

**Appendix A:  
Air Quality, Energy, and Greenhouse Gas Supporting Information**

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# **Attachment A: Air Quality Supporting Information and Modeling Results**

## **Table of Contents**

**CalEEMod Modeling Notes and Assumptions .....1**

**Demolition Summary.....2**

**Construction Emission Summary.....3**

**Operation Emission Summary.....4**

**CalEEMod Output Files .....5**

**Energy Calculations .....42**

## Fairfield Justice Center Development CalEEMod Notes

- Note 1. Land uses and sizes associated with development of the proposed project are drawn from a Request for Information document, provided by the project applicant on September 28, 2021, as well as email correspondence between FCS and Vince Geronimo, Water Resources Market Leader, Water, Mead & Hunt, and Christopher Chandler, Project Manager, Gilbane Building Company, both on February 10, 2022. Land uses utilized in the model represent the following:
- Parking > Other Non-Asphalt Surface > 1.35 x 1000sqft = Proposed Stormwater Improvement Areas.
- Recreational > City Park > 0.51 x Acre = 22,118 square feet of proposed landscaping.
- Parking > Other Non-Asphalt Surface > 19.6 x 1000sqft = Proposed Concrete Pavement.
- Parking > Other Asphalt Surface > 72 x 1000sqft = Proposed Asphalt Pavement.
- Note 2. According to applicant-provided information, project construction is anticipated to occur from April 1, 2022, through February 28, 2023. Although this date of construction has since passed, the construction schedule used in the analysis represents a “worst-case” analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and compliance with more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moved to later years. Thus, this conservative analysis evaluates the worst-case scenario.
- CalEEMod default construction activities and durations were adjusted to reflect applicant-provided information. The construction equipment list was also adjusted in CalEEMod to match the applicant-provided construction equipment list in the Request for Information document provided on September 28, 2021.
- Note 3. According to applicant-provided information, approximately 100 cubic yards of cut material could be exported during grading activities, and 2,100 cubic yards of fill material would be imported.
- Note 4. According to applicant-provided information, approximately 87,300 square feet of pavement would be removed during demolition activities. Therefore, an estimated 3,274 tons of building and paving debris would be removed during demolition activities. Please see the demolition calculations contained in this appendix for more information.
- Note 5. BAAQMD *Basic Construction Mitigation Measures Recommended For All Proposed Projects* was applied to this project. This includes watering exposed areas at minimum twice per day and limiting construction vehicle speeds to 15 miles per hour on unpaved roads.
- Note 6. Vehicle trip generation rates were reduced to zero in the model as the proposed project would not result in any net new vehicle trips beyond what currently exists.

## Project Demolition and Waste Material

Building Demolition Debris Parameters <sup>(1)</sup>			
1	building gsf	10	cf building volume
1	cf building volume	0.25	cf waste volume
1	cf	0.037	cy
1	cy waste volume	0.5	ton waste weight
<b>1</b>	<b>gsf</b>	<b>0.04625</b>	<b>ton waste material</b>

Existing	Description	GSF <sup>(2)</sup>	Height/Depth (ft) <sup>(3)</sup>	Density (lbs/cf) <sup>(4)</sup>	Demolition Weight (pounds)	Demolition Weight (tons)
Buildings	Buildings	0	-	-	-	-
Pavement	Hardscape	87,300	0.5	150	6,547,500	3,273.75
						<b>3,274</b>

Terms:

- cy = cubic yard
- gsf = gross square feet
- cf = cubic feet
- ft = feet
- lbs = pounds

Sources/Notes:

- <sup>(1)</sup> California Air Pollution Control Officers Association (CAPCOA). 2017. Appendix A Calculation Details for CalEEMod. October.
- <sup>(2)</sup> Square footage of existing building and hardscape are drawn from "Project Information" document, based off emails received on February 10th, 2022.  
canopy square footage is drawn from Google Earth aerial imagery estimates.
- <sup>(3)</sup> Pavement Source: DC Construction Services. 2017. How Thick Is Parking Lot Asphalt? Website: <https://dccpaving.com/how-thick-is-parking-lot-asphalt/>. Accessed November 30, 2020.
- <sup>(4)</sup> Pavement Source: SFGate. 2019. How to Calculate Asphalt Weight Per Yard. Website: <https://homeguides.sfgate.com/calculate-asphalt-weight-per-yard-81825.html>. Accessed November 30, 2020.

### Project Construction Emissions

**Construction Emissions (tons)**

Construction Activity	ROG	NO <sub>x</sub>	PM <sub>10</sub> (Exhaust)	PM <sub>2.5</sub> (Exhaust)
<b>Demolition 2022</b>	<b>0.07</b>	<b>0.55</b>	<b>0.03</b>	<b>0.03</b>
on site	0.07	0.52	0.03	0.03
off site	0.00	0.03	0.00	0.00
<b>Site Preparation 2022</b>	<b>0.01</b>	<b>0.08</b>	<b>0.00</b>	<b>0.00</b>
on site	0.01	0.08	0.00	0.00
off site	0.00	0.00	0.00	0.00
<b>Grading 2022</b>	<b>0.04</b>	<b>0.45</b>	<b>0.02</b>	<b>0.02</b>
on site	0.04	0.42	0.02	0.02
off site	0.00	0.02	0.00	0.00
<b>Flood Barrier Construction 2022</b>	<b>0.37</b>	<b>2.91</b>	<b>0.14</b>	<b>0.14</b>
on site	0.36	2.83	0.14	0.14
off site	0.01	0.08	0.00	0.00
<b>Paving/Roadway/Flood Gates 2022</b>	<b>0.11</b>	<b>0.79</b>	<b>0.03</b>	<b>0.03</b>
on site	0.11	0.79	0.03	0.03
off site	0.00	0.00	0.00	0.00
<b>Architectural Features 2022</b>	<b>0.03</b>	<b>0.14</b>	<b>0.01</b>	<b>0.01</b>
on site	0.03	0.14	0.01	0.01
off site	0.00	0.00	0.00	0.00
<b>Architectural Features 2023</b>	<b>0.03</b>	<b>0.13</b>	<b>0.01</b>	<b>0.01</b>
on site	0.03	0.12	0.01	0.01
off site	0.00	0.00	0.00	0.00
<b>On-Site Total</b>	<b>0.64</b>	<b>4.91</b>	<b>0.23</b>	<b>0.23</b>
<b>Off-site Total</b>	<b>0.02</b>	<b>0.13</b>	<b>0.00</b>	<b>0.00</b>
<b>Total</b>	<b>0.66</b>	<b>5.04</b>	<b>0.24</b>	<b>0.23</b>

Note: The application of MM AIR-1 (BAAQMD Dust Control Measures) would reduce the generation of fugitive dust emissions and would not affect ROG, NO<sub>x</sub>, PM<sub>10</sub> Exhaust, or PM<sub>2.5</sub> Exhaust emission estimates. All zeros displayed in the above table represent emission values which are below 0.005 tons per year and have subsequently rounded down. All true zero values are represented with "-".

**Average Daily Construction Emissions**

Metric	ROG	NO <sub>x</sub>	PM <sub>10</sub> (Exhaust)	PM <sub>2.5</sub> (Exhaust)
Total Emissions (tons)	0.66	5.04	0.24	0.23
Total Emissions (lbs)	1,316.44	10,087.28	470.86	458.62
<b>Average Daily Emissions (lbs/workday)</b>	<b>2.42</b>	<b>18.58</b>	<b>0.87</b>	<b>0.84</b>
<i>Significance Thresholds (lbs/day)</i>	<i>54.00</i>	<i>54.00</i>	<i>82.00</i>	<i>54.00</i>

Construction Phase	Workdays
Demolition	65
Site Preparation	65
Grading	65
Building Construction	131
Paving	131
Architectural Coating	86
Net Working Days	543

Mitigation Applied	Mitigation Description
MM AIR-1	BAAQMD Construction Dust Control Measures

Modeling Sources:

File Name: Fairfield Justice Center - Solano-San Francisco County, Annual  
 Timestamp: Date: 2/22/2022 9:49 AM  
 File Name: 2085.0049\_Workbook

## Project Demolition and Waste Material

### Construction GHG Emissions

File Name: Fairfield Justice Center - Solano-San Francisco County, Annual

Timestamp: 2/22/2022 9:49:00 AM

Emissions Source	Construction
	MT CO <sub>2</sub> e
Demolition	115
Site Preparation	14
Grading	74
Flood Barrier Construction	605
Paving/Roadway/Floodgates	177
Architectural Features 2022	27
Architectural Features 2023	26
<b>Total</b>	<b>1,039</b>
Amortized Over 30 Years	35

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**Fairfield Justice Center  
Solano-San Francisco County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	72.00	1000sqft	1.65	72,000.00	0
Other Non-Asphalt Surfaces	1.35	1000sqft	0.03	1,350.00	0
Other Non-Asphalt Surfaces	19.60	1000sqft	0.45	19,600.00	0
City Park	0.51	Acre	0.51	22,118.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	56
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<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 - Note 1

Construction Phase - Note 2

Off-road Equipment - Applicant-provided information, dated February 10, 2022; Construction Equipment Table

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Off-road Equipment - Note 2

Off-road Equipment - Note 2



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

Off-road Equipment - Note 2

Trips and VMT -

On-road Fugitive Dust -

Demolition - Note 4

Grading - Note 3

Architectural Coating -

Vehicle Trips - Note 6

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Road Dust -

Woodstoves -

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Note 5

Operational Off-Road Equipment -

Fleet Mix -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	3.00	65.00
tblConstructionPhase	NumDays	6.00	65.00
tblConstructionPhase	NumDays	220.00	131.00
Appendix A tblConstructionPhase	NumDays	10.00	131.00

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

tblConstructionPhase	NumDays	10.00	86.00
tblGrading	MaterialExported	0.00	100.00
tblGrading	MaterialImported	0.00	2,100.00
tblLandUse	LandUseSquareFeet	22,215.60	22,118.00
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentType		Trenchers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pressure Washers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	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**

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	UsageHours	6.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	7.00	10.00
tblOffRoadEquipment	UsageHours	8.00	10.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	WD_TR	0.78	0.00

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.6324	4.9148	5.5051	0.0117	0.1112	0.2296	0.3408	0.0224	0.2217	0.2441	0.0000	1,005.9783	1,005.9783	0.1830	7.5000e-003	1,012.7883
2023	0.0250 Appendix A	0.1251	0.1707	3.1000e-004	1.6700e-003	6.1900e-003	7.8600e-003	4.4000e-004	6.1900e-003	6.6300e-003	0.0000	26.0503	26.0503	1.3200e-003	4.0000e-005	26.0945

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

Maximum	0.6324	4.9148	5.5051	0.0117	0.1112	0.2296	0.3408	0.0224	0.2217	0.2441	0.0000	1,005.9783	1,005.9783	0.1830	7.5000e-003	1,012.7883
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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	tons/yr										MT/yr					
2022	0.6324	4.9148	5.5051	0.0117	0.0800	0.2296	0.3096	0.0182	0.2217	0.2399	0.0000	1,005.9772	1,005.9772	0.1830	7.5000e-003	1,012.7872
2023	0.0259	0.1251	0.1707	3.1000e-004	1.6700e-003	6.1900e-003	7.8600e-003	4.4000e-004	6.1900e-003	6.6300e-003	0.0000	26.0503	26.0503	1.3200e-003	4.0000e-005	26.0945
<b>Maximum</b>	<b>0.6324</b>	<b>4.9148</b>	<b>5.5051</b>	<b>0.0117</b>	<b>0.0800</b>	<b>0.2296</b>	<b>0.3096</b>	<b>0.0182</b>	<b>0.2217</b>	<b>0.2399</b>	<b>0.0000</b>	<b>1,005.9772</b>	<b>1,005.9772</b>	<b>0.1830</b>	<b>7.5000e-003</b>	<b>1,012.7872</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
Appendix A																

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**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	27.62	0.00	8.94	18.44	0.00	1.68	0.00	0.00	0.00	0.00	0.00	0.00
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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2022	6-30-2022	1.3735	1.3735
2	7-1-2022	9-30-2022	2.4515	2.4515
3	10-1-2022	12-31-2022	1.7127	1.7127
4	1-1-2023	3-31-2023	0.1516	0.1516
		Highest	2.4515	2.4515

**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	8.2400e-003	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6700e-003	1.6700e-003	0.0000	0.0000	1.7800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	8.1200e-003	0.0000	8.1200e-003	4.8000e-004	0.0000	0.0201
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.1968	0.1968	3.0000e-005	0.0000	0.1987
<b>Total</b>	<b>8.2400e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-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>0.0000</b>	<b>8.1200e-003</b>	<b>0.1985</b>	<b>0.2066</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>0.2206</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 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	8.2400e-003	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6700e-003	1.6700e-003	0.0000	0.0000	1.7800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	8.1200e-003	0.0000	8.1200e-003	4.8000e-004	0.0000	0.0201
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.1968	0.1968	3.0000e-005	0.0000	0.1987
<b>Total</b>	<b>8.2400e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-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>0.0000</b>	<b>8.1200e-003</b>	<b>0.1985</b>	<b>0.2066</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>0.2206</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>

**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	4/1/2022	6/30/2022	5	65	
2	Site Preparation	Site Preparation	5/1/2022	7/29/2022	5	65	
3	Appendix A Grading	Grading	6/1/2022	8/30/2022	5	65	

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

4	Flood Barrier Construction	Building Construction	6/1/2022	11/30/2022	5	131
5	Paving/Roadway/Flood Gates	Paving	7/1/2022	12/31/2022	5	131
6	Architectural Features	Architectural Coating	11/1/2022	2/28/2023	5	86

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

**Acres of Grading (Grading Phase): 40.63**

**Acres of Paving: 2.13**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2; Non-Residential Outdoor: 1; Striped Parking Area: 5,577 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	10.00	81	0.73
Demolition	Crushing/Proc. Equipment	1	10.00	85	0.78
Demolition	Dumpers/Tenders	1	10.00	16	0.38
Demolition	Excavators	1	10.00	158	0.38
Demolition	Generator Sets	1	10.00	84	0.74
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Signal Boards	1	10.00	6	0.82
Site Preparation	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Grading	Excavators	1	10.00	158	0.38
Grading	Graders	1	10.00	187	0.41
Grading	Rollers	1	10.00	80	0.38
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	10.00	97	0.37
Flood Barrier Construction	Air Compressors	2	10.00	78	0.48

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

Flood Barrier Construction	Cranes	0	8.00	231	0.29
Flood Barrier Construction	Forklifts	0	7.00	89	0.20
Flood Barrier Construction	Generator Sets	3	10.00	84	0.74
Flood Barrier Construction	Off-Highway Trucks	2	10.00	402	0.38
Flood Barrier Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Flood Barrier Construction	Welders	2	10.00	46	0.45
Paving/Roadway/Flood Gates	Cement and Mortar Mixers	0	8.00	9	0.56
Paving/Roadway/Flood Gates	Pavers	0	8.00	130	0.42
Paving/Roadway/Flood Gates	Paving Equipment	1	10.00	132	0.36
Paving/Roadway/Flood Gates	Rollers	0	8.00	80	0.38
Paving/Roadway/Flood Gates	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Features	Air Compressors	1	10.00	78	0.48
Flood Barrier Construction	Plate Compactors	2	10.00	8	0.43
Flood Barrier Construction	Pressure Washers	1	10.00	13	0.30
Flood Barrier Construction	Trenchers	1	10.00	78	0.50
Flood Barrier Construction	Skid Steer Loaders	1	10.00	65	0.37
Flood Barrier Construction	Pumps	2	10.00	84	0.74
Paving/Roadway/Flood Gates	Off-Highway Trucks	1	10.00	402	0.38
Paving/Roadway/Flood Gates	Skid Steer Loaders	1	10.00	65	0.37
Paving/Roadway/Flood Gates	Welders	2	10.00	46	0.45
Architectural Features	Generator Sets	1	10.00	84	0.74
Architectural Features	Pressure Washers	1	10.00	13	0.30

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	324.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Appendix A	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT



Fairfield Justice Center - Solano-San Francisco County, Annual

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

Grading	4	10.00	0.00	275.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Flood Barrier Construction	16	48.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving/Roadway/Flood Gates	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Features	3	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 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					0.0350	0.0000	0.0350	5.3000e-003	0.0000	5.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.5229	0.7075	1.1700e-003		0.0272	0.0272		0.0267	0.0267	0.0000	101.0703	101.0703	0.0137	0.0000	101.4120
<b>Total</b>	<b>0.0653</b>	<b>0.5229</b>	<b>0.7075</b>	<b>1.1700e-003</b>	<b>0.0350</b>	<b>0.0272</b>	<b>0.0623</b>	<b>5.3000e-003</b>	<b>0.0267</b>	<b>0.0320</b>	<b>0.0000</b>	<b>101.0703</b>	<b>101.0703</b>	<b>0.0137</b>	<b>0.0000</b>	<b>101.4120</b>

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.6000e-004	0.0253	5.1700e-003	1.0000e-004	2.7600e-003	2.5000e-004	3.0000e-003	7.6000e-004	2.4000e-004	9.9000e-004	0.0000	9.6502	9.6502	6.0000e-005	1.5200e-003	10.1040
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0400e-003	0.0117	4.0000e-005	3.8700e-003	2.0000e-005	3.8900e-003	1.0300e-003	2.0000e-005	1.0500e-003	0.0000	3.2281	3.2281	1.0000e-004	9.0000e-005	3.2589
<b>Total</b>	<b>2.1100e-003</b>	<b>0.0264</b>	<b>0.0169</b>	<b>1.4000e-004</b>	<b>6.6300e-003</b>	<b>2.7000e-004</b>	<b>6.8900e-003</b>	<b>1.7900e-003</b>	<b>2.6000e-004</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>12.8783</b>	<b>12.8783</b>	<b>1.6000e-004</b>	<b>1.6100e-003</b>	<b>13.3629</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					0.0158	0.0000	0.0158	2.3900e-003	0.0000	2.3900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0653	0.5229	0.7075	1.1700e-003		0.0272	0.0272		0.0267	0.0267	0.0000	101.0702	101.0702	0.0137	0.0000	101.4119
<b>Total</b>	<b>0.0653</b>	<b>0.5229</b>	<b>0.7075</b>	<b>1.1700e-003</b>	<b>0.0158</b>	<b>0.0272</b>	<b>0.0430</b>	<b>2.3900e-003</b>	<b>0.0267</b>	<b>0.0291</b>	<b>0.0000</b>	<b>101.0702</b>	<b>101.0702</b>	<b>0.0137</b>	<b>0.0000</b>	<b>101.4119</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

**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	6.6000e-004	0.0253	5.1700e-003	1.0000e-004	2.7600e-003	2.5000e-004	3.0000e-003	7.6000e-004	2.4000e-004	9.9000e-004	0.0000	9.6502	9.6502	6.0000e-005	1.5200e-003	10.1040
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0400e-003	0.0117	4.0000e-005	3.8700e-003	2.0000e-005	3.8900e-003	1.0300e-003	2.0000e-005	1.0500e-003	0.0000	3.2281	3.2281	1.0000e-004	9.0000e-005	3.2589
<b>Total</b>	<b>2.1100e-003</b>	<b>0.0264</b>	<b>0.0169</b>	<b>1.4000e-004</b>	<b>6.6300e-003</b>	<b>2.7000e-004</b>	<b>6.8900e-003</b>	<b>1.7900e-003</b>	<b>2.6000e-004</b>	<b>2.0400e-003</b>	<b>0.0000</b>	<b>12.8783</b>	<b>12.8783</b>	<b>1.6000e-004</b>	<b>1.6100e-003</b>	<b>13.3629</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					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	9.0200e-003	0.0827	0.1032	1.5000e-004		4.2300e-003	4.2300e-003		3.9400e-003	3.9400e-003	0.0000	12.9194	12.9194	3.7800e-003	0.0000	13.0139
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0827</b>	<b>0.1032</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>4.2300e-003</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>3.9400e-003</b>	<b>3.9400e-003</b>	<b>0.0000</b>	<b>12.9194</b>	<b>12.9194</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>13.0139</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.5000e-004	3.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0760	1.0760	3.0000e-005	3.0000e-005	1.0863
<b>Total</b>	<b>4.8000e-004</b>	<b>3.5000e-004</b>	<b>3.9000e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0760</b>	<b>1.0760</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0863</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	9.0200e-003	0.0827	0.1032	1.5000e-004		4.2300e-003	4.2300e-003		3.9400e-003	3.9400e-003	0.0000	12.9194	12.9194	3.7800e-003	0.0000	13.0139
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0827</b>	<b>0.1032</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>4.2300e-003</b>	<b>4.2300e-003</b>	<b>0.0000</b>	<b>3.9400e-003</b>	<b>3.9400e-003</b>	<b>0.0000</b>	<b>12.9194</b>	<b>12.9194</b>	<b>3.7800e-003</b>	<b>0.0000</b>	<b>13.0139</b>

Fairfield Justice Center - Solano-San Francisco County, Annual

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.8000e-004	3.5000e-004	3.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0760	1.0760	3.0000e-005	3.0000e-005	1.0863
<b>Total</b>	<b>4.8000e-004</b>	<b>3.5000e-004</b>	<b>3.9000e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0760</b>	<b>1.0760</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0863</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					0.0217	0.0000	0.0217	2.3500e-003	0.0000	2.3500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.4240	0.3687	7.1000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	62.5285	62.5285	0.0202	0.0000	63.0341
<b>Total</b>	<b>0.0385</b>	<b>0.4240</b>	<b>0.3687</b>	<b>7.1000e-004</b>	<b>0.0217</b>	<b>0.0180</b>	<b>0.0397</b>	<b>2.3500e-003</b>	<b>0.0166</b>	<b>0.0189</b>	<b>0.0000</b>	<b>62.5285</b>	<b>62.5285</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.0341</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.6000e-004	0.0215	4.3900e-003	9.0000e-005	2.3400e-003	2.1000e-004	2.5500e-003	6.4000e-004	2.0000e-004	8.4000e-004	0.0000	8.1907	8.1907	5.0000e-005	1.2900e-003	8.5759
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	6.9000e-004	7.7900e-003	2.0000e-005	2.5800e-003	1.0000e-005	2.5900e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	2.1521	2.1521	7.0000e-005	6.0000e-005	2.1726
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0222</b>	<b>0.0122</b>	<b>1.1000e-004</b>	<b>4.9200e-003</b>	<b>2.2000e-004</b>	<b>5.1400e-003</b>	<b>1.3300e-003</b>	<b>2.1000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>10.3428</b>	<b>10.3428</b>	<b>1.2000e-004</b>	<b>1.3500e-003</b>	<b>10.7485</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					9.7500e-003	0.0000	9.7500e-003	1.0600e-003	0.0000	1.0600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0385	0.4240	0.3687	7.1000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	62.5284	62.5284	0.0202	0.0000	63.0340
<b>Total</b>	<b>0.0385</b>	<b>0.4240</b>	<b>0.3687</b>	<b>7.1000e-004</b>	<b>9.7500e-003</b>	<b>0.0180</b>	<b>0.0277</b>	<b>1.0600e-003</b>	<b>0.0166</b>	<b>0.0176</b>	<b>0.0000</b>	<b>62.5284</b>	<b>62.5284</b>	<b>0.0202</b>	<b>0.0000</b>	<b>63.0340</b>

Fairfield Justice Center - Solano-San Francisco County, Annual

**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	5.6000e-004	0.0215	4.3900e-003	9.0000e-005	2.3400e-003	2.1000e-004	2.5500e-003	6.4000e-004	2.0000e-004	8.4000e-004	0.0000	8.1907	8.1907	5.0000e-005	1.2900e-003	8.5759
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	6.9000e-004	7.7900e-003	2.0000e-005	2.5800e-003	1.0000e-005	2.5900e-003	6.9000e-004	1.0000e-005	7.0000e-004	0.0000	2.1521	2.1521	7.0000e-005	6.0000e-005	2.1726
<b>Total</b>	<b>1.5300e-003</b>	<b>0.0222</b>	<b>0.0122</b>	<b>1.1000e-004</b>	<b>4.9200e-003</b>	<b>2.2000e-004</b>	<b>5.1400e-003</b>	<b>1.3300e-003</b>	<b>2.1000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>10.3428</b>	<b>10.3428</b>	<b>1.2000e-004</b>	<b>1.3500e-003</b>	<b>10.7485</b>

**3.5 Flood Barrier Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3609	2.8294	3.1189	6.4900e-003		0.1390	0.1390		0.1353	0.1353	0.0000	555.1993	555.1993	0.0936	0.0000	557.5390
<b>Total</b>	<b>0.3609</b>	<b>2.8294</b>	<b>3.1189</b>	<b>6.4900e-003</b>		<b>0.1390</b>	<b>0.1390</b>		<b>0.1353</b>	<b>0.1353</b>	<b>0.0000</b>	<b>555.1993</b>	<b>555.1993</b>	<b>0.0936</b>	<b>0.0000</b>	<b>557.5390</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0300e-003	0.0697	0.0230	2.7000e-004	8.2100e-003	8.1000e-004	9.0200e-003	2.3700e-003	7.8000e-004	3.1500e-003	0.0000	25.7526	25.7526	2.0000e-004	3.6900e-003	26.8567
Worker	9.3800e-003	6.7200e-003	0.0754	2.3000e-004	0.0250	1.4000e-004	0.0251	6.6400e-003	1.3000e-004	6.7700e-003	0.0000	20.8186	20.8186	6.7000e-004	6.1000e-004	21.0175
<b>Total</b>	<b>0.0124</b>	<b>0.0764</b>	<b>0.0984</b>	<b>5.0000e-004</b>	<b>0.0332</b>	<b>9.5000e-004</b>	<b>0.0341</b>	<b>9.0100e-003</b>	<b>9.1000e-004</b>	<b>9.9200e-003</b>	<b>0.0000</b>	<b>46.5712</b>	<b>46.5712</b>	<b>8.7000e-004</b>	<b>4.3000e-003</b>	<b>47.8742</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	0.3609	2.8294	3.1189	6.4900e-003		0.1390	0.1390		0.1353	0.1353	0.0000	555.1986	555.1986	0.0936	0.0000	557.5384
<b>Total</b>	<b>0.3609</b>	<b>2.8294</b>	<b>3.1189</b>	<b>6.4900e-003</b>		<b>0.1390</b>	<b>0.1390</b>		<b>0.1353</b>	<b>0.1353</b>	<b>0.0000</b>	<b>555.1986</b>	<b>555.1986</b>	<b>0.0936</b>	<b>0.0000</b>	<b>557.5384</b>



## Fairfield Justice Center - Solano-San Francisco County, Annual

**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	3.0300e-003	0.0697	0.0230	2.7000e-004	8.2100e-003	8.1000e-004	9.0200e-003	2.3700e-003	7.8000e-004	3.1500e-003	0.0000	25.7526	25.7526	2.0000e-004	3.6900e-003	26.8567
Worker	9.3800e-003	6.7200e-003	0.0754	2.3000e-004	0.0250	1.4000e-004	0.0251	6.6400e-003	1.3000e-004	6.7700e-003	0.0000	20.8186	20.8186	6.7000e-004	6.1000e-004	21.0175
<b>Total</b>	<b>0.0124</b>	<b>0.0764</b>	<b>0.0984</b>	<b>5.0000e-004</b>	<b>0.0332</b>	<b>9.5000e-004</b>	<b>0.0341</b>	<b>9.0100e-003</b>	<b>9.1000e-004</b>	<b>9.9200e-003</b>	<b>0.0000</b>	<b>46.5712</b>	<b>46.5712</b>	<b>8.7000e-004</b>	<b>4.3000e-003</b>	<b>47.8742</b>

**3.6 Paving/Roadway/Flood Gates - 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	0.1091	0.7878	0.8756	2.0100e-003		0.0322	0.0322		0.0305	0.0305	0.0000	170.4170	170.4170	0.0488	0.0000	171.6379
Paving	2.1600e-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>0.1112</b>	<b>0.7878</b>	<b>0.8756</b>	<b>2.0100e-003</b>		<b>0.0322</b>	<b>0.0322</b>		<b>0.0305</b>	<b>0.0305</b>	<b>0.0000</b>	<b>170.4170</b>	<b>170.4170</b>	<b>0.0488</b>	<b>0.0000</b>	<b>171.6379</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5400e-003	1.8200e-003	0.0204	6.0000e-005	6.7600e-003	4.0000e-005	6.8000e-003	1.8000e-003	3.0000e-005	1.8300e-003	0.0000	5.6384	5.6384	1.8000e-004	1.7000e-004	5.6923
<b>Total</b>	<b>2.5400e-003</b>	<b>1.8200e-003</b>	<b>0.0204</b>	<b>6.0000e-005</b>	<b>6.7600e-003</b>	<b>4.0000e-005</b>	<b>6.8000e-003</b>	<b>1.8000e-003</b>	<b>3.0000e-005</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>5.6384</b>	<b>5.6384</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>5.6923</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	0.1091	0.7878	0.8756	2.0100e-003		0.0322	0.0322		0.0305	0.0305	0.0000	170.4168	170.4168	0.0488	0.0000	171.6377
Paving	2.1600e-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>0.1112</b>	<b>0.7878</b>	<b>0.8756</b>	<b>2.0100e-003</b>		<b>0.0322</b>	<b>0.0322</b>		<b>0.0305</b>	<b>0.0305</b>	<b>0.0000</b>	<b>170.4168</b>	<b>170.4168</b>	<b>0.0488</b>	<b>0.0000</b>	<b>171.6377</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

**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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5400e-003	1.8200e-003	0.0204	6.0000e-005	6.7600e-003	4.0000e-005	6.8000e-003	1.8000e-003	3.0000e-005	1.8300e-003	0.0000	5.6384	5.6384	1.8000e-004	1.7000e-004	5.6923
<b>Total</b>	<b>2.5400e-003</b>	<b>1.8200e-003</b>	<b>0.0204</b>	<b>6.0000e-005</b>	<b>6.7600e-003</b>	<b>4.0000e-005</b>	<b>6.8000e-003</b>	<b>1.8000e-003</b>	<b>3.0000e-005</b>	<b>1.8300e-003</b>	<b>0.0000</b>	<b>5.6384</b>	<b>5.6384</b>	<b>1.8000e-004</b>	<b>1.7000e-004</b>	<b>5.6923</b>

**3.7 Architectural Features - 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	9.9200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1405	0.1742	3.0000e-004		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	25.8803	25.8803	1.4400e-003	0.0000	25.9164
<b>Total</b>	<b>0.0277</b>	<b>0.1405</b>	<b>0.1742</b>	<b>3.0000e-004</b>		<b>7.4000e-003</b>	<b>7.4000e-003</b>		<b>7.4000e-003</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>25.8803</b>	<b>25.8803</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>25.9164</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.6000e-004	4.7000e-004	5.2700e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7600e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4568	1.4568	5.0000e-005	4.0000e-005	1.4707
<b>Total</b>	<b>6.6000e-004</b>	<b>4.7000e-004</b>	<b>5.2700e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7600e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4568</b>	<b>1.4568</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4707</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	9.9200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1405	0.1742	3.0000e-004		7.4000e-003	7.4000e-003		7.4000e-003	7.4000e-003	0.0000	25.8803	25.8803	1.4400e-003	0.0000	25.9164
<b>Total</b>	<b>0.0277</b>	<b>0.1405</b>	<b>0.1742</b>	<b>3.0000e-004</b>		<b>7.4000e-003</b>	<b>7.4000e-003</b>		<b>7.4000e-003</b>	<b>7.4000e-003</b>	<b>0.0000</b>	<b>25.8803</b>	<b>25.8803</b>	<b>1.4400e-003</b>	<b>0.0000</b>	<b>25.9164</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

**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	0.0000	0.0000	0.0000	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	6.6000e-004	4.7000e-004	5.2700e-003	2.0000e-005	1.7500e-003	1.0000e-005	1.7600e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.4568	1.4568	5.0000e-005	4.0000e-005	1.4707
<b>Total</b>	<b>6.6000e-004</b>	<b>4.7000e-004</b>	<b>5.2700e-003</b>	<b>2.0000e-005</b>	<b>1.7500e-003</b>	<b>1.0000e-005</b>	<b>1.7600e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.4568</b>	<b>1.4568</b>	<b>5.0000e-005</b>	<b>4.0000e-005</b>	<b>1.4707</b>

**3.7 Architectural Features - 2023****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	9.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1247	0.1660	2.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	24.7040	24.7040	1.2800e-003	0.0000	24.7359
<b>Total</b>	<b>0.0253</b>	<b>0.1247</b>	<b>0.1660</b>	<b>2.9000e-004</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>24.7040</b>	<b>24.7040</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>24.7359</b>

## Fairfield Justice Center - Solano-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.0000e-004	4.6400e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3463	1.3463	4.0000e-005	4.0000e-005	1.3586
<b>Total</b>	<b>5.8000e-004</b>	<b>4.0000e-004</b>	<b>4.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>1.0000e-005</b>	<b>1.6800e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3463</b>	<b>1.3463</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3586</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	9.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1247	0.1660	2.9000e-004		6.1800e-003	6.1800e-003		6.1800e-003	6.1800e-003	0.0000	24.7039	24.7039	1.2800e-003	0.0000	24.7359
<b>Total</b>	<b>0.0253</b>	<b>0.1247</b>	<b>0.1660</b>	<b>2.9000e-004</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>		<b>6.1800e-003</b>	<b>6.1800e-003</b>	<b>0.0000</b>	<b>24.7039</b>	<b>24.7039</b>	<b>1.2800e-003</b>	<b>0.0000</b>	<b>24.7359</b>

Fairfield Justice Center - Solano-San Francisco County, Annual

**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	0.0000	0.0000	0.0000	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	5.8000e-004	4.0000e-004	4.6400e-003	1.0000e-005	1.6700e-003	1.0000e-005	1.6800e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3463	1.3463	4.0000e-005	4.0000e-005	1.3586
<b>Total</b>	<b>5.8000e-004</b>	<b>4.0000e-004</b>	<b>4.6400e-003</b>	<b>1.0000e-005</b>	<b>1.6700e-003</b>	<b>1.0000e-005</b>	<b>1.6800e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.3463</b>	<b>1.3463</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3586</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

Fairfield Justice Center - Solano-San Francisco County, Annual

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

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
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**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix** Appendix A



Fairfield Justice Center - Solano-San Francisco County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Other Asphalt Surfaces	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819
Other Non-Asphalt Surfaces	0.554526	0.053831	0.165930	0.132086	0.027621	0.006783	0.007681	0.014870	0.000982	0.000404	0.029673	0.000793	0.004819

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<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>

## Fairfield Justice Center - Solano-San Francisco County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**Mitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	tons/yr										MT/yr					
Mitigated	8.2400e-003	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6700e-003	1.6700e-003	0.0000	0.0000	1.7800e-003
Unmitigated	8.2400e-003	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6700e-003	1.6700e-003	0.0000	0.0000	1.7800e-003

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6700e-003	1.6700e-003	0.0000	0.0000	1.7800e-003
<b>Total</b>	<b>8.2400e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-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>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7800e-003</b>

Fairfield Justice Center - Solano-San Francisco County, 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	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	6.2200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6700e-003	1.6700e-003	0.0000	0.0000	1.7800e-003
<b>Total</b>	<b>8.2400e-003</b>	<b>1.0000e-005</b>	<b>8.6000e-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>1.6700e-003</b>	<b>1.6700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7800e-003</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		0.1968	3.0000e-005	0.0000	0.1987
Unmitigated		0.1968	3.0000e-005	0.0000	0.1987

## Fairfield Justice Center - Solano-San Francisco County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied****7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
City Park	0 / 0.607655		0.1968	3.0000e-005	0.0000	0.1987
Other Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.1968</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1987</b>



Fairfield Justice Center - Solano-San Francisco County, Annual

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

**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
City Park	0 / 0.607655		0.1968	3.0000e-005	0.0000	0.1987
Other Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>0.1968</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1987</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		8.1200e-003	4.8000e-004	0.0000	0.0201
Unmitigated		8.1200e-003	4.8000e-004	0.0000	0.0201

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
City Park	0.04		8.1200e-003	4.8000e-004	0.0000	0.0201
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>8.1200e-003</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>0.0201</b>

Fairfield Justice Center - Solano-San Francisco County, Annual

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

**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
City Park	0.04		8.1200e-003	4.8000e-004	0.0000	0.0201
Other Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
<b>Total</b>			<b>8.1200e-003</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>0.0201</b>

**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**

Appendix A Equipment Type	Number
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**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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**Solano Justice Center Project Construction Assumptions**

**Summary of Energy Use During Construction**

(Annually)

Construction vehicle fuel	16,487 gallons (gasoline, diesel)
Construction equipment fuel	95,064 gallons (diesel)
Total construction fuel	111,551 gallons (gasoline, diesel)
Construction office electricity	15,072 kilowatt hours

**Construction Vehicle Fuel Calculations**

California Air Resource Board (ARB). 2022. EMFAC2017 Web Database. Website: <https://arb.ca.gov/emfac/emissions-inventory/5965f490d11c4b67cf8e5b0312d3823b26107197>

VMT = Vehicle Miles Traveled  
FE = Fuel Economy

Source: EMFAC2017 (v1.0.3) Emissions Inventory

Region Type: County

Region: Solano

Calendar Year: 2022

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption	Calculations	
										(mi/day)	(1000 gallons/day)
SOLANO	2022	HHDT	Aggregate	Aggregate	Gasoline	2.381862	358.0280168	47.6563	0.090221	3.968329999	1420.77332
SOLANO	2022	HHDT	Aggregate	Aggregate	Diesel	5183.3324	723567.7462	59657.73	108.2557	6.683875206	4836236.518
SOLANO	2022	LDA	Aggregate	Aggregate	Gasoline	188325.11	7605495.047	881615.3	246.6443	30.83588845	234522196.8
SOLANO	2022	LDA	Aggregate	Aggregate	Diesel	1895.8472	79317.08511	8919.848	1.689691	46.94178284	3723285.385
SOLANO	2022	LDT1	Aggregate	Aggregate	Gasoline	18876.951	663926.2943	85809.17	25.27069	26.27258716	17443061.44
SOLANO	2022	LDT1	Aggregate	Aggregate	Diesel	13.697404	287.8818455	51.25759	0.013013	22.12290596	6368.782994
SOLANO	2022	LDT2	Aggregate	Aggregate	Gasoline	57824.197	2120752.32	267923.5	87.27167	24.30058128	51535514.13
SOLANO	2022	LDT2	Aggregate	Aggregate	Diesel	318.0264	13606.08851	1555.61	0.386758	35.17985749	478660.2549
SOLANO	2022	LHDT1	Aggregate	Aggregate	Gasoline	4948.7108	170974.7464	73728.42	20.45516	8.35851561	1423095.086
SOLANO	2022	LHDT1	Aggregate	Aggregate	Diesel	5064.261	178875.9755	63702.03	10.00519	17.87831327	3198000.727
SOLANO	2022	LHDT2	Aggregate	Aggregate	Gasoline	656.35797	23473.63711	9778.756	3.200619	7.334093949	171257.8599
SOLANO	2022	LHDT2	Aggregate	Aggregate	Diesel	1753.2912	64454.63944	22054.2	4.039824	15.95481515	1028361.858
SOLANO	2022	MHDT	Aggregate	Aggregate	Gasoline	409.37116	26538.45763	8190.698	5.457465	4.862780862	129050.7039
SOLANO	2022	MHDT	Aggregate	Aggregate	Diesel	2423.3061	138300.0936	22977	14.89595	9.284406977	1284034.354

**Worker**  
Sum of VMT\*FE (Column BI) 307709086.8  
Total VMT 10483384.72  
Weighted Average FE 29.35207427

**Vendor**  
Sum of VMT\*FE (Column BI) 12078357.88  
Total VMT 1326543.324  
Weighted Average FE 9.105136361

**Solano Justice Center Project Construction Assumption**

CalEEMod output file: Scenario 2 Non Residential Construction - Contra Costa County, Annual  
Time stamp: Date: 12/29/2021 3:12 PM

**Haul**  
Sum of VMT\*FE (Column BI) 4837657.292  
Total VMT 723925.7742  
Weighted Average FE 6.682532193

Construction Schedule	Phase Name	Phase Type	Start Date	End Date	Num Days	
					Week	Num Days
	Demolition	Demolition	4/1/2022	6/30/2022	5	65
	Site Preparation	Site Preparation	5/1/2022	7/29/2022	5	65
	Grading	Grading	6/1/2022	8/30/2022	5	65
	Flood Barrier Construction	Building Construction	6/1/2022	11/30/2022	5	131
	Paving/Roadway/Flood Gates	Paving	7/1/2022	12/31/2022	5	131
	Architectural Features	Architectural Coating	11/1/2022	2/28/2023	5	86

Trips and VMT	Phase Name	Trips per Day			Total Trips			Trips per Phase			VMT per Phase			Fuel Consumption (gallons)				
		Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips		
	Demolition	15	0	324	10.8	7.3	20	HDT_Mix	65	975	0	324	10,530	0	6,480	358.75	0.00	969.69
	Site Preparation	5	0	0	10.8	7.3	20	HDT_Mix	65	325	0	0	3,510	0	0	119.58	0.00	0.00
	Grading	10	0	275	10.8	7.3	232	HDT_Mix	65	650	0	275	7,020	0	63,800	239.17	0.00	9,547.28
	Flood Barrier Construction	48	19	0	10.8	7.3	20	HDT_Mix	131	6,288	2,489	0	67,910	18,170	0	2,313.65	1,995.54	0.00
	Paving/Roadway/Flood Gates	13	0	0	10.8	7.3	20	HDT_Mix	131	1,703	0	0	18,392	0	0	626.61	0.00	0.00
	Architectural Features	10	0	0	10.8	7.3	20	HDT_Mix	86	860	0	0	9,288	0	0	316.43	0.00	0.00
	Total Construction VMT (miles)																	
	<b>205,101</b>																	
	Total Fuel Consumption (gallons)																	
	<b>16,487</b>																	

**Solano Justice Center Project Construction Assumptions**

CalEEMod output file: Scenario 2 Non Residential Construction - Contra Costa County, Annual

Time stamp: Date: 12/29/2021 3:12 PM

Construction Schedule	Phase Name	Phase Type	Start Date	End Date	Week	Num Days					
	Demolition	Demolition	4/1/2022	6/30/2022		5	65				
	Site Preparation	Site Preparation	5/1/2022	7/29/2022		5	65				
	Grading	Grading	6/1/2022	8/30/2022		5	65				
	Flood Barrier Construction	Building Construction	6/1/2022	11/30/2022		5	131				
	Paving/Roadway/Flood Gates	Paving	7/1/2022	12/31/2022		5	131				
	Architectural Features	Architectural Coating	11/1/2022	2/28/2023		5	86				
Construction Equipment	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Diesel Fuel Usage		
	Demolition	Concrete/Industrial Saws	1	10	81	0.73	65	38,434.50	1,921.73		
	Demolition	Crushing Proc. Equipment	1	10	85	0.78	65	43,095.00	2,154.75		
	Demolition	Dumpers/Tenders	1	10	16	0.38	65	3,952.00	197.60		
	Demolition	Generator Sets	1	10	84	0.74	65	40,404.00	2,020.20		
	Demolition	Excavators	1	10	158	0.38	65	39,026.00	1,951.30		
	Demolition	Tractors/Loaders/Backhoes	1	10	97	0.37	65	23,328.50	1,166.43		
	Site Preparation	Signal Boards	1	10	247	0.4	65	64,220.00	3,211.00		
	Site Preparation	Tractors/Loaders/Backhoes	1	10	97	0.37	65	23,328.50	1,166.43		
	Grading	Excavators	1	10	158	0.38	65	39,026.00	1,951.30		
	Grading	Graders	1	10	187	0.41	65	49,835.50	2,491.78		
	Grading	Rollers	1	10	80	0.38	65	19,760.00	988.00		
	Grading	Tractors/Loaders/Backhoes	1	10	97	0.37	65	23,328.50	1,166.43		
	Flood Barrier Construction	Air Compressors	2	10	78	0.48	131	98,092.80	4,904.64		
	Flood Barrier Construction	Generator Sets	3	10	84	0.74	131	244,288.80	12,214.44		
	Flood Barrier Construction	Off-Highway Trucks	2	10	402	0.38	131	400,231.20	20,011.56		
	Flood Barrier Construction	Welders	2	10	46	0.45	131	54,234.00	2,711.70		
	Flood Barrier Construction	Plate Compactors	2	10	8	0.43	131	9,012.80	450.64		
	Flood Barrier Construction	Pressure Washers	1	10	13	0.3	131	5,109.00	255.45		
	Flood Barrier Construction	Trenchers	1	10	78	0.5	131	51,090.00	2,554.50		
	Flood Barrier Construction	Skid Steer Loaders	1	10	65	0.37	131	31,505.50	1,575.28		
	Flood Barrier Construction	Pumps	2	10	84	0.74	131	162,859.20	8,142.96		
	Paving/Roadway/Flood Gates	Off-Highway Trucks	1	10	402	0.38	131	200,115.60	10,005.78		
	Paving/Roadway/Flood Gates	Paving Equipment	1	10	132	0.36	131	62,251.20	3,112.56		
	Paving/Roadway/Flood Gates	Skid Steer Loaders	1	10	65	0.37	131	31,505.50	1,575.28		
	Paving/Roadway/Flood Gates	Welders	2	10	46	0.45	131	54,234.00	2,711.70		
	Architectural Features	Generator Sets	1	10	84	0.74	86	53,457.60	2,672.88		
	Architectural Features	Pressure Washers	1	10	13	0.3	86	3,354.00	167.70		
	Architectural Features	Air Compressors	1	10	78	0.48	86	32,198.40	1,609.92		
								<b>Construction Equipment Fuel Consumption</b>	<b>95,063.91 gallons</b>		

Notes:

Equipment assumptions are provided in the CalEEMod output files.

Fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

South Coast Air Quality Management District. 1993. Air Quality Handbook, Table A9-3E.

Website: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>. Accessed October 30, 2020.

**Construction Office Electricity Calculation**

Energy Appendix: CalEEMod Typical Construction Trailer  
 Typical Construction Trailer - Contra Costa County, Annual  
 Date: 1/4/2022 1:22 PM

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12362.4	2.9944	0.0000	0.0000	2.9944
<b>Total</b>		<b>2.9944</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.9944</b>

kWh/yr = kilowatt hours per year

**Energy by Land Use - Electricity**

Annual 12,362 kWh/yr  
**Total Over Construction 15,072 kWh**

Total Construction Schedule

Start 1/1/2024  
 End 3/21/2025  
 Total Calendar Days 445  
 Years 1.22