

## **Appendix 2**

### **Air Quality and Greenhouse Gas Modeling**

## Regional Thresholds

### Construction

Year	ROG	NOx	CO	Sox	PM10	PM2.5
2022	2.08	39.30	16.34	0.12	11.25	5.19
2023	39.25	9.97	14.24	0.02	0.79	0.55
<b>SCAQMD Thresholds (lbs/day)</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Exceed?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

### Operation

Source	ROG	NOx	CO	Sox	PM10	PM2.5
Area	2.76	0.0001	0.012	0.00	<0.001	<0.001
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	<0.001	0.001	0.006	<0.001	0.002	<0.001
Offroad	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.76	0.001	0.02	<0.001	0.002	<0.001
<b>SCAQMD Thresholds (lbs/day)</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
<b>Exceed?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

## Localized Thresholds

Localized significance thresholds (LSTs) only account for on-site emissions of NOx, CO, PM10, and PM2.5. The City of Wildomar is located in Source Receptor Area 25. The project site is 2.83-acres. Therefore, the LSTs for a 2-acre site with receptors approximately 25 meters away was used for this analysis.

Year	NOx	CO	PM10	PM2.5
2022	16.98	10.06	4.00	2.24
2023	8.61	11.68	0.43	0.40
<b>SCAQMD LST Thresholds (lbs/day)</b>	<b>234</b>	<b>1,100</b>	<b>7</b>	<b>4</b>
<b>Exceed?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Note: Emissions include implementation of SCAQMD Rule 403.

## Greenhouse Gas

Source	ROG
Amortized Construction	9.55
Area	>0.001
Energy	218

Mobile	0.19
Offroad	0.00
Waste	77
Water	105
Total	410
<b>SCAQMD Thresholds (lbs/day)</b>	<b>3,000</b>
<b><i>Exceed?</i></b>	<b><i>No</i></b>

Note: Total construction emissions are approximately 286.4 MT CO<sub>2</sub>e/year. Emissions were amortized over a thirty year time frame.

Chiquito BESS - Riverside-South Coast County, Annual

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

**Chiquito BESS**

**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	123.28	1000sqft	2.83	123,275.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<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 - Project site is 2.83 acres

Construction Phase - Nine month construction schedule

Trips and VMT -

Grading -

Vehicle Trips - Project would require at max a 4 person crew for maintenance visits every 2-3 months (about 48 trips per year)

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Off-road equipment includes security lighting; battery unit chillers; and bi-directional inverters.

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Use - BESS so would not require natural gas

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**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
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	10.00	30.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	MaterialExported	0.00	7,940.00
tblLandUse	LandUseSquareFeet	123,280.00	123,275.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	3.93	1.5000e-003

**2.0 Emissions Summary**

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

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1715	1.3889	1.3877	3.0600e-003	0.0868	0.0616	0.1484	0.0276	0.0587	0.0863	0.0000	265.8106	265.8106	0.0384	9.2300e-003	269.5200
2023	0.5813	0.0804	0.1169	1.9000e-004	2.8000e-003	4.1100e-003	6.9200e-003	7.4000e-004	3.8800e-003	4.6200e-003	0.0000	16.8203	16.8203	3.7200e-003	6.0000e-005	16.9302
<b>Maximum</b>	<b>0.5813</b>	<b>1.3889</b>	<b>1.3877</b>	<b>3.0600e-003</b>	<b>0.0868</b>	<b>0.0616</b>	<b>0.1484</b>	<b>0.0276</b>	<b>0.0587</b>	<b>0.0863</b>	<b>0.0000</b>	<b>265.8106</b>	<b>265.8106</b>	<b>0.0384</b>	<b>9.2300e-003</b>	<b>269.5200</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	0.1715	1.3889	1.3877	3.0600e-003	0.0736	0.0616	0.1351	0.0217	0.0587	0.0805	0.0000	265.8104	265.8104	0.0384	9.2300e-003	269.5198
2023	0.5813	0.0804	0.1169	1.9000e-004	2.8000e-003	4.1100e-003	6.9200e-003	7.4000e-004	3.8800e-003	4.6200e-003	0.0000	16.8202	16.8202	3.7200e-003	6.0000e-005	16.9302
<b>Maximum</b>	<b>0.5813</b>	<b>1.3889</b>	<b>1.3877</b>	<b>3.0600e-003</b>	<b>0.0736</b>	<b>0.0616</b>	<b>0.1351</b>	<b>0.0217</b>	<b>0.0587</b>	<b>0.0805</b>	<b>0.0000</b>	<b>265.8104</b>	<b>265.8104</b>	<b>0.0384</b>	<b>9.2300e-003</b>	<b>269.5198</b>

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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
Percent Reduction	0.00	0.00	0.00	0.00	14.81	0.00	8.55	20.64	0.00	6.41	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-2-2022	8-1-2022	0.6446	0.6446
2	8-2-2022	11-1-2022	0.5812	0.5812
3	11-2-2022	2-1-2023	0.5966	0.5966
4	2-2-2023	5-1-2023	0.3823	0.3823
		Highest	0.6446	0.6446

**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	0.5027	1.0000e-005	1.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0600e-003	3.0600e-003	1.0000e-005	0.0000	3.2600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	216.8737	216.8737	0.0183	2.2200e-003	217.9926
Mobile	7.0000e-005	1.3000e-004	8.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1913	0.1913	1.0000e-005	1.0000e-005	0.1943
Offroad	0.0000	0.0000	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	31.0312	0.0000	31.0312	1.8339	0.0000	76.8786
Water						0.0000	0.0000		0.0000	0.0000	9.0444	65.8323	74.8767	0.9345	0.0226	104.9766
<b>Total</b>	<b>0.5028</b>	<b>1.4000e-004</b>	<b>2.4000e-003</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>40.0757</b>	<b>282.9004</b>	<b>322.9761</b>	<b>2.7867</b>	<b>0.0248</b>	<b>400.0452</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**

**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	0.5027	1.0000e-005	1.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0600e-003	3.0600e-003	1.0000e-005	0.0000	3.2600e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	216.8737	216.8737	0.0183	2.2200e-003	217.9926
Mobile	7.0000e-005	1.3000e-004	8.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1913	0.1913	1.0000e-005	1.0000e-005	0.1943
Offroad	0.0000	0.0000	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	31.0312	0.0000	31.0312	1.8339	0.0000	76.8786
Water						0.0000	0.0000		0.0000	0.0000	9.0444	65.8323	74.8767	0.9345	0.0226	104.9766
<b>Total</b>	<b>0.5028</b>	<b>1.4000e-004</b>	<b>2.4000e-003</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>40.0757</b>	<b>282.9004</b>	<b>322.9761</b>	<b>2.7867</b>	<b>0.0248</b>	<b>400.0452</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	Site Preparation	Site Preparation	5/2/2022	5/4/2022	5	3	
2	Grading	Grading	5/5/2022	5/12/2022	5	6	



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

3	Building Construction	Building Construction	5/13/2022	12/8/2022	5	150
4	Paving	Paving	12/9/2022	1/19/2023	5	30
5	Architectural Coating	Architectural Coating	1/18/2023	2/28/2023	5	30

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 184,913; Non-Residential Outdoor: 61,638; Striped Parking Area: 0 (Architectural Coating – sqft)**

**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	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	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
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	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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**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	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	993.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	52.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 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					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0235</b>	<b>0.0151</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.9000e-004</b>	<b>3.2800e-003</b>	<b>2.6000e-004</b>	<b>8.2000e-004</b>	<b>1.0800e-003</b>	<b>0.0000</b>	<b>3.2321</b>	<b>3.2321</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2582</b>

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1036	0.1036	0.0000	0.0000	0.1046
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1036</b>	<b>0.1036</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1046</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					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0700e-003	0.0235	0.0151	4.0000e-005		8.9000e-004	8.9000e-004		8.2000e-004	8.2000e-004	0.0000	3.2321	3.2321	1.0500e-003	0.0000	3.2582
<b>Total</b>	<b>2.0700e-003</b>	<b>0.0235</b>	<b>0.0151</b>	<b>4.0000e-005</b>	<b>1.0700e-003</b>	<b>8.9000e-004</b>	<b>1.9600e-003</b>	<b>1.2000e-004</b>	<b>8.2000e-004</b>	<b>9.4000e-004</b>	<b>0.0000</b>	<b>3.2321</b>	<b>3.2321</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2582</b>

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

**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1036	0.1036	0.0000	0.0000	0.1046
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1036</b>	<b>0.1036</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1046</b>

**3.3 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					0.0218	0.0000	0.0218	0.0104	0.0000	0.0104	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0510</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>0.0218</b>	<b>2.2300e-003</b>	<b>0.0240</b>	<b>0.0104</b>	<b>2.0500e-003</b>	<b>0.0124</b>	<b>0.0000</b>	<b>5.4308</b>	<b>5.4308</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4747</b>

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

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5400e-003	0.0669	0.0143	2.9000e-004	8.5600e-003	7.4000e-004	9.3000e-003	2.3500e-003	7.1000e-004	3.0600e-003	0.0000	27.6353	27.6353	3.7000e-004	4.3500e-003	28.9419
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	1.0000e-004	8.0000e-005	1.0200e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2591	0.2591	1.0000e-005	1.0000e-005	0.2614
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0669</b>	<b>0.0153</b>	<b>2.9000e-004</b>	<b>8.8900e-003</b>	<b>7.4000e-004</b>	<b>9.6300e-003</b>	<b>2.4400e-003</b>	<b>7.1000e-004</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>27.8943</b>	<b>27.8943</b>	<b>3.8000e-004</b>	<b>4.3600e-003</b>	<b>29.2033</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					9.7900e-003	0.0000	9.7900e-003	4.6600e-003	0.0000	4.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
<b>Total</b>	<b>4.6200e-003</b>	<b>0.0510</b>	<b>0.0277</b>	<b>6.0000e-005</b>	<b>9.7900e-003</b>	<b>2.2300e-003</b>	<b>0.0120</b>	<b>4.6600e-003</b>	<b>2.0500e-003</b>	<b>6.7100e-003</b>	<b>0.0000</b>	<b>5.4308</b>	<b>5.4308</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4747</b>

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

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.5400e-003	0.0669	0.0143	2.9000e-004	8.5600e-003	7.4000e-004	9.3000e-003	2.3500e-003	7.1000e-004	3.0600e-003	0.0000	27.6353	27.6353	3.7000e-004	4.3500e-003	28.9419
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	1.0000e-004	8.0000e-005	1.0200e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2591	0.2591	1.0000e-005	1.0000e-005	0.2614
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0669</b>	<b>0.0153</b>	<b>2.9000e-004</b>	<b>8.8900e-003</b>	<b>7.4000e-004</b>	<b>9.6300e-003</b>	<b>2.4400e-003</b>	<b>7.1000e-004</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>27.8943</b>	<b>27.8943</b>	<b>3.8000e-004</b>	<b>4.3600e-003</b>	<b>29.2033</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7601	155.7601	0.0301	0.0000	156.5113
<b>Total</b>	<b>0.1392</b>	<b>1.0953</b>	<b>1.0765</b>	<b>1.8800e-003</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0505</b>	<b>0.0505</b>	<b>0.0000</b>	<b>155.7601</b>	<b>155.7601</b>	<b>0.0301</b>	<b>0.0000</b>	<b>156.5113</b>

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	2.3800e-003	0.0666	0.0224	2.7000e-004	9.4800e-003	9.2000e-004	0.0104	2.7300e-003	8.8000e-004	3.6100e-003	0.0000	26.2676	26.2676	2.8000e-004	3.9000e-003	27.4361
Worker	0.0136	0.0106	0.1327	3.7000e-004	0.0429	2.2000e-004	0.0431	0.0114	2.0000e-004	0.0116	0.0000	33.6777	33.6777	9.0000e-004	9.4000e-004	33.9800
<b>Total</b>	<b>0.0160</b>	<b>0.0772</b>	<b>0.1551</b>	<b>6.4000e-004</b>	<b>0.0524</b>	<b>1.1400e-003</b>	<b>0.0535</b>	<b>0.0141</b>	<b>1.0800e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>59.9454</b>	<b>59.9454</b>	<b>1.1800e-003</b>	<b>4.8400e-003</b>	<b>61.4161</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	0.1392	1.0953	1.0765	1.8800e-003		0.0527	0.0527		0.0505	0.0505	0.0000	155.7599	155.7599	0.0301	0.0000	156.5112
<b>Total</b>	<b>0.1392</b>	<b>1.0953</b>	<b>1.0765</b>	<b>1.8800e-003</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0505</b>	<b>0.0505</b>	<b>0.0000</b>	<b>155.7599</b>	<b>155.7599</b>	<b>0.0301</b>	<b>0.0000</b>	<b>156.5112</b>

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3800e-003	0.0666	0.0224	2.7000e-004	9.4800e-003	9.2000e-004	0.0104	2.7300e-003	8.8000e-004	3.6100e-003	0.0000	26.2676	26.2676	2.8000e-004	3.9000e-003	27.4361
Worker	0.0136	0.0106	0.1327	3.7000e-004	0.0429	2.2000e-004	0.0431	0.0114	2.0000e-004	0.0116	0.0000	33.6777	33.6777	9.0000e-004	9.4000e-004	33.9800
<b>Total</b>	<b>0.0160</b>	<b>0.0772</b>	<b>0.1551</b>	<b>6.4000e-004</b>	<b>0.0524</b>	<b>1.1400e-003</b>	<b>0.0535</b>	<b>0.0141</b>	<b>1.0800e-003</b>	<b>0.0152</b>	<b>0.0000</b>	<b>59.9454</b>	<b>59.9454</b>	<b>1.1800e-003</b>	<b>4.8400e-003</b>	<b>61.4161</b>

**3.5 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	7.5300e-003	0.0747	0.0936	1.4000e-004		3.9000e-003	3.9000e-003		3.6000e-003	3.6000e-003	0.0000	12.4080	12.4080	3.9300e-003	0.0000	12.5063
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>7.5300e-003</b>	<b>0.0747</b>	<b>0.0936</b>	<b>1.4000e-004</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>12.4080</b>	<b>12.4080</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>12.5063</b>



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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.3000e-004	4.0800e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0362	1.0362	3.0000e-005	3.0000e-005	1.0455
<b>Total</b>	<b>4.2000e-004</b>	<b>3.3000e-004</b>	<b>4.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0362</b>	<b>1.0362</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0455</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	7.5300e-003	0.0747	0.0936	1.4000e-004		3.9000e-003	3.9000e-003		3.6000e-003	3.6000e-003	0.0000	12.4080	12.4080	3.9300e-003	0.0000	12.5063
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>7.5300e-003</b>	<b>0.0747</b>	<b>0.0936</b>	<b>1.4000e-004</b>		<b>3.9000e-003</b>	<b>3.9000e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>12.4080</b>	<b>12.4080</b>	<b>3.9300e-003</b>	<b>0.0000</b>	<b>12.5063</b>

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

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.3000e-004	4.0800e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0362	1.0362	3.0000e-005	3.0000e-005	1.0455
<b>Total</b>	<b>4.2000e-004</b>	<b>3.3000e-004</b>	<b>4.0800e-003</b>	<b>1.0000e-005</b>	<b>1.3200e-003</b>	<b>1.0000e-005</b>	<b>1.3300e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.0362</b>	<b>1.0362</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0455</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.1600e-003	0.0603	0.0818	1.2000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	10.8590	10.8590	3.4400e-003	0.0000	10.9450
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>6.1600e-003</b>	<b>0.0603</b>	<b>0.0818</b>	<b>1.2000e-004</b>		<b>3.0400e-003</b>	<b>3.0400e-003</b>		<b>2.8000e-003</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>10.8590</b>	<b>10.8590</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>10.9450</b>

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

**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.5000e-004	3.2900e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8777	0.8777	2.0000e-005	2.0000e-005	0.8851
<b>Total</b>	<b>3.4000e-004</b>	<b>2.5000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.1500e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.8777</b>	<b>0.8777</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8851</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	6.1600e-003	0.0603	0.0818	1.2000e-004		3.0400e-003	3.0400e-003		2.8000e-003	2.8000e-003	0.0000	10.8589	10.8589	3.4400e-003	0.0000	10.9450
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>6.1600e-003</b>	<b>0.0603</b>	<b>0.0818</b>	<b>1.2000e-004</b>		<b>3.0400e-003</b>	<b>3.0400e-003</b>		<b>2.8000e-003</b>	<b>2.8000e-003</b>	<b>0.0000</b>	<b>10.8589</b>	<b>10.8589</b>	<b>3.4400e-003</b>	<b>0.0000</b>	<b>10.9450</b>

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4000e-004	2.5000e-004	3.2900e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.1000e-004	0.0000	0.8777	0.8777	2.0000e-005	2.0000e-005	0.8851
<b>Total</b>	<b>3.4000e-004</b>	<b>2.5000e-004</b>	<b>3.2900e-003</b>	<b>1.0000e-005</b>	<b>1.1500e-003</b>	<b>1.0000e-005</b>	<b>1.1600e-003</b>	<b>3.1000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.8777</b>	<b>0.8777</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8851</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.5714					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
<b>Total</b>	<b>0.5743</b>	<b>0.0195</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>3.8356</b>

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.6000e-004	4.7000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2538	1.2538	3.0000e-005	3.0000e-005	1.2645
<b>Total</b>	<b>4.9000e-004</b>	<b>3.6000e-004</b>	<b>4.7000e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2538</b>	<b>1.2538</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2645</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	0.5714					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8700e-003	0.0195	0.0272	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.8299	3.8299	2.3000e-004	0.0000	3.8356
<b>Total</b>	<b>0.5743</b>	<b>0.0195</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>3.8356</b>

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.6000e-004	4.7000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.2538	1.2538	3.0000e-005	3.0000e-005	1.2645
<b>Total</b>	<b>4.9000e-004</b>	<b>3.6000e-004</b>	<b>4.7000e-003</b>	<b>1.0000e-005</b>	<b>1.6500e-003</b>	<b>1.0000e-005</b>	<b>1.6600e-003</b>	<b>4.4000e-004</b>	<b>1.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>1.2538</b>	<b>1.2538</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.2645</b>

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	7.0000e-005	1.3000e-004	8.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1913	0.1913	1.0000e-005	1.0000e-005	0.1943
Unmitigated	7.0000e-005	1.3000e-004	8.3000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1913	0.1913	1.0000e-005	1.0000e-005	0.1943

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.18	0.00	0.00	585	585
Total	0.18	0.00	0.00	585	585

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
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

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

**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	216.8737	216.8737	0.0183	2.2200e-003	217.9926
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	216.8737	216.8737	0.0183	2.2200e-003	217.9926
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





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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			
General Heavy Industry	1.22289e+006	216.8737	0.0183	2.2200e-003	217.9926
<b>Total</b>		<b>216.8737</b>	<b>0.0183</b>	<b>2.2200e-003</b>	<b>217.9926</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Heavy Industry	1.22289e+006	216.8737	0.0183	2.2200e-003	217.9926
<b>Total</b>		<b>216.8737</b>	<b>0.0183</b>	<b>2.2200e-003</b>	<b>217.9926</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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					
Mitigated	0.5027	1.0000e-005	1.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0600e-003	3.0600e-003	1.0000e-005	0.0000	3.2600e-003
Unmitigated	0.5027	1.0000e-005	1.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0600e-003	3.0600e-003	1.0000e-005	0.0000	3.2600e-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	0.0571					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0600e-003	3.0600e-003	1.0000e-005	0.0000	3.2600e-003
<b>Total</b>	<b>0.5027</b>	<b>1.0000e-005</b>	<b>1.5700e-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>0.0000</b>	<b>3.0600e-003</b>	<b>3.0600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2600e-003</b>

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0571					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4455					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5000e-004	1.0000e-005	1.5700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.0600e-003	3.0600e-003	1.0000e-005	0.0000	3.2600e-003
<b>Total</b>	<b>0.5027</b>	<b>1.0000e-005</b>	<b>1.5700e-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>0.0000</b>	<b>3.0600e-003</b>	<b>3.0600e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	74.8767	0.9345	0.0226	104.9766
Unmitigated	74.8767	0.9345	0.0226	104.9766

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	28.5085 / 0	74.8767	0.9345	0.0226	104.9766
<b>Total</b>		<b>74.8767</b>	<b>0.9345</b>	<b>0.0226</b>	<b>104.9766</b>

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

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Heavy Industry	28.5085 / 0	74.8767	0.9345	0.0226	104.9766
<b>Total</b>		<b>74.8767</b>	<b>0.9345</b>	<b>0.0226</b>	<b>104.9766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.0312	1.8339	0.0000	76.8786
Unmitigated	31.0312	1.8339	0.0000	76.8786

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**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	MT/yr			
General Heavy Industry	152.87	31.0312	1.8339	0.0000	76.8786
<b>Total</b>		<b>31.0312</b>	<b>1.8339</b>	<b>0.0000</b>	<b>76.8786</b>

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Heavy Industry	152.87	31.0312	1.8339	0.0000	76.8786
<b>Total</b>		<b>31.0312</b>	<b>1.8339</b>	<b>0.0000</b>	<b>76.8786</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Other General Industrial Equipment	50	12.00	365	88	0.34	Electrical

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

Other General Industrial Equipment	50	24.00	365	88	0.34	Electrical
Other General Industrial Equipment	50	24.00	365	88	0.34	Electrical

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Other General Industrial Equipment	0.0000	0.0000	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>

**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**



Chiquito BESS - Riverside-South Coast County, Summer

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

**Chiquito BESS**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	123.28	1000sqft	2.83	123,275.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<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 - Project site is 2.83 acres
- Construction Phase - Nine month construction schedule
- Trips and VMT -
- Grading -
- Vehicle Trips - Project would require at max a 4 person crew for maintenance visits every 2-3 months (about 48 trips per year)
- Construction Off-road Equipment Mitigation - SCAQMD Rule 403
- Operational Off-Road Equipment - Off-road equipment includes security lighting; battery unit chillers; and bi-directional inverters.
- Stationary Sources - Emergency Generators and Fire Pumps -
- Energy Use - BESS so would not require natural gas

Chiquito BESS - Riverside-South Coast County, 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
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	10.00	30.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	MaterialExported	0.00	7,940.00
tblLandUse	LandUseSquareFeet	123,280.00	123,275.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	3.93	1.5000e-003

**2.0 Emissions Summary**

Chiquito BESS - Riverside-South Coast County, Summer

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1031	38.1459	16.7175	0.1168	10.2586	0.9885	11.2471	4.2739	0.9185	5.1924	0.0000	12,249.1465	12,249.1465	0.7852	1.6016	12,746.0546
2023	39.2553	9.9692	14.4098	0.0233	0.2794	0.5059	0.7854	0.0741	0.4723	0.5464	0.0000	2,239.8757	2,239.8757	0.5645	5.8700e-003	2,255.7368
<b>Maximum</b>	<b>39.2553</b>	<b>38.1459</b>	<b>16.7175</b>	<b>0.1168</b>	<b>10.2586</b>	<b>0.9885</b>	<b>11.2471</b>	<b>4.2739</b>	<b>0.9185</b>	<b>5.1924</b>	<b>0.0000</b>	<b>12,249.1465</b>	<b>12,249.1465</b>	<b>0.7852</b>	<b>1.6016</b>	<b>12,746.0546</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	2.1031	38.1459	16.7175	0.1168	6.2710	0.9885	7.2595	2.3764	0.9185	3.2948	0.0000	12,249.1465	12,249.1465	0.7852	1.6016	12,746.0546
2023	39.2553	9.9692	14.4098	0.0233	0.2794	0.5059	0.7854	0.0741	0.4723	0.5464	0.0000	2,239.8757	2,239.8757	0.5645	5.8700e-003	2,255.7368
<b>Maximum</b>	<b>39.2553</b>	<b>38.1459</b>	<b>16.7175</b>	<b>0.1168</b>	<b>6.2710</b>	<b>0.9885</b>	<b>7.2595</b>	<b>2.3764</b>	<b>0.9185</b>	<b>3.2948</b>	<b>0.0000</b>	<b>12,249.1465</b>	<b>12,249.1465</b>	<b>0.7852</b>	<b>1.6016</b>	<b>12,746.0546</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.84	0.00	33.14	43.64	0.00	33.07	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
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
Mobile	6.5000e-004	9.3000e-004	7.0600e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.7201	1.7201	8.0000e-005	8.0000e-005	1.7446
Offroad	0.0000	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>2.7557</b>	<b>1.0400e-003</b>	<b>0.0196</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>5.0000e-005</b>	<b>1.7800e-003</b>	<b>4.6000e-004</b>	<b>5.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.7471</b>	<b>1.7471</b>	<b>1.5000e-004</b>	<b>8.0000e-005</b>	<b>1.7734</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**2.2 Overall Operational**

**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	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
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
Mobile	6.5000e-004	9.3000e-004	7.0600e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.7201	1.7201	8.0000e-005	8.0000e-005	1.7446
Offroad	0.0000	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>2.7557</b>	<b>1.0400e-003</b>	<b>0.0196</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>5.0000e-005</b>	<b>1.7800e-003</b>	<b>4.6000e-004</b>	<b>5.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.7471</b>	<b>1.7471</b>	<b>1.5000e-004</b>	<b>8.0000e-005</b>	<b>1.7734</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	Site Preparation	Site Preparation	5/2/2022	5/4/2022	5	3	
2	Grading	Grading	5/5/2022	5/12/2022	5	6	
3	Building Construction	Building Construction	5/13/2022	12/8/2022	5	150	
4	Paving	Paving	12/9/2022	1/19/2023	5	30	

Chiquito BESS - Riverside-South Coast County, Summer

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

5	Architectural Coating	Architectural Coating	1/18/2023	2/28/2023	5	30
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**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 184,913; Non-Residential Outdoor: 61,638; Striped Parking Area: 0 (Architectural Coating – sqft)**

**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	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	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
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Chiquito BESS - Riverside-South Coast County, Summer

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

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	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	993.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	52.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>1.3784</b>	<b>15.6673</b>	<b>10.0558</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5952</b>	<b>2.1859</b>	<b>0.1718</b>	<b>0.5476</b>	<b>0.7193</b>		<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0315	0.0204	0.3185	8.1000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		82.1515	82.1515	2.0500e-003	2.0300e-003	82.8087
<b>Total</b>	<b>0.0315</b>	<b>0.0204</b>	<b>0.3185</b>	<b>8.1000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>82.1515</b>	<b>82.1515</b>	<b>2.0500e-003</b>	<b>2.0300e-003</b>	<b>82.8087</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					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>1.3784</b>	<b>15.6673</b>	<b>10.0558</b>	<b>0.0245</b>	<b>0.7158</b>	<b>0.5952</b>	<b>1.3110</b>	<b>0.0773</b>	<b>0.5476</b>	<b>0.6249</b>	<b>0.0000</b>	<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>



Chiquito BESS - Riverside-South Coast County, Summer

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

**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0315	0.0204	0.3185	8.1000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		82.1515	82.1515	2.0500e-003	2.0300e-003	82.8087
<b>Total</b>	<b>0.0315</b>	<b>0.0204</b>	<b>0.3185</b>	<b>8.1000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>82.1515</b>	<b>82.1515</b>	<b>2.0500e-003</b>	<b>2.0300e-003</b>	<b>82.8087</b>

**3.3 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					7.2502	0.0000	7.2502	3.4501	0.0000	3.4501			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>7.2502</b>	<b>0.7423</b>	<b>7.9924</b>	<b>3.4501</b>	<b>0.6829</b>	<b>4.1330</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5234	21.1367	4.7003	0.0952	2.8967	0.2457	3.1424	0.7942	0.2351	1.0292		10,150.9746	10,150.9746	0.1373	1.5991	10,630.9267
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	0.0394	0.0255	0.3981	1.0200e-003	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		102.6894	102.6894	2.5600e-003	2.5400e-003	103.5109
<b>Total</b>	<b>0.5628</b>	<b>21.1623</b>	<b>5.0984</b>	<b>0.0962</b>	<b>3.0085</b>	<b>0.2462</b>	<b>3.2547</b>	<b>0.8238</b>	<b>0.2356</b>	<b>1.0594</b>		<b>10,253.6640</b>	<b>10,253.6640</b>	<b>0.1399</b>	<b>1.6016</b>	<b>10,734.4376</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					3.2626	0.0000	3.2626	1.5526	0.0000	1.5526			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>3.2626</b>	<b>0.7423</b>	<b>4.0049</b>	<b>1.5526</b>	<b>0.6829</b>	<b>2.2355</b>	<b>0.0000</b>	<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5234	21.1367	4.7003	0.0952	2.8967	0.2457	3.1424	0.7942	0.2351	1.0292		10,150.97 46	10,150.97 46	0.1373	1.5991	10,630.92 67
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	0.0394	0.0255	0.3981	1.0200e-003	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		102.6894	102.6894	2.5600e-003	2.5400e-003	103.5109
<b>Total</b>	<b>0.5628</b>	<b>21.1623</b>	<b>5.0984</b>	<b>0.0962</b>	<b>3.0085</b>	<b>0.2462</b>	<b>3.2547</b>	<b>0.8238</b>	<b>0.2356</b>	<b>1.0594</b>		<b>10,253.66 40</b>	<b>10,253.66 40</b>	<b>0.1399</b>	<b>1.6016</b>	<b>10,734.43 76</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.281 3	2,289.281 3	0.4417		2,300.323 0
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>		<b>2,289.281 3</b>	<b>2,289.281 3</b>	<b>0.4417</b>		<b>2,300.323 0</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0326	0.8457	0.2941	3.6400e-003	0.1281	0.0122	0.1403	0.0369	0.0117	0.0486		385.8907	385.8907	4.0800e-003	0.0572	403.0461
Worker	0.2049	0.1328	2.0701	5.2800e-003	0.5812	2.8900e-003	0.5841	0.1542	2.6600e-003	0.1568		533.9849	533.9849	0.0133	0.0132	538.2568
<b>Total</b>	<b>0.2374</b>	<b>0.9785</b>	<b>2.3642</b>	<b>8.9200e-003</b>	<b>0.7093</b>	<b>0.0151</b>	<b>0.7244</b>	<b>0.1910</b>	<b>0.0143</b>	<b>0.2054</b>		<b>919.8755</b>	<b>919.8755</b>	<b>0.0174</b>	<b>0.0705</b>	<b>941.3029</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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>	<b>0.0000</b>	<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0326	0.8457	0.2941	3.6400e-003	0.1281	0.0122	0.1403	0.0369	0.0117	0.0486		385.8907	385.8907	4.0800e-003	0.0572	403.0461
Worker	0.2049	0.1328	2.0701	5.2800e-003	0.5812	2.8900e-003	0.5841	0.1542	2.6600e-003	0.1568		533.9849	533.9849	0.0133	0.0132	538.2568
<b>Total</b>	<b>0.2374</b>	<b>0.9785</b>	<b>2.3642</b>	<b>8.9200e-003</b>	<b>0.7093</b>	<b>0.0151</b>	<b>0.7244</b>	<b>0.1910</b>	<b>0.0143</b>	<b>0.2054</b>		<b>919.8755</b>	<b>919.8755</b>	<b>0.0174</b>	<b>0.0705</b>	<b>941.3029</b>

**3.5 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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9412</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>		<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0591	0.0383	0.5972	1.5200e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		154.0341	154.0341	3.8400e-003	3.8100e-003	155.2664
<b>Total</b>	<b>0.0591</b>	<b>0.0383</b>	<b>0.5972</b>	<b>1.5200e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>154.0341</b>	<b>154.0341</b>	<b>3.8400e-003</b>	<b>3.8100e-003</b>	<b>155.2664</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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9412</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>	<b>0.0000</b>	<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0591	0.0383	0.5972	1.5200e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		154.0341	154.0341	3.8400e-003	3.8100e-003	155.2664
<b>Total</b>	<b>0.0591</b>	<b>0.0383</b>	<b>0.5972</b>	<b>1.5200e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>154.0341</b>	<b>154.0341</b>	<b>3.8400e-003</b>	<b>3.8100e-003</b>	<b>155.2664</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8802</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0548	0.0338	0.5488	1.4700e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		149.0611	149.0611	3.4500e-003	3.5200e-003	150.1959
<b>Total</b>	<b>0.0548</b>	<b>0.0338</b>	<b>0.5488</b>	<b>1.4700e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>149.0611</b>	<b>149.0611</b>	<b>3.4500e-003</b>	<b>3.5200e-003</b>	<b>150.1959</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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8802</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>



Chiquito BESS - Riverside-South Coast County, Summer

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0548	0.0338	0.5488	1.4700e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		149.0611	149.0611	3.4500e-003	3.5200e-003	150.1959
<b>Total</b>	<b>0.0548</b>	<b>0.0338</b>	<b>0.5488</b>	<b>1.4700e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>149.0611</b>	<b>149.0611</b>	<b>3.4500e-003</b>	<b>3.5200e-003</b>	<b>150.1959</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.0921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>38.2838</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0365	0.0226	0.3659	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		99.3740	99.3740	2.3000e-003	2.3500e-003	100.1306
<b>Total</b>	<b>0.0365</b>	<b>0.0226</b>	<b>0.3659</b>	<b>9.8000e-004</b>	<b>0.1118</b>	<b>5.2000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>4.8000e-004</b>	<b>0.0301</b>		<b>99.3740</b>	<b>99.3740</b>	<b>2.3000e-003</b>	<b>2.3500e-003</b>	<b>100.1306</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	38.0921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>38.2838</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0365	0.0226	0.3659	9.8000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		99.3740	99.3740	2.3000e-003	2.3500e-003	100.1306
<b>Total</b>	<b>0.0365</b>	<b>0.0226</b>	<b>0.3659</b>	<b>9.8000e-004</b>	<b>0.1118</b>	<b>5.2000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>4.8000e-004</b>	<b>0.0301</b>		<b>99.3740</b>	<b>99.3740</b>	<b>2.3000e-003</b>	<b>2.3500e-003</b>	<b>100.1306</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.5000e-004	9.3000e-004	7.0600e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.7201	1.7201	8.0000e-005	8.0000e-005	1.7446
Unmitigated	6.5000e-004	9.3000e-004	7.0600e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.7201	1.7201	8.0000e-005	8.0000e-005	1.7446

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.18	0.00	0.00	585	585
Total	0.18	0.00	0.00	585	585

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
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

Chiquito BESS - Riverside-South Coast County, Summer

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	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>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>

Chiquito BESS - Riverside-South Coast County, Summer

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

**5.2 Energy by Land Use - NaturalGas**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	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>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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
Unmitigated	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287

Chiquito BESS - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

**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	0.3131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1600e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
<b>Total</b>	<b>2.7551</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0270</b>	<b>0.0270</b>	<b>7.0000e-005</b>		<b>0.0287</b>

Chiquito BESS - Riverside-South Coast County, Summer

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1600e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
<b>Total</b>	<b>2.7551</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0270</b>	<b>0.0270</b>	<b>7.0000e-005</b>		<b>0.0287</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
Other General Industrial Equipment	50	12.00	365	88	0.34	Electrical
Other General Industrial Equipment	50	24.00	365	88	0.34	Electrical
Other General Industrial Equipment	50	24.00	365	88	0.34	Electrical



Chiquito BESS - Riverside-South Coast County, Summer

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

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Other General Industrial Equipment	0.0000	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>

**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**

Chiquito BESS - Riverside-South Coast County, Winter

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

**Chiquito BESS**

**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Heavy Industry	123.28	1000sqft	2.83	123,275.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<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 - Project site is 2.83 acres

Construction Phase - Nine month construction schedule

Trips and VMT -

Grading -

Vehicle Trips - Project would require at max a 4 person crew for maintenance visits every 2-3 months (about 48 trips per year)

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Off-road equipment includes security lighting; battery unit chillers; and bi-directional inverters.

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Use - BESS so would not require natural gas

Chiquito BESS - Riverside-South Coast County, Winter

**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
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	10.00	30.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24NG	15.20	0.00
tblGrading	MaterialExported	0.00	7,940.00
tblLandUse	LandUseSquareFeet	123,280.00	123,275.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperFuelType	Diesel	Electrical
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	12.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	24.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	50.00
tblVehicleTrips	ST_TR	6.42	0.00
tblVehicleTrips	SU_TR	5.09	0.00
tblVehicleTrips	WD_TR	3.93	1.5000e-003

**2.0 Emissions Summary**

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Chiquito BESS - Riverside-South Coast County, Winter

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

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.0780	39.3045	16.3363	0.1168	10.2586	0.9888	11.2475	4.2739	0.9188	5.1927	0.0000	12,247.22 22	12,247.22 22	0.7840	1.6029	12,744.48 52
2023	39.2495	9.9713	14.2379	0.0231	0.2794	0.5059	0.7854	0.0741	0.4723	0.5464	0.0000	2,216.546 5	2,216.546 5	0.5645	6.0000e- 003	2,232.448 1
<b>Maximum</b>	<b>39.2495</b>	<b>39.3045</b>	<b>16.3363</b>	<b>0.1168</b>	<b>10.2586</b>	<b>0.9888</b>	<b>11.2475</b>	<b>4.2739</b>	<b>0.9188</b>	<b>5.1927</b>	<b>0.0000</b>	<b>12,247.22 22</b>	<b>12,247.22 22</b>	<b>0.7840</b>	<b>1.6029</b>	<b>12,744.48 52</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	2.0780	39.3045	16.3363	0.1168	6.2710	0.9888	7.2599	2.3764	0.9188	3.2951	0.0000	12,247.22 22	12,247.22 22	0.7840	1.6029	12,744.48 52
2023	39.2495	9.9713	14.2379	0.0231	0.2794	0.5059	0.7854	0.0741	0.4723	0.5464	0.0000	2,216.546 5	2,216.546 5	0.5645	6.0000e- 003	2,232.448 1
<b>Maximum</b>	<b>39.2495</b>	<b>39.3045</b>	<b>16.3363</b>	<b>0.1168</b>	<b>6.2710</b>	<b>0.9888</b>	<b>7.2599</b>	<b>2.3764</b>	<b>0.9188</b>	<b>3.2951</b>	<b>0.0000</b>	<b>12,247.22 22</b>	<b>12,247.22 22</b>	<b>0.7840</b>	<b>1.6029</b>	<b>12,744.48 52</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.84	0.00	33.14	43.64	0.00	33.06	0.00	0.00	0.00	0.00	0.00	0.00

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
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
Mobile	5.6000e-004	9.8000e-004	6.1700e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.5968	1.5968	8.0000e-005	8.0000e-005	1.6218
Offroad	0.0000	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>2.7557</b>	<b>1.0900e-003</b>	<b>0.0187</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>5.0000e-005</b>	<b>1.7800e-003</b>	<b>4.6000e-004</b>	<b>5.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.6238</b>	<b>1.6238</b>	<b>1.5000e-004</b>	<b>8.0000e-005</b>	<b>1.6505</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**2.2 Overall Operational**

**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	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
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
Mobile	5.6000e-004	9.8000e-004	6.1700e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.5968	1.5968	8.0000e-005	8.0000e-005	1.6218
Offroad	0.0000	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>2.7557</b>	<b>1.0900e-003</b>	<b>0.0187</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>5.0000e-005</b>	<b>1.7800e-003</b>	<b>4.6000e-004</b>	<b>5.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.6238</b>	<b>1.6238</b>	<b>1.5000e-004</b>	<b>8.0000e-005</b>	<b>1.6505</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	Site Preparation	Site Preparation	5/2/2022	5/4/2022	5	3	
2	Grading	Grading	5/5/2022	5/12/2022	5	6	
3	Building Construction	Building Construction	5/13/2022	12/8/2022	5	150	
4	Paving	Paving	12/9/2022	1/19/2023	5	30	

Chiquito BESS - Riverside-South Coast County, Winter

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

5	Architectural Coating	Architectural Coating	1/18/2023	2/28/2023	5	30
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**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 184,913; Non-Residential Outdoor: 61,638; Striped Parking Area: 0 (Architectural Coating – sqft)**

**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	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	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
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Chiquito BESS - Riverside-South Coast County, Winter

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

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	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	993.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	52.00	20.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 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					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476		2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>1.3784</b>	<b>15.6673</b>	<b>10.0558</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5952</b>	<b>2.1859</b>	<b>0.1718</b>	<b>0.5476</b>	<b>0.7193</b>		<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>



Chiquito BESS - Riverside-South Coast County, Winter

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

**3.2 Site Preparation - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0294	0.0212	0.2581	7.4000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		74.4126	74.4126	2.0300e-003	2.0800e-003	75.0838
<b>Total</b>	<b>0.0294</b>	<b>0.0212</b>	<b>0.2581</b>	<b>7.4000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>74.4126</b>	<b>74.4126</b>	<b>2.0300e-003</b>	<b>2.0800e-003</b>	<b>75.0838</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					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.3784	15.6673	10.0558	0.0245		0.5952	0.5952		0.5476	0.5476	0.0000	2,375.1569	2,375.1569	0.7682		2,394.3613
<b>Total</b>	<b>1.3784</b>	<b>15.6673</b>	<b>10.0558</b>	<b>0.0245</b>	<b>0.7158</b>	<b>0.5952</b>	<b>1.3110</b>	<b>0.0773</b>	<b>0.5476</b>	<b>0.6249</b>	<b>0.0000</b>	<b>2,375.1569</b>	<b>2,375.1569</b>	<b>0.7682</b>		<b>2,394.3613</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.2 Site Preparation - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0294	0.0212	0.2581	7.4000e-004	0.0894	4.4000e-004	0.0899	0.0237	4.1000e-004	0.0241		74.4126	74.4126	2.0300e-003	2.0800e-003	75.0838
<b>Total</b>	<b>0.0294</b>	<b>0.0212</b>	<b>0.2581</b>	<b>7.4000e-004</b>	<b>0.0894</b>	<b>4.4000e-004</b>	<b>0.0899</b>	<b>0.0237</b>	<b>4.1000e-004</b>	<b>0.0241</b>		<b>74.4126</b>	<b>74.4126</b>	<b>2.0300e-003</b>	<b>2.0800e-003</b>	<b>75.0838</b>

**3.3 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					7.2502	0.0000	7.2502	3.4501	0.0000	3.4501			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>7.2502</b>	<b>0.7423</b>	<b>7.9924</b>	<b>3.4501</b>	<b>0.6829</b>	<b>4.1330</b>		<b>1,995.4825</b>	<b>1,995.4825</b>	<b>0.6454</b>		<b>2,011.6169</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.3 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4984	22.2944	4.8293	0.0952	2.8967	0.2460	3.1427	0.7942	0.2354	1.0295		10,158.72 40	10,158.72 40	0.1361	1.6003	10,639.01 34
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	0.0368	0.0265	0.3226	9.2000e-004	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		93.0158	93.0158	2.5400e-003	2.6000e-003	93.8548
<b>Total</b>	<b>0.5352</b>	<b>22.3209</b>	<b>5.1520</b>	<b>0.0962</b>	<b>3.0085</b>	<b>0.2466</b>	<b>3.2550</b>	<b>0.8238</b>	<b>0.2359</b>	<b>1.0597</b>		<b>10,251.73 98</b>	<b>10,251.73 98</b>	<b>0.1386</b>	<b>1.6029</b>	<b>10,732.86 82</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					3.2626	0.0000	3.2626	1.5526	0.0000	1.5526			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.482 5	1,995.482 5	0.6454		2,011.616 9
<b>Total</b>	<b>1.5403</b>	<b>16.9836</b>	<b>9.2202</b>	<b>0.0206</b>	<b>3.2626</b>	<b>0.7423</b>	<b>4.0049</b>	<b>1.5526</b>	<b>0.6829</b>	<b>2.2355</b>	<b>0.0000</b>	<b>1,995.482 5</b>	<b>1,995.482 5</b>	<b>0.6454</b>		<b>2,011.616 9</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.3 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4984	22.2944	4.8293	0.0952	2.8967	0.2460	3.1427	0.7942	0.2354	1.0295		10,158.72 40	10,158.72 40	0.1361	1.6003	10,639.01 34
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	0.0368	0.0265	0.3226	9.2000e-004	0.1118	5.6000e-004	0.1123	0.0296	5.1000e-004	0.0302		93.0158	93.0158	2.5400e-003	2.6000e-003	93.8548
<b>Total</b>	<b>0.5352</b>	<b>22.3209</b>	<b>5.1520</b>	<b>0.0962</b>	<b>3.0085</b>	<b>0.2466</b>	<b>3.2550</b>	<b>0.8238</b>	<b>0.2359</b>	<b>1.0597</b>		<b>10,251.73 98</b>	<b>10,251.73 98</b>	<b>0.1386</b>	<b>1.6029</b>	<b>10,732.86 82</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.281 3	2,289.281 3	0.4417		2,300.323 0
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>		<b>2,289.281 3</b>	<b>2,289.281 3</b>	<b>0.4417</b>		<b>2,300.323 0</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.4 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0312	0.8910	0.3054	3.6400e-003	0.1281	0.0122	0.1403	0.0369	0.0117	0.0486		386.3115	386.3115	4.0200e-003	0.0573	403.4974
Worker	0.1914	0.1378	1.6777	4.7900e-003	0.5812	2.8900e-003	0.5841	0.1542	2.6600e-003	0.1568		483.6819	483.6819	0.0132	0.0135	488.0450
<b>Total</b>	<b>0.2225</b>	<b>1.0288</b>	<b>1.9831</b>	<b>8.4300e-003</b>	<b>0.7093</b>	<b>0.0151</b>	<b>0.7245</b>	<b>0.1910</b>	<b>0.0144</b>	<b>0.2054</b>		<b>869.9934</b>	<b>869.9934</b>	<b>0.0172</b>	<b>0.0709</b>	<b>891.5423</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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
<b>Total</b>	<b>1.8555</b>	<b>14.6040</b>	<b>14.3533</b>	<b>0.0250</b>		<b>0.7022</b>	<b>0.7022</b>		<b>0.6731</b>	<b>0.6731</b>	<b>0.0000</b>	<b>2,289.2813</b>	<b>2,289.2813</b>	<b>0.4417</b>		<b>2,300.3230</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.4 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0312	0.8910	0.3054	3.6400e-003	0.1281	0.0122	0.1403	0.0369	0.0117	0.0486		386.3115	386.3115	4.0200e-003	0.0573	403.4974
Worker	0.1914	0.1378	1.6777	4.7900e-003	0.5812	2.8900e-003	0.5841	0.1542	2.6600e-003	0.1568		483.6819	483.6819	0.0132	0.0135	488.0450
<b>Total</b>	<b>0.2225</b>	<b>1.0288</b>	<b>1.9831</b>	<b>8.4300e-003</b>	<b>0.7093</b>	<b>0.0151</b>	<b>0.7245</b>	<b>0.1910</b>	<b>0.0144</b>	<b>0.2054</b>		<b>869.9934</b>	<b>869.9934</b>	<b>0.0172</b>	<b>0.0709</b>	<b>891.5423</b>

**3.5 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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9412</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>		<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.5 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0552	0.0398	0.4840	1.3800e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		139.5236	139.5236	3.8100e-003	3.9000e-003	140.7822
<b>Total</b>	<b>0.0552</b>	<b>0.0398</b>	<b>0.4840</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>139.5236</b>	<b>139.5236</b>	<b>3.8100e-003</b>	<b>3.9000e-003</b>	<b>140.7822</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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9412</b>	<b>9.3322</b>	<b>11.6970</b>	<b>0.0179</b>		<b>0.4879</b>	<b>0.4879</b>		<b>0.4500</b>	<b>0.4500</b>	<b>0.0000</b>	<b>1,709.6892</b>	<b>1,709.6892</b>	<b>0.5419</b>		<b>1,723.2356</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.5 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0552	0.0398	0.4840	1.3800e-003	0.1677	8.3000e-004	0.1685	0.0445	7.7000e-004	0.0452		139.5236	139.5236	3.8100e-003	3.9000e-003	140.7822
<b>Total</b>	<b>0.0552</b>	<b>0.0398</b>	<b>0.4840</b>	<b>1.3800e-003</b>	<b>0.1677</b>	<b>8.3000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.7000e-004</b>	<b>0.0452</b>		<b>139.5236</b>	<b>139.5236</b>	<b>3.8100e-003</b>	<b>3.9000e-003</b>	<b>140.7822</b>

**3.5 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8802</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>



Chiquito BESS - Riverside-South Coast County, Winter

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

**3.5 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0513	0.0351	0.4456	1.3400e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		135.0635	135.0635	3.4300e-003	3.6000e-003	136.2226
<b>Total</b>	<b>0.0513</b>	<b>0.0351</b>	<b>0.4456</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>135.0635</b>	<b>135.0635</b>	<b>3.4300e-003</b>	<b>3.6000e-003</b>	<b>136.2226</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	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.8802</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.5 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0513	0.0351	0.4456	1.3400e-003	0.1677	7.8000e-004	0.1685	0.0445	7.2000e-004	0.0452		135.0635	135.0635	3.4300e-003	3.6000e-003	136.2226
<b>Total</b>	<b>0.0513</b>	<b>0.0351</b>	<b>0.4456</b>	<b>1.3400e-003</b>	<b>0.1677</b>	<b>7.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>7.2000e-004</b>	<b>0.0452</b>		<b>135.0635</b>	<b>135.0635</b>	<b>3.4300e-003</b>	<b>3.6000e-003</b>	<b>136.2226</b>

**3.6 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.0921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>38.2838</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.6 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0342	0.0234	0.2971	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		90.0423	90.0423	2.2900e-003	2.4000e-003	90.8151
<b>Total</b>	<b>0.0342</b>	<b>0.0234</b>	<b>0.2971</b>	<b>8.9000e-004</b>	<b>0.1118</b>	<b>5.2000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>4.8000e-004</b>	<b>0.0301</b>		<b>90.0423</b>	<b>90.0423</b>	<b>2.2900e-003</b>	<b>2.4000e-003</b>	<b>90.8151</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	38.0921					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>38.2838</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

**3.6 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0342	0.0234	0.2971	8.9000e-004	0.1118	5.2000e-004	0.1123	0.0296	4.8000e-004	0.0301		90.0423	90.0423	2.2900e-003	2.4000e-003	90.8151
<b>Total</b>	<b>0.0342</b>	<b>0.0234</b>	<b>0.2971</b>	<b>8.9000e-004</b>	<b>0.1118</b>	<b>5.2000e-004</b>	<b>0.1123</b>	<b>0.0296</b>	<b>4.8000e-004</b>	<b>0.0301</b>		<b>90.0423</b>	<b>90.0423</b>	<b>2.2900e-003</b>	<b>2.4000e-003</b>	<b>90.8151</b>

Chiquito BESS - Riverside-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	9.8000e-004	6.1700e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.5968	1.5968	8.0000e-005	8.0000e-005	1.6218
Unmitigated	5.6000e-004	9.8000e-004	6.1700e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004		1.5968	1.5968	8.0000e-005	8.0000e-005	1.6218

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Heavy Industry	0.18	0.00	0.00	585	585
Total	0.18	0.00	0.00	585	585

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
General Heavy Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Heavy Industry	0.537845	0.056225	0.173186	0.138405	0.025906	0.007191	0.011447	0.018769	0.000611	0.000309	0.023821	0.001097	0.005189

Chiquito BESS - Riverside-South Coast County, Winter

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

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Heavy Industry	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>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>

Chiquito BESS - Riverside-South Coast County, Winter

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

**5.2 Energy by Land Use - Natural Gas**

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					
General Heavy Industry	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>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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
Unmitigated	2.7551	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287

Chiquito BESS - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

**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	0.3131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1600e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
<b>Total</b>	<b>2.7551</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0270</b>	<b>0.0270</b>	<b>7.0000e-005</b>		<b>0.0287</b>



Chiquito BESS - Riverside-South Coast County, Winter

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

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3131					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.4408					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1600e-003	1.1000e-004	0.0126	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0270	0.0270	7.0000e-005		0.0287
<b>Total</b>	<b>2.7551</b>	<b>1.1000e-004</b>	<b>0.0126</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0270</b>	<b>0.0270</b>	<b>7.0000e-005</b>		<b>0.0287</b>

**7.0 Water Detail**

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**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
Other General Industrial Equipment	50	12.00	365	88	0.34	Electrical
Other General Industrial Equipment	50	24.00	365	88	0.34	Electrical
Other General Industrial Equipment	50	24.00	365	88	0.34	Electrical

Chiquito BESS - Riverside-South Coast County, Winter

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

**UnMitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Other General Industrial Equipment	0.0000	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>

**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**