</b>	<b>1.1400e-003</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1133</b>	<b>1.1133</b>	<b>3.0000e-005</b>	<b>8.0000e-005</b>	<b>1.1361</b>

**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	0.0332	0.2678	0.3520	5.8000e-004		0.0103	0.0103		9.9000e-003	9.9000e-003	0.0000	47.9885	47.9885	8.9800e-003	0.0000	48.2129
<b>Total</b>	<b>0.0332</b>	<b>0.2678</b>	<b>0.3520</b>	<b>5.8000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>9.9000e-003</b>	<b>9.9000e-003</b>	<b>0.0000</b>	<b>47.9885</b>	<b>47.9885</b>	<b>8.9800e-003</b>	<b>0.0000</b>	<b>48.2129</b>

**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					

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	8.6000e-004	3.1000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.3887	0.3887	1.0000e-005	6.0000e-005	0.4060
Worker	2.4000e-004	1.7000e-004	2.5500e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7246	0.7246	2.0000e-005	2.0000e-005	0.7301
<b>Total</b>	<b>2.6000e-004</b>	<b>1.0300e-003</b>	<b>2.8600e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>1.0000e-005</b>	<b>1.1400e-003</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1133</b>	<b>1.1133</b>	<b>3.0000e-005</b>	<b>8.0000e-005</b>	<b>1.1361</b>

**3.4 Architectural Coating - 2025**  
**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-004	2.8600e-003	4.5200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6392
<b>Total</b>	<b>0.0208</b>	<b>2.8600e-003</b>	<b>4.5200e-003</b>	<b>1.0000e-005</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6392</b>

**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					

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.9000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0864	0.0864	0.0000	1.0000e-005	0.0902
Worker	1.0000e-005	0.0000	7.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0201	0.0201	0.0000	0.0000	0.0203
<b>Total</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1065</b>	<b>0.1065</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1105</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0204					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3000e-004	2.8600e-003	4.5200e-003	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	0.6383	0.6383	3.0000e-005	0.0000	0.6392
<b>Total</b>	<b>0.0208</b>	<b>2.8600e-003</b>	<b>4.5200e-003</b>	<b>1.0000e-005</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>		<b>1.3000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.6392</b>

**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					

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.9000e-004	7.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0864	0.0864	0.0000	1.0000e-005	0.0902
Worker	1.0000e-005	0.0000	7.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0201	0.0201	0.0000	0.0000	0.0203
<b>Total</b>	<b>1.0000e-005</b>	<b>1.9000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.1065</b>	<b>0.1065</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.1105</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		



El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

**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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.003706

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.4635	18.4635	1.5600e-003	1.9000e-004	18.5588
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.4635	18.4635	1.5600e-003	1.9000e-004	18.5588
NaturalGas Mitigated	7.2000e-004	6.5800e-003	5.5200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1585	7.1585	1.4000e-004	1.3000e-004	7.2011
NaturalGas Unmitigated	7.2000e-004	6.5800e-003	5.5200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1585	7.1585	1.4000e-004	1.3000e-004	7.2011

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Junior College (2yr)	134146	7.2000e-004	6.5800e-003	5.5200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1585	7.1585	1.4000e-004	1.3000e-004	7.2011
<b>Total</b>		<b>7.2000e-004</b>	<b>6.5800e-003</b>	<b>5.5200e-003</b>	<b>4.0000e-005</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>7.1585</b>	<b>7.1585</b>	<b>1.4000e-004</b>	<b>1.3000e-004</b>	<b>7.2011</b>

**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					
Junior College (2yr)	134146	7.2000e-004	6.5800e-003	5.5200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1585	7.1585	1.4000e-004	1.3000e-004	7.2011
<b>Total</b>		<b>7.2000e-004</b>	<b>6.5800e-003</b>	<b>5.5200e-003</b>	<b>4.0000e-005</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>		<b>5.0000e-004</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>7.1585</b>	<b>7.1585</b>	<b>1.4000e-004</b>	<b>1.3000e-004</b>	<b>7.2011</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	104111	18.4635	1.5600e-003	1.9000e-004	18.5588
<b>Total</b>		<b>18.4635</b>	<b>1.5600e-003</b>	<b>1.9000e-004</b>	<b>18.5588</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2yr)	104111	18.4635	1.5600e-003	1.9000e-004	18.5588
<b>Total</b>		<b>18.4635</b>	<b>1.5600e-003</b>	<b>1.9000e-004</b>	<b>18.5588</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0339	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
Unmitigated	0.0339	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004

**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	2.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
<b>Total</b>	<b>0.0339</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

**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
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El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

SubCategory	tons/yr										MT/yr					
Architectural Coating	2.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0318					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.2000e-004	2.2000e-004	0.0000	0.0000	2.3000e-004
<b>Total</b>	<b>0.0339</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.3000e-004</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.4667	0.0143	3.6000e-004	2.9298
Unmitigated	2.4667	0.0143	3.6000e-004	2.9298

**7.2 Water by Land Use**

**Unmitigated**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	0.432122 / 0.675883	2.4667	0.0143	3.6000e-004	2.9298
<b>Total</b>		<b>2.4667</b>	<b>0.0143</b>	<b>3.6000e-004</b>	<b>2.9298</b>

**Mitigated**

Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2yr)	0.432122 / 0.675883	2.4667	0.0143	3.6000e-004	2.9298
<b>Total</b>		<b>2.4667</b>	<b>0.0143</b>	<b>3.6000e-004</b>	<b>2.9298</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

	MT/yr			
Mitigated	2.3243	0.1374	0.0000	5.7582
Unmitigated	2.3243	0.1374	0.0000	5.7582

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	11.45	2.3243	0.1374	0.0000	5.7582
<b>Total</b>		<b>2.3243</b>	<b>0.1374</b>	<b>0.0000</b>	<b>5.7582</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2yr)	11.45	2.3243	0.1374	0.0000	5.7582
<b>Total</b>		<b>2.3243</b>	<b>0.1374</b>	<b>0.0000</b>	<b>5.7582</b>

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Annual

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

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

**El Camino College Fire Academy Phase 2  
South Coast Air Basin, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	8.81	1000sqft	0.20	8,808.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Client-provided dimensions.
- Construction Phase - PD and Client provided data responses.
- Off-road Equipment -
- Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.
- Off-road Equipment -
- Trips and VMT - 4 vendor trips added to site prep to account for potential water trucks. 2 vendor trucks added to remaining phases without default vendor trips.
- Grading - All grading complete during Phase 1.
- Architectural Coating - Client committed to low-VOC paints (50 g/L)
- Vehicle Trips - Construction-only.
- Area Coating - Client committed to low-VOC (50 g/L) paints
- Construction Off-road Equipment Mitigation - Water exposed area 2x per day SCAQMD Rule 403 (Fugitive Dust)

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	100.00	176.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	0.50	0.00
tblLandUse	LandUseSquareFeet	8,810.00	8,808.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	20.25	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

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

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

2024	1.6005	12.7051	15.8661	0.0262	0.0815	0.5359	0.5870	0.0222	0.5133	0.5270	0.0000	2,408.2027	2,408.2027	0.4477	0.0123	2,420.4844
2025	8.3407	11.9470	15.7772	0.0262	0.0511	0.4597	0.5109	0.0137	0.4404	0.4541	0.0000	2,407.1347	2,407.1347	0.4412	5.7400e-003	2,419.2245
<b>Maximum</b>	<b>8.3407</b>	<b>12.7051</b>	<b>15.8661</b>	<b>0.0262</b>	<b>0.0815</b>	<b>0.5359</b>	<b>0.5870</b>	<b>0.0222</b>	<b>0.5133</b>	<b>0.5270</b>	<b>0.0000</b>	<b>2,408.2027</b>	<b>2,408.2027</b>	<b>0.4477</b>	<b>0.0123</b>	<b>2,420.4844</b>

**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					
2024	1.6005	12.7051	15.8661	0.0262	0.0815	0.5359	0.5870	0.0222	0.5133	0.5270	0.0000	2,408.2027	2,408.2027	0.4477	0.0123	2,420.4844
2025	8.3407	11.9470	15.7772	0.0262	0.0511	0.4597	0.5109	0.0137	0.4404	0.4541	0.0000	2,407.1347	2,407.1347	0.4412	5.7400e-003	2,419.2245
<b>Maximum</b>	<b>8.3407</b>	<b>12.7051</b>	<b>15.8661</b>	<b>0.0262</b>	<b>0.0815</b>	<b>0.5359</b>	<b>0.5870</b>	<b>0.0222</b>	<b>0.5133</b>	<b>0.5270</b>	<b>0.0000</b>	<b>2,408.2027</b>	<b>2,408.2027</b>	<b>0.4477</b>	<b>0.0123</b>	<b>2,420.4844</b>

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

**2.2 Overall Operational**

**Unmitigated Operational**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Energy	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1896</b>	<b>0.0360</b>	<b>0.0312</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>43.2399</b>	<b>43.2399</b>	<b>8.4000e-004</b>	<b>7.9000e-004</b>	<b>43.4970</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Energy	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1896</b>	<b>0.0360</b>	<b>0.0312</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>43.2399</b>	<b>43.2399</b>	<b>8.4000e-004</b>	<b>7.9000e-004</b>	<b>43.4970</b>

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

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/31/2024	7/31/2024	6	1	
2	Modular Building Installation	Building Construction	8/1/2024	2/21/2025	6	176	
3	Architectural Coating	Architectural Coating	2/22/2025	2/27/2025	6	5	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,212; Non-Residential Outdoor: 4,404; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Modular Building Installation	Cranes	1	4.00	231	0.29
Modular Building Installation	Forklifts	2	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

Modular Building Installation Architectural Coating	9	4.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
	1	1.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4985	5.6040	3.8921	9.7300e-003		0.2012	0.2012		0.1851	0.1851		942.2742	942.2742	0.3048		949.8930
<b>Total</b>	<b>0.4985</b>	<b>5.6040</b>	<b>3.8921</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2012</b>	<b>0.2012</b>	<b>0.0000</b>	<b>0.1851</b>	<b>0.1851</b>		<b>942.2742</b>	<b>942.2742</b>	<b>0.3048</b>		<b>949.8930</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1800e-003	0.1470	0.0553	7.2000e-004	0.0256	8.1000e-004	0.0264	7.3700e-003	7.8000e-004	8.1500e-003		77.5132	77.5132	2.9100e-003	0.0113	80.9416

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

Worker	0.0148	9.5200e-003	0.1623	4.7000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		47.9666	47.9666	1.0900e-003	1.0500e-003	48.3062
<b>Total</b>	<b>0.0189</b>	<b>0.1565</b>	<b>0.2176</b>	<b>1.1900e-003</b>	<b>0.0815</b>	<b>1.1100e-003</b>	<b>0.0826</b>	<b>0.0222</b>	<b>1.0600e-003</b>	<b>0.0233</b>		<b>125.4798</b>	<b>125.4798</b>	<b>4.0000e-003</b>	<b>0.0123</b>	<b>129.2478</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4985	5.6040	3.8921	9.7300e-003		0.2012	0.2012		0.1851	0.1851	0.0000	942.2742	942.2742	0.3048		949.8930
<b>Total</b>	<b>0.4985</b>	<b>5.6040</b>	<b>3.8921</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2012</b>	<b>0.2012</b>	<b>0.0000</b>	<b>0.1851</b>	<b>0.1851</b>	<b>0.0000</b>	<b>942.2742</b>	<b>942.2742</b>	<b>0.3048</b>		<b>949.8930</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1800e-003	0.1470	0.0553	7.2000e-004	0.0256	8.1000e-004	0.0264	7.3700e-003	7.8000e-004	8.1500e-003		77.5132	77.5132	2.9100e-003	0.0113	80.9416

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

Worker	0.0148	9.5200e-003	0.1623	4.7000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		47.9666	47.9666	1.0900e-003	1.0500e-003	48.3062
<b>Total</b>	<b>0.0189</b>	<b>0.1565</b>	<b>0.2176</b>	<b>1.1900e-003</b>	<b>0.0815</b>	<b>1.1100e-003</b>	<b>0.0826</b>	<b>0.0222</b>	<b>1.0600e-003</b>	<b>0.0233</b>		<b>125.4798</b>	<b>125.4798</b>	<b>4.0000e-003</b>	<b>0.0123</b>	<b>129.2478</b>

**3.3 Modular Building Installation - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5876	12.6607	15.7225	0.0257		0.5355	0.5355		0.5129	0.5129		2,350.4512	2,350.4512	0.4461		2,361.6040
<b>Total</b>	<b>1.5876</b>	<b>12.6607</b>	<b>15.7225</b>	<b>0.0257</b>		<b>0.5355</b>	<b>0.5355</b>		<b>0.5129</b>	<b>0.5129</b>		<b>2,350.4512</b>	<b>2,350.4512</b>	<b>0.4461</b>		<b>2,361.6040</b>

**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	1.0500e-003	0.0368	0.0138	1.8000e-004	6.4000e-003	2.0000e-004	6.6100e-003	1.8400e-003	1.9000e-004	2.0400e-003		19.3783	19.3783	7.3000e-004	2.8200e-003	20.2354
Worker	0.0118	7.6100e-003	0.1298	3.8000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		38.3733	38.3733	8.7000e-004	8.4000e-004	38.6450



El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

<b>Total</b>	0.0129	0.0444	0.1437	5.6000e-004	0.0511	4.4000e-004	0.0516	0.0137	4.1000e-004	0.0141		57.7516	57.7516	1.6000e-003	3.6600e-003	58.8804
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**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
<b>Category</b>	lb/day										lb/day					
Off-Road	1.5876	12.6607	15.7225	0.0257		0.5355	0.5355		0.5129	0.5129	0.0000	2,350.4511	2,350.4511	0.4461		2,361.6040
<b>Total</b>	1.5876	12.6607	15.7225	0.0257		0.5355	0.5355		0.5129	0.5129	0.0000	2,350.4511	2,350.4511	0.4461		2,361.6040

**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
<b>Category</b>	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	1.0500e-003	0.0368	0.0138	1.8000e-004	6.4000e-003	2.0000e-004	6.6100e-003	1.8400e-003	1.9000e-004	2.0400e-003		19.3783	19.3783	7.3000e-004	2.8200e-003	20.2354
Worker	0.0118	7.6100e-003	0.1298	3.8000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		38.3733	38.3733	8.7000e-004	8.4000e-004	38.6450
<b>Total</b>	0.0129	0.0444	0.1437	5.6000e-004	0.0511	4.4000e-004	0.0516	0.0137	4.1000e-004	0.0141		57.7516	57.7516	1.6000e-003	3.6600e-003	58.8804

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

**3.3 Modular Building Installation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4767	11.9036	15.6426	0.0257		0.4593	0.4593		0.4400	0.4400		2,351.0388	2,351.0388	0.4397		2,362.0321
<b>Total</b>	<b>1.4767</b>	<b>11.9036</b>	<b>15.6426</b>	<b>0.0257</b>		<b>0.4593</b>	<b>0.4593</b>		<b>0.4400</b>	<b>0.4400</b>		<b>2,351.0388</b>	<b>2,351.0388</b>	<b>0.4397</b>		<b>2,362.0321</b>

**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	1.0200e-003	0.0366	0.0136	1.8000e-004	6.4000e-003	2.0000e-004	6.6100e-003	1.8400e-003	2.0000e-004	2.0400e-003		19.0302	19.0302	7.3000e-004	2.7700e-003	19.8734
Worker	0.0111	6.8400e-003	0.1210	3.7000e-004	0.0447	2.3000e-004	0.0449	0.0119	2.1000e-004	0.0121		37.0657	37.0657	7.8000e-004	7.8000e-004	37.3190
<b>Total</b>	<b>0.0121</b>	<b>0.0434</b>	<b>0.1346</b>	<b>5.5000e-004</b>	<b>0.0511</b>	<b>4.3000e-004</b>	<b>0.0516</b>	<b>0.0137</b>	<b>4.1000e-004</b>	<b>0.0141</b>		<b>56.0959</b>	<b>56.0959</b>	<b>1.5100e-003</b>	<b>3.5500e-003</b>	<b>57.1924</b>

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4767	11.9036	15.6426	0.0257		0.4593	0.4593		0.4400	0.4400	0.0000	2,351.0388	2,351.0388	0.4397		2,362.0321
<b>Total</b>	<b>1.4767</b>	<b>11.9036</b>	<b>15.6426</b>	<b>0.0257</b>		<b>0.4593</b>	<b>0.4593</b>		<b>0.4400</b>	<b>0.4400</b>	<b>0.0000</b>	<b>2,351.0388</b>	<b>2,351.0388</b>	<b>0.4397</b>		<b>2,362.0321</b>

**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	1.0200e-003	0.0366	0.0136	1.8000e-004	6.4000e-003	2.0000e-004	6.6100e-003	1.8400e-003	2.0000e-004	2.0400e-003		19.0302	19.0302	7.3000e-004	2.7700e-003	19.8734
Worker	0.0111	6.8400e-003	0.1210	3.7000e-004	0.0447	2.3000e-004	0.0449	0.0119	2.1000e-004	0.0121		37.0657	37.0657	7.8000e-004	7.8000e-004	37.3190
<b>Total</b>	<b>0.0121</b>	<b>0.0434</b>	<b>0.1346</b>	<b>5.5000e-004</b>	<b>0.0511</b>	<b>4.3000e-004</b>	<b>0.0516</b>	<b>0.0137</b>	<b>4.1000e-004</b>	<b>0.0141</b>		<b>56.0959</b>	<b>56.0959</b>	<b>1.5100e-003</b>	<b>3.5500e-003</b>	<b>57.1924</b>

**3.4 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1650					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>8.3359</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	2.0400e-003	0.0732	0.0272	3.5000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		38.0604	38.0604	1.4600e-003	5.5400e-003	39.7468
Worker	2.7600e-003	1.7100e-003	0.0302	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		9.2664	9.2664	2.0000e-004	2.0000e-004	9.3298
<b>Total</b>	<b>4.8000e-003</b>	<b>0.0749</b>	<b>0.0575</b>	<b>4.4000e-004</b>	<b>0.0240</b>	<b>4.7000e-004</b>	<b>0.0244</b>	<b>6.6500e-003</b>	<b>4.4000e-004</b>	<b>7.1000e-003</b>		<b>47.3268</b>	<b>47.3268</b>	<b>1.6600e-003</b>	<b>5.7400e-003</b>	<b>49.0766</b>

**Mitigated Construction On-Site**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1650					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>8.3359</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**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	2.0400e-003	0.0732	0.0272	3.5000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		38.0604	38.0604	1.4600e-003	5.5400e-003	39.7468
Worker	2.7600e-003	1.7100e-003	0.0302	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		9.2664	9.2664	2.0000e-004	2.0000e-004	9.3298
<b>Total</b>	<b>4.8000e-003</b>	<b>0.0749</b>	<b>0.0575</b>	<b>4.4000e-004</b>	<b>0.0240</b>	<b>4.7000e-004</b>	<b>0.0244</b>	<b>6.6500e-003</b>	<b>4.4000e-004</b>	<b>7.1000e-003</b>		<b>47.3268</b>	<b>47.3268</b>	<b>1.6600e-003</b>	<b>5.7400e-003</b>	<b>49.0766</b>

**4.0 Operational Detail - Mobile**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2yr)	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.00370

5.0 Energy Detail

Historical Energy Use: N

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003			43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
NaturalGas Unmitigated	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003			43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949

**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						
Junior College (2yr)	367.523	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003			43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
<b>Total</b>		<b>3.9600e-003</b>	<b>0.0360</b>	<b>0.0303</b>	<b>2.2000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>			<b>43.2380</b>	<b>43.2380</b>	<b>8.3000e-004</b>	<b>7.9000e-004</b>	<b>43.4949</b>

**Mitigated**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Junior College (2yr)	0.367523	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
<b>Total</b>		<b>3.9600e-003</b>	<b>0.0360</b>	<b>0.0303</b>	<b>2.2000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>43.2380</b>	<b>43.2380</b>	<b>8.3000e-004</b>	<b>7.9000e-004</b>	<b>43.4949</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Unmitigated	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003

**6.2 Area by SubCategory**

**Unmitigated**



El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
<b>Total</b>	<b>0.1857</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>		<b>2.0500e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
<b>Total</b>	<b>0.1857</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>		<b>2.0500e-003</b>

**7.0 Water Detail**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Summer

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

**El Camino College Fire Academy Phase 2**

**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2yr)	8.81	1000sqft	0.20	8,808.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	390.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Client-provided dimensions.
- Construction Phase - PD and Client provided data responses.
- Off-road Equipment -
- Off-road Equipment - Only vehicle trips and hand tools needed for fencing and landscaping.
- Off-road Equipment -
- Trips and VMT - 4 vendor trips added to site prep to account for potential water trucks. 2 vendor trucks added to remaining phases without default vendor trips.
- Grading - All grading complete during Phase 1.
- Architectural Coating - Client committed to low-VOC paints (50 g/L)
- Vehicle Trips - Construction-only.
- Area Coating - Client committed to low-VOC (50 g/L) paints
- Construction Off-road Equipment Mitigation - Water exposed area 2x per day SCAQMD Rule 403 (Fugitive Dust)

Table Name	Column Name	Default Value	New Value
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El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblConstructionPhase	NumDays	100.00	176.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblGrading	AcresOfGrading	0.50	0.00
tblLandUse	LandUseSquareFeet	8,810.00	8,808.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	11.23	0.00
tblVehicleTrips	SU_TR	1.21	0.00
tblVehicleTrips	WD_TR	20.25	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.6012	12.7076	15.8552	0.0262	0.0815	0.5359	0.5870	0.0222	0.5133	0.5270	0.0000	2,406.0991	2,406.0991	0.4477	0.0124	2,418.3986
2025	8.3408	11.9494	15.7671	0.0262	0.0511	0.4597	0.5109	0.0137	0.4404	0.4541	0.0000	2,405.1070	2,405.1070	0.4413	5.7600e-003	2,417.2137

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

Maximum	8.3408	12.7076	15.8552	0.0262	0.0815	0.5359	0.5870	0.0222	0.5133	0.5270	0.0000	2,406.0991	2,406.0991	0.4477	0.0124	2,418.3986
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**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					
2024	1.6012	12.7076	15.8552	0.0262	0.0815	0.5359	0.5870	0.0222	0.5133	0.5270	0.0000	2,406.0990	2,406.0990	0.4477	0.0124	2,418.3986
2025	8.3408	11.9494	15.7671	0.0262	0.0511	0.4597	0.5109	0.0137	0.4404	0.4541	0.0000	2,405.1070	2,405.1070	0.4413	5.7600e-003	2,417.2137
Maximum	8.3408	12.7076	15.8552	0.0262	0.0815	0.5359	0.5870	0.0222	0.5133	0.5270	0.0000	2,406.0990	2,406.0990	0.4477	0.0124	2,418.3986

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

Energy	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1896</b>	<b>0.0360</b>	<b>0.0312</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>43.2399</b>	<b>43.2399</b>	<b>8.4000e-004</b>	<b>7.9000e-004</b>	<b>43.4970</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005		2.0500e-003
Energy	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.1896</b>	<b>0.0360</b>	<b>0.0312</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>	<b>0.0000</b>	<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>43.2399</b>	<b>43.2399</b>	<b>8.4000e-004</b>	<b>7.9000e-004</b>	<b>43.4970</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/31/2024	7/31/2024	6	1	

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

2	Modular Building Installation	Building Construction	8/1/2024	2/21/2025	6	176
3	Architectural Coating	Architectural Coating	2/22/2025	2/27/2025	6	5

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,212; Non-Residential Outdoor: 4,404; Striped Parking Area: 0 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Modular Building Installation	Cranes	1	4.00	231	0.29
Modular Building Installation	Forklifts	2	6.00	89	0.20
Modular Building Installation	Generator Sets	1	8.00	84	0.74
Modular Building Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Modular Building Installation	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Modular Building Installation	9	4.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Site Preparation - 2024**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4985	5.6040	3.8921	9.7300e-003		0.2012	0.2012		0.1851	0.1851		942.2742	942.2742	0.3048		949.8930
<b>Total</b>	<b>0.4985</b>	<b>5.6040</b>	<b>3.8921</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2012</b>	<b>0.2012</b>	<b>0.0000</b>	<b>0.1851</b>	<b>0.1851</b>		<b>942.2742</b>	<b>942.2742</b>	<b>0.3048</b>		<b>949.8930</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0100e-003	0.1539	0.0570	7.2000e-004	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1500e-003		77.6445	77.6445	2.9000e-003	0.0113	81.0809
Worker	0.0158	0.0104	0.1480	4.5000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		45.2960	45.2960	1.1000e-003	1.1100e-003	45.6555
<b>Total</b>	<b>0.0198</b>	<b>0.1644</b>	<b>0.2051</b>	<b>1.1700e-003</b>	<b>0.0815</b>	<b>1.1200e-003</b>	<b>0.0826</b>	<b>0.0222</b>	<b>1.0600e-003</b>	<b>0.0233</b>		<b>122.9404</b>	<b>122.9404</b>	<b>4.0000e-003</b>	<b>0.0124</b>	<b>126.7364</b>

**Mitigated Construction On-Site**



El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4985	5.6040	3.8921	9.7300e-003		0.2012	0.2012		0.1851	0.1851	0.0000	942.2742	942.2742	0.3048		949.8930
<b>Total</b>	<b>0.4985</b>	<b>5.6040</b>	<b>3.8921</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2012</b>	<b>0.2012</b>	<b>0.0000</b>	<b>0.1851</b>	<b>0.1851</b>	<b>0.0000</b>	<b>942.2742</b>	<b>942.2742</b>	<b>0.3048</b>		<b>949.8930</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0100e-003	0.1539	0.0570	7.2000e-004	0.0256	8.2000e-004	0.0264	7.3700e-003	7.8000e-004	8.1500e-003		77.6445	77.6445	2.9000e-003	0.0113	81.0809
Worker	0.0158	0.0104	0.1480	4.5000e-004	0.0559	3.0000e-004	0.0562	0.0148	2.8000e-004	0.0151		45.2960	45.2960	1.1000e-003	1.1100e-003	45.6555
<b>Total</b>	<b>0.0198</b>	<b>0.1644</b>	<b>0.2051</b>	<b>1.1700e-003</b>	<b>0.0815</b>	<b>1.1200e-003</b>	<b>0.0826</b>	<b>0.0222</b>	<b>1.0600e-003</b>	<b>0.0233</b>		<b>122.9404</b>	<b>122.9404</b>	<b>4.0000e-003</b>	<b>0.0124</b>	<b>126.7364</b>

**3.3 Modular Building Installation - 2024**

**Unmitigated Construction On-Site**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.5876	12.6607	15.7225	0.0257		0.5355	0.5355		0.5129	0.5129			2,350.4512	2,350.4512	0.4461		2,361.6040
<b>Total</b>	<b>1.5876</b>	<b>12.6607</b>	<b>15.7225</b>	<b>0.0257</b>		<b>0.5355</b>	<b>0.5355</b>		<b>0.5129</b>	<b>0.5129</b>			<b>2,350.4512</b>	<b>2,350.4512</b>	<b>0.4461</b>		<b>2,361.6040</b>

**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	
Vendor	1.0000e-003	0.0385	0.0143	1.8000e-004	6.4000e-003	2.0000e-004	6.6100e-003	1.8400e-003	2.0000e-004	2.0400e-003			19.4111	19.4111	7.2000e-004	2.8200e-003	20.2702
Worker	0.0126	8.3500e-003	0.1184	3.6000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121			36.2368	36.2368	8.8000e-004	8.9000e-004	36.5244
<b>Total</b>	<b>0.0136</b>	<b>0.0468</b>	<b>0.1327</b>	<b>5.4000e-004</b>	<b>0.0511</b>	<b>4.4000e-004</b>	<b>0.0516</b>	<b>0.0137</b>	<b>4.2000e-004</b>	<b>0.0141</b>			<b>55.6479</b>	<b>55.6479</b>	<b>1.6000e-003</b>	<b>3.7100e-003</b>	<b>56.7946</b>

**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					

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

Off-Road	1.5876	12.6607	15.7225	0.0257		0.5355	0.5355		0.5129	0.5129	0.0000	2,350.4511	2,350.4511	0.4461		2,361.6040
<b>Total</b>	<b>1.5876</b>	<b>12.6607</b>	<b>15.7225</b>	<b>0.0257</b>		<b>0.5355</b>	<b>0.5355</b>		<b>0.5129</b>	<b>0.5129</b>	<b>0.0000</b>	<b>2,350.4511</b>	<b>2,350.4511</b>	<b>0.4461</b>		<b>2,361.6040</b>

**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	1.0000e-003	0.0385	0.0143	1.8000e-004	6.4000e-003	2.0000e-004	6.6100e-003	1.8400e-003	2.0000e-004	2.0400e-003		19.4111	19.4111	7.2000e-004	2.8200e-003	20.2702
Worker	0.0126	8.3500e-003	0.1184	3.6000e-004	0.0447	2.4000e-004	0.0450	0.0119	2.2000e-004	0.0121		36.2368	36.2368	8.8000e-004	8.9000e-004	36.5244
<b>Total</b>	<b>0.0136</b>	<b>0.0468</b>	<b>0.1327</b>	<b>5.4000e-004</b>	<b>0.0511</b>	<b>4.4000e-004</b>	<b>0.0516</b>	<b>0.0137</b>	<b>4.2000e-004</b>	<b>0.0141</b>		<b>55.6479</b>	<b>55.6479</b>	<b>1.6000e-003</b>	<b>3.7100e-003</b>	<b>56.7946</b>

**3.3 Modular Building Installation - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4767	11.9036	15.6426	0.0257		0.4593	0.4593		0.4400	0.4400		2,351.0388	2,351.0388	0.4397		2,362.0321
<b>Total</b>	<b>1.4767</b>	<b>11.9036</b>	<b>15.6426</b>	<b>0.0257</b>		<b>0.4593</b>	<b>0.4593</b>		<b>0.4400</b>	<b>0.4400</b>		<b>2,351.0388</b>	<b>2,351.0388</b>	<b>0.4397</b>		<b>2,362.0321</b>

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0383	0.0141	1.8000e-004	6.4000e-003	2.1000e-004	6.6100e-003	1.8400e-003	2.0000e-004	2.0400e-003		19.0630	19.0630	7.3000e-004	2.7800e-003	19.9081
Worker	0.0118	7.5000e-003	0.1104	3.5000e-004	0.0447	2.3000e-004	0.0449	0.0119	2.1000e-004	0.0121		35.0052	35.0052	8.0000e-004	8.3000e-004	35.2734
<b>Total</b>	<b>0.0128</b>	<b>0.0458</b>	<b>0.1245</b>	<b>5.3000e-004</b>	<b>0.0511</b>	<b>4.4000e-004</b>	<b>0.0516</b>	<b>0.0137</b>	<b>4.1000e-004</b>	<b>0.0141</b>		<b>54.0682</b>	<b>54.0682</b>	<b>1.5300e-003</b>	<b>3.6100e-003</b>	<b>55.1816</b>

**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	1.4767	11.9036	15.6426	0.0257		0.4593	0.4593		0.4400	0.4400	0.0000	2,351.0388	2,351.0388	0.4397		2,362.0321
<b>Total</b>	<b>1.4767</b>	<b>11.9036</b>	<b>15.6426</b>	<b>0.0257</b>		<b>0.4593</b>	<b>0.4593</b>		<b>0.4400</b>	<b>0.4400</b>	<b>0.0000</b>	<b>2,351.0388</b>	<b>2,351.0388</b>	<b>0.4397</b>		<b>2,362.0321</b>

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8000e-004	0.0383	0.0141	1.8000e-004	6.4000e-003	2.1000e-004	6.6100e-003	1.8400e-003	2.0000e-004	2.0400e-003		19.0630	19.0630	7.3000e-004	2.7800e-003	19.9081
Worker	0.0118	7.5000e-003	0.1104	3.5000e-004	0.0447	2.3000e-004	0.0449	0.0119	2.1000e-004	0.0121		35.0052	35.0052	8.0000e-004	8.3000e-004	35.2734
<b>Total</b>	<b>0.0128</b>	<b>0.0458</b>	<b>0.1245</b>	<b>5.3000e-004</b>	<b>0.0511</b>	<b>4.4000e-004</b>	<b>0.0516</b>	<b>0.0137</b>	<b>4.1000e-004</b>	<b>0.0141</b>		<b>54.0682</b>	<b>54.0682</b>	<b>1.5300e-003</b>	<b>3.6100e-003</b>	<b>55.1816</b>

**3.4 Architectural Coating - 2025**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.1650					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>8.3359</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Unmitigated Construction Off-Site**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9600e-003	0.0766	0.0281	3.5000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		38.1260	38.1260	1.4500e-003	5.5500e-003	39.8163
Worker	2.9600e-003	1.8800e-003	0.0276	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		8.7513	8.7513	2.0000e-004	2.1000e-004	8.8184
<b>Total</b>	<b>4.9200e-003</b>	<b>0.0785</b>	<b>0.0557</b>	<b>4.4000e-004</b>	<b>0.0240</b>	<b>4.7000e-004</b>	<b>0.0244</b>	<b>6.6500e-003</b>	<b>4.4000e-004</b>	<b>7.1000e-003</b>		<b>46.8773</b>	<b>46.8773</b>	<b>1.6500e-003</b>	<b>5.7600e-003</b>	<b>48.6346</b>

**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	8.1650					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
<b>Total</b>	<b>8.3359</b>	<b>1.1455</b>	<b>1.8091</b>	<b>2.9700e-003</b>		<b>0.0515</b>	<b>0.0515</b>		<b>0.0515</b>	<b>0.0515</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0154</b>		<b>281.8319</b>

**Mitigated Construction Off-Site**

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9600e-003	0.0766	0.0281	3.5000e-004	0.0128	4.1000e-004	0.0132	3.6900e-003	3.9000e-004	4.0800e-003		38.1260	38.1260	1.4500e-003	5.5500e-003	39.8163
Worker	2.9600e-003	1.8800e-003	0.0276	9.0000e-005	0.0112	6.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0200e-003		8.7513	8.7513	2.0000e-004	2.1000e-004	8.8184
<b>Total</b>	<b>4.9200e-003</b>	<b>0.0785</b>	<b>0.0557</b>	<b>4.4000e-004</b>	<b>0.0240</b>	<b>4.7000e-004</b>	<b>0.0244</b>	<b>6.6500e-003</b>	<b>4.4000e-004</b>	<b>7.1000e-003</b>		<b>46.8773</b>	<b>46.8773</b>	<b>1.6500e-003</b>	<b>5.7600e-003</b>	<b>48.6346</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Junior College (2yr)	0.00	0.00	0.00		
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>		

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

**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
Junior College (2yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2yr)	0.543401	0.061496	0.184986	0.128935	0.023820	0.006437	0.011961	0.008652	0.000812	0.000508	0.024540	0.000745	0.003706

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
NaturalGas Mitigated	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
NaturalGas Unmitigated	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003		43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**



El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Junior College (2yr)	367.523	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003			43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
<b>Total</b>		<b>3.9600e-003</b>	<b>0.0360</b>	<b>0.0303</b>	<b>2.2000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>			<b>43.2380</b>	<b>43.2380</b>	<b>8.3000e-004</b>	<b>7.9000e-004</b>	<b>43.4949</b>

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Junior College (2yr)	0.367523	3.9600e-003	0.0360	0.0303	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003			43.2380	43.2380	8.3000e-004	7.9000e-004	43.4949
<b>Total</b>		<b>3.9600e-003</b>	<b>0.0360</b>	<b>0.0303</b>	<b>2.2000e-004</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>		<b>2.7400e-003</b>	<b>2.7400e-003</b>			<b>43.2380</b>	<b>43.2380</b>	<b>8.3000e-004</b>	<b>7.9000e-004</b>	<b>43.4949</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

Category	lb/day										lb/day			
Mitigated	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	1.9300e-003	1.9300e-003	1.0000e-005	2.0500e-003
Unmitigated	0.1857	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	1.9300e-003	1.9300e-003	1.0000e-005	2.0500e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1744					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000			1.9300e-003	1.9300e-003	1.0000e-005	2.0500e-003
<b>Total</b>	<b>0.1857</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>2.0500e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

El Camino College Fire Academy Phase 2 - South Coast Air Basin, Winter

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

Consumer Products	0.1744					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Landscaping	8.0000e-005	1.0000e-005	9.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9300e-003	1.9300e-003	1.0000e-005	2.0500e-003
<b>Total</b>	<b>0.1857</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9300e-003</b>	<b>1.9300e-003</b>	<b>1.0000e-005</b>	<b>2.0500e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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