

**Appendix B      Air Quality, Greenhouse Gas Emissions,  
and Energy Analysis**

## Appendices

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# **Air Quality and Greenhouse Gas Appendix**

# **Assumptions Worksheet**

## CalEEMod Inputs - Redlands East Valley HS Field, Construction

**Name:** Redlands East Valley HS Field  
**Project Number:** RUS-13.0  
**Project Location:** 31000 East Colton Avenue  
**County/Air Basin:** San Bernardino  
**Climate Zone:** 10  
**Land Use Setting:** Urban  
**Operational Year:** 2026  
**Utility Company:** Southern California Edison  
**Air Basin:** South Coast Air Basin  
**Air District:** SCAQMD  
**SRA:** 35- East San Bernardino Valley

Project Site Acreage	6.95
Disturbed Site Acreage <sup>1</sup>	4.06

<sup>1</sup> Based on the maximum area disturbed in Phase 1 (P1) and Phase 3 (P3).

Project Components	SQFT	Tons	Phase		
<b>Worst-Case Demolition</b>					
Asphalt Demolition	N/A	2,500	P1		
<b>Worst-Case New Construction</b>					
Home concession/restroom buildings <sup>1</sup>	5,417	2,709	0.00	P3	2
<b>Total Non-Residential Area</b>	<b>5,417</b>	<b>2,709</b>	<b>0.00</b>		
<b>Other Non-Asphalt Surfaces</b>					
Total Hardscape	26,965	NA	0.62	P1	
Total Landscaping	150,098	NA	3.45	P1	
<b>Total Other Non-asphalt Surfaces</b>	<b>177,063</b>		<b>4.06</b>		
<b>Total</b>	<b>182,480.00</b>		<b>4.06</b>		

Notes:

<sup>1</sup> Acreage has been accounted for in the other non-asphalt surface area.

### CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Educational (Home concession/restroom buildings) <sup>1</sup>	High School	5.42	1000 sqft	0.00	5,417
Parking	Other Non-asphalt Surfaces	177.06	1000 sqft	4.06	177,063
<b>Total</b>				<b>4.06</b>	

Notes:

<sup>1</sup> Acreage has been accounted for in the other non-asphalt surface area.

**Demolition**

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (Tons) <sup>1</sup>	Haul Distance (miles) <sup>2</sup>	Total Trip Ends	Duration (days)	Trip Ends/Day
Asphalt Demolition Debris Haul	2500	20	25	250	10	25
<b>Total</b>	<b>2,500</b>			<b>250</b>		

Notes:

<sup>1</sup> CalEEMod default used.

<sup>2</sup> Haul distances of 25 miles provided by the Applicant.

**Architectural Coating**

	School
Interior Painted (%):	100%
Exterior Painted (%):	100%

**Rule 1113** < 50 flat / ≤ 100 nonflat

**CalEEMod Default** grams/liter

Interior Paint VOC content:	50
Exterior Paint VOC content:	50

Structures	Land Use Square Feet	CalEEMod Factor <sup>1</sup>	Total Paintable Surface Area	Paintable Interior Area <sup>2</sup>	Paintable Exterior Area <sup>2</sup>
<b>Non-Residential Structures</b>					
School	5,417	2.0	10,834	8,126	2,709
				<b>8,126</b>	<b>2,709</b>
<b>Parking<sup>3</sup></b>					
Parking Lot (Striping)	28,795	6%	1,728	-	1,728
					<b>1,728</b>

Notes

The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined <sup>1</sup> by the user.

<sup>2</sup> CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted. This <sup>3</sup> parking lot will remain and only be re-striped.

**Construction Mitigation**

**SCAQMD Rule 403**

Replace Ground Cover	PM10:	5	% Reduction
	PM2.5:	5	% Reduction
Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction

Unpaved Roads	Vehicle Speed:	<u>15</u>	mph
<b>SCAQMD Rule 1186</b>	Clean Paved Road	<u>9</u>	% PM Reduction

**Additional Mitigation Measures**

Water Exposed Area <sup>1</sup>	Frequency:	<u>6</u>	per day
	PM10:	<u>31</u>	% Reduction
	PM25:	<u>31</u>	% Reduction
Soil Stabilizer for Unpaved Roads <sup>2</sup>	PM10:	<u>84</u>	% Reduction
	PM2.5:	<u>84</u>	% Reduction

Notes:

<sup>1</sup> Applied mitigation measure to water frequency to 3 times per day to decrease fugitive dust only in Site Preparation phase.

<sup>2</sup> Applied mitigation measure of adding non-toxic soil stabilizer to decrease fugitive dust only in Site Preparation phase.

**Southern California Edison Carbon Intensity Factors**

	lbs/MWH
CO <sub>2</sub> : <sup>1,2</sup>	509.98
CH <sub>4</sub> : <sup>3</sup>	0.033
N <sub>2</sub> O: <sup>3</sup>	0.004

Notes:

<sup>1</sup> Based on CO<sub>2</sub>e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report. <https://www.edison.com/home/sustainability/sustainability-report.html>

<sup>2</sup> Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH<sub>4</sub> and N<sub>2</sub>O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

<sup>3</sup> CalEEMod default values.

Global Warming Potentials (GWP)		
	AR4	AR5
CO <sub>2</sub>	1	1
CH <sub>4</sub>	25	28
N <sub>2</sub> O	298	265
Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH <sub>4</sub> and N <sub>2</sub> O; Intergovernmental Panel on Climate Change (IPCC).		

**Construction Activities and Schedule Assumptions: Redlands East Valley HS Field (Worst-Case Scenario)**

based on durations provided by the District

**Construction Schedule (Worst Case Phase 1 to 3)**

Construction Activities	Phase Type	Start Date	End Date	CalEEMod Duration (Workday)
Asphalt Demolition	Demolition	3/5/2022	3/19/2022	10
Asphalt Demolition Debris Haul	Demolition	3/20/2022	4/2/2022	10
Site Preparation	Site Preparation	4/3/2022	4/9/2022	5
Rough Grading	Grading	4/10/2022	4/16/2022	5
Utility Trenching	Trenching	5/5/2022	5/18/2022	10
Fine Grading	Grading	5/28/2022	6/5/2022	5
Building Construction <sup>1</sup>	Building Construction	6/8/2022	11/2/2022	106
Asphalt Paving	Paving	6/15/2022	6/19/2022	3
Finishing/Landscaping	Trenching	6/8/2022	6/12/2022	3
Architectural Coating <sup>2</sup>	Architectural Coating	10/5/2022	11/2/2022	21

Notes:

<sup>1</sup> This accounts for the home ticket booth, concessions, custodial, and restroom building built in P3.

<sup>2</sup> Architectural Coating duration are assumed to be 20% of building construction duration. This accounts for painting of the home ticket booth facility and striping of the existing parking lot. See CalEEMod Appendix A.

**Overlapping Construction Schedule**

Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)	Notes
Asphalt Demolition	3/5/2022	3/19/2022	10	Phase 1 Demolition
Asphalt Demolition Debris haul	3/20/2022	4/2/2022	10	Reflects the highest demo volumes in Phase 1
Site Preparation	4/3/2022	4/9/2022	5	Reflects the most intensive site preparation in Phase 1
Rough Grading	4/10/2022	4/16/2022	5	Reflects the most intensive site preparation in Phase 3
Utility Trenching	5/5/2022	5/18/2022	10	Reflects the most intensive utility trenching in Phases 3
Fine Grading	5/28/2022	6/5/2022	5	Reflects the most intensive fine grading in Phase 3
Building Construction and Finishing/Landscaping	6/8/2022	6/12/2022	3	Reflects the most intensive construction in Phase P3
Building Construction	6/13/2022	11/2/2022	103	Reflects the most intensive construction in Phase P3
Asphalt Paving	6/15/2022	6/19/2022	3	Reflects the asphalt paving needed in Phase 3
Architectural Coating	10/5/2022	11/2/2022	21	Reflects the most intensive painting needed in Phase 3

Notes:

<sup>1</sup> The "Worst-Case" scenario is an amalgam of the Proposed Project Phase 1 through Phase 3 construction. In order to model the highest peak daily emissions, construction emissions were modeled for year 2022 and assume all three components of the project would be underconstruction.

**Overlapping Construction Schedule**

Construction Activities	Start Date	End Date	CalEEMod Duration (Workday)	Notes
Asphalt Demolition	3/5/2022	3/19/2022	10	Phase 1 Demolition



Asphalt Demolition Debris haul	3/20/2022	4/2/2022	10	Reflects the highest demo volumes in Phase 1
Site Preparation	4/3/2022	4/9/2022	5	Reflects the most intensive site preparation in Phase 1
Rough Grading	4/10/2022	4/16/2022	5	Reflects the most intensive site preparation in Phase 3
Utility Trenching	5/5/2022	5/18/2022	10	Reflects the most intensive utility trenching in Phases 3
Fine Grading	5/28/2022	6/5/2022	5	Reflects the most intensive fine grading in Phase 3
Building Construction and Finishing/Landscaping	6/8/2022	6/12/2022	3	Reflects the most intensive construction in Phase P3
Building Construction 1	6/13/2022	6/14/2022	2	Reflects the most intensive construction in Phase P3
Building Construction and Asphalt Paving	6/15/2022	6/19/2022	3	Reflects the asphalt paving needed in Phase 3
Building Construction 2	6/20/2022	10/4/2022	77	Reflects the most intensive construction in Phase P3
Building Construction and Architectural Coating	10/5/2022	11/2/2022	21	Reflects the most intensive painting needed in Phase 3

Notes:

<sup>1</sup> The "Worst-Case" scenario is an amalgam of the Proposed Project Phase 1 through Phase 3 construction. To model the highest peak daily emissions, construction emissions were modeled for year 2022 and assume all three components of the project would be under construction.

## CalEEMod Construction Off-Road Equipment Inputs

\*Based on equipment mix and horsepower provided by the District

General Construction Hours:

8 hours

btwn 7:00 AM to 4:00 PM (with 1 hr break), Mon-Fri

CalEEMod Equipment	District Proposed Model	# of Equipment	hr/day	hp	load factor	total trips/Day
<b>Asphalt Demolition (Phase 1)</b>						
Crushing/Proc. Equipment	Cat Milling Machine (PM310)	1	8	336	0.78	
Crushing/Proc. Equipment	Terex Jaw Plant Crusher (CRJ3042)	1	8	85	0.78	
Rubber Tired Loaders	Liugong Wheel Loader (856)	1	8	193	0.36	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Excavators	John Deere Excavator With Hammer (350G)	1	8	271	0.38	
Rubber Tired Dozers	John Deere Dozer (700L)	1	8	135	0.4	
Worker Trips						15
Vendor Trips: Water Trucks						2
Hauling Trips (TOTAL TRIPS)						
<b>Asphalt Demolition Debris Haul (Phase 1)</b>						
Excavators	John Deere Excavator With Hammer (350G)	1	8	271	0.38	
Crushing/Proc. Equipment	Terex Jaw Plant Crusher (CRJ3042)	1	8	85	0.78	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Rubber Tired Dozers	John Deere Dozer (700L)	1	8	135	0.4	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	1	8	111	0.37	
Worker Trips						
Vendor Trips						
Hauling Trips (TOTAL TRIPS)						250
<b>Site Preparation (Phase 1)</b>						
Rubber Tired Loaders	Liugong Wheel Loader (856)	1	8	193	0.36	
Rubber Tired Dozers	Komatsu Dozer (D65EX-18)	1	8	217	0.4	
Rubber Tired Dozers	John Deere Dozer (700L)	2	8	135	0.4	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	1	8	111	0.37	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Frieghtliner Water Truck		1	8			
Worker Trips						15
Vendor Trips: Water Trucks						2
Hauling Trips (TOTAL TRIPS)						
<b>Rough Grading (Phase 3)</b>						
Rubber Tired Dozers	Komatsu Dozer (D65EX-18)	1	8	217	0.4	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Rubber Tired Dozers	John Deere Dozer (700L)	1	8	135	0.4	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	1	8	111	0.37	
Worker Trips						10
Vendor Trips: Water Trucks						2
Hauling Trips (TOTAL TRIPS)						
<b>Fine Grading (Phase 3)</b>						
Rubber Tired Dozers	John Deere Dozer (700L)	1	8	135	0.4	
Graders	John Deere Grader (620G/GP)	1	8	255	0.41	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	1	8	111	0.37	
Worker Trips						10
Vendor Trips: Water Trucks						2
Hauling Trips (TOTAL TRIPS)						
<b>Utility Trenching (Phase 3)</b>						
Excavators	John Deere Excavator With Hammer (350G)	1	8	271	0.38	
Rubber Tired Loaders	Liugong Wheel Loader (856)	1	8	193	0.36	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	1	8	111	0.37	
Worker Trips						10
Vendor Trips						
Hauling Trips (TOTAL TRIPS)						
<b>Building Construction (Phase 3)</b>						
Rubber Tired Dozers	John Deere Dozer (700L)	1	8	135	0.4	
Excavators	John Deere Excavator With Hammer (350G)	1	8	271	0.38	
Rubber Tired Dozers	Komatsu Dozer (D65EX-18)	1	8	217	0.4	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	1	8	111	0.37	

Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Worker Trips						77
Vendor Trips						30
Hauling Trips (TOTAL TRIPS)						
<b>Asphalt Paving (Phase 3)</b>						
Pavers	Cat Asphalt Paver (AP1055F)	1	8	225	0.42	
Rollers	Cat Double Drum Asphalt Roller (CB36B)	1	8	49	0.38	
Worker Trips						5
Vendor Trips: Water Trucks & Dump Trucks						14
Hauling Trips (TOTAL TRIPS)						
<b>Building Construction &amp; Finishing/landscaping (Phase 3)</b>						
Rubber Tired Dozers	John Deere Dozer (700L)	1	8	135	0.4	
Rubber Tired Dozers	Komatsu Dozer (D65EX-18)	1	8	217	0.4	
Skid Steer Loaders	Takeuchi Skid Steer (TL12)	2	8	111	0.37	
Rollers	Cat Vibratory Soil Compactor (CP11GC)	1	8	121	0.38	
Excavators	John Deere Excavator (350G)	2	8	271	0.38	
Pavers	Cat Asphalt Paver (AP1055F)	1	8	225	0.42	
Rollers	Cat Double Drum Asphalt Roller (CB36B)	1	8	49	0.38	
Worker Trips						77
Vendor Trips: Water Trucks & Dump Trucks						40
Hauling Trips (TOTAL TRIPS)						
<b>Architectural Coating (based on Phase 3 Building Construction)</b>						
Air Compressor	NA	1	6	78	0.48	
Worker Trips						15
Vendor Trips						
Hauling Trips (TOTAL TRIPS)						

Notes

<sup>1</sup> Used CalEEMod default for Terex Jaw Plant Crusher as worst-case scenario for this type of equipment.

### Construction Trips Worksheet

Phase Name	Worker Trip Ends	Vendor Trip Ends	Total Haul Truck		Start Date	End Date	Workdays
	Per Day	Per Day	Haul Truck Trip Ends	Trip Ends			
Asphalt Demolition	15	2	0	0	3/5/2022	3/19/2022	10
Asphalt Demolition Debris haul	0	0	25	250	3/20/2022	4/2/2022	10
Site Preparation	15	2	0	0	4/3/2022	4/9/2022	5
Rough Grading	10	2	0	0	4/10/2022	4/16/2022	5
Utility Trenching	10	0	0	0	5/5/2022	5/18/2022	10
Fine Grading	10	2	0	0	5/28/2022	6/5/2022	5
Building Construction and Finishing/Landscaping	77	40	0	0	6/8/2022	6/12/2022	3
Building Construction	77	30	0	0	6/13/2022	11/2/2022	103
Asphalt Paving	5	14	0	0	6/15/2022	6/19/2022	3
Architectural Coating	15	0	0	0	10/5/2022	11/2/2022	21

Construction Activity (Overlapping)	Worker Trip Ends	Vendor Trip Ends	Haul Truck Trip Ends	Total Trip Ends	Start Date	End Date	Workdays
	Per Day	Per Day	Per Day	Per Day			
Asphalt Demolition	15	2	0	17	3/5/2022	3/19/2022	10
Asphalt Demolition Debris haul	0	0	25	25	3/20/2022	4/2/2022	10
Site Preparation	15	2	0	17	4/3/2022	4/9/2022	5
Rough Grading	10	2	0	12	4/10/2022	4/16/2022	5
Utility Trenching	10	0	0	10	5/5/2022	5/18/2022	10
Fine Grading	10	2	0	12	5/28/2022	6/5/2022	5
Building Construction and Finishing/Landscaping	77	40	0	117	6/8/2022	6/12/2022	3
Building Construction 1	77	30	0	107	6/13/2022	6/14/2022	2
Building Construction and Asphalt Paving	82	44	0	126	6/15/2022	6/19/2022	3
Building Construction 2	77	30	0	107	6/20/2022	10/4/2022	77
Building Construction and Architectural Coating	92	30	0	122	10/5/2022	11/2/2022	21
<b>Maximum Daily Trips</b>	<b>92</b>	<b>44</b>	<b>25</b>	<b>126</b>			

## Musco Stadium Lighting Calculations - Redlands East Valley HS Field, Operations

### Southern California Edison Carbon Intensity Factors

	lbs/MWH
CO <sub>2</sub> : <sup>1,2</sup>	509.98
CH <sub>4</sub> : <sup>3</sup>	0.033
N <sub>2</sub> O: <sup>3</sup>	0.004

Notes:

<sup>1</sup>

Based on CO<sub>2</sub>e intensity factor of 512 pounds per megawatt hour; Southern California Edison. 2021. 2020 Sustainability Report. <https://www.edison.com/home/sustainability/sustainability-report.html>

<sup>2</sup>

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH<sub>4</sub> and N<sub>2</sub>O; Intergovernmental Panel on Climate Change (IPCC). 2007. Fourth Assessment Report: Climate Change 2007.

<sup>3</sup>

CalEEMod default values.

Global Warming Potentials (GWP)		
	AR4	AR5
CO <sub>2</sub>	1	1
CH <sub>4</sub>	25	28
N <sub>2</sub> O	298	265

Based on Intergovernmental Panel on Climate Change Fourth Assessment Report global warming potentials for CH<sub>4</sub> and N<sub>2</sub>O; Intergovernmental Panel on Climate Change (IPCC).

### Lighting (Electricity Use)

Electricity:	kW/Event <sup>1</sup>	Events/Year <sup>2</sup>	Hours <sup>3</sup>	Kwh (Annual)
Practices/Games	74.81	60	4	17,954
			<b>Total Annual kWh</b>	<b>17,954</b>

### Calculation of GHGs from Field Lighting

CO <sub>2</sub> <sup>4</sup>	CH <sub>4</sub> <sup>4</sup>	N <sub>2</sub> O <sup>4</sup>	CO <sub>2</sub> e	CO <sub>2</sub> e
lbs/Mwh	lbs/Mwh	lbs/Mwh	lbs/Mwh	MT/Kwh
509.98300	0.03300	0.00400	510.02	0.000231
			<b>CO<sub>2</sub>e from Lighting</b>	<b>4.15</b>

Notes

<sup>1</sup> Based on Musco Lighting Plan for the proposed high school stadium as provided by the District.

<sup>2</sup> Based on the estimated total of 60 events per year that was provided by Applicant.

<sup>3</sup> Based on four hours per day maximum.

<sup>4</sup> California Air Pollution Control Officers Association (CAPCOA). 2016. California Emissions Estimator Model (CalEEMod), Version 2016.3.2. Based on the California Air Resources Board (CARB) Local Government Operations Protocol (LGO) for CO<sub>2</sub> and E-Grid values for CH<sub>4</sub> and N<sub>2</sub>O. Appendix D, Default Data Tables. Table 1.2, Electrical Utility Emission Factors of GHGs.

# **Emissions Worksheet**

# Regional Construction Emissions Worksheet:

Asphalt Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>						
	Off-Road							
	Total							
Offsite								
	Hauling							
	Vendor							
	Worker							
	Total							
<b>TOTAL</b>								
Onsite		<b>2022 Winter</b>						
	Off-Road		2.87	21.33	18.58	0.05	0.94	0.89
	Total		<b>2.87</b>	<b>21.33</b>	<b>18.58</b>	<b>0.05</b>	<b>0.94</b>	<b>0.89</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.09	0.03	0.00	0.01	0.00
	Worker		0.06	0.04	0.51	0.00	0.16	0.04
	Total		<b>0.06</b>	<b>0.13</b>	<b>0.54</b>	<b>0.00</b>	<b>0.17</b>	<b>0.05</b>
<b>TOTAL</b>			<b>2.94</b>	<b>21.47</b>	<b>19.12</b>	<b>0.06</b>	<b>1.11</b>	<b>0.94</b>
Onsite		<b>2022</b>						
	Off-Road		2.87	21.33	18.58	0.05	0.94	0.89
	Total		<b>2.87</b>	<b>21.33</b>	<b>18.58</b>	<b>0.05</b>	<b>0.94</b>	<b>0.89</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.00	0.09	0.03	0.00	0.01	0.00
	Worker		0.06	0.04	0.51	0.00	0.16	0.04
	Total		<b>0.06</b>	<b>0.13</b>	<b>0.54</b>	<b>0.00</b>	<b>0.17</b>	<b>0.05</b>
<b>TOTAL</b>			<b>2.94</b>	<b>21.47</b>	<b>19.12</b>	<b>0.06</b>	<b>1.11</b>	<b>0.94</b>

Asphalt Demolition Debris Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>						
	Fugitive Dust							
	Off-Road							
	Total							
Offsite								
	Hauling							
	Vendor							
	Worker							
	Total							
<b>TOTAL</b>								
Onsite		<b>2022 Winter</b>						
	Fugitive Dust						2.29	0.35
	Off-Road		1.53	13.60	14.52	0.03	0.68	0.64
	Total		<b>1.53</b>	<b>13.60</b>	<b>14.52</b>	<b>0.03</b>	<b>2.96</b>	<b>0.98</b>
Offsite								
	Hauling		0.09	3.58	0.91	0.01	0.44	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.05	0.04	0.44	0.00	0.13	0.04
	Total		<b>0.14</b>	<b>3.61</b>	<b>1.35</b>	<b>0.02</b>	<b>0.58</b>	<b>0.18</b>
<b>TOTAL</b>			<b>1.68</b>	<b>17.21</b>	<b>15.87</b>	<b>0.04</b>	<b>3.54</b>	<b>1.17</b>
Onsite		<b>2022</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	2.29	0.35
	Off-Road		1.53	13.60	14.52	0.03	0.68	0.64
	Total		<b>1.53</b>	<b>13.60</b>	<b>14.52</b>	<b>0.03</b>	<b>2.96</b>	<b>0.98</b>
Offsite								
	Hauling		0.09	3.58	0.91	0.01	0.44	0.15
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.05	0.04	0.44	0.00	0.13	0.04
	Total		<b>0.14</b>	<b>3.61</b>	<b>1.35</b>	<b>0.02</b>	<b>0.58</b>	<b>0.18</b>
<b>TOTAL</b>			<b>1.68</b>	<b>17.21</b>	<b>15.87</b>	<b>0.04</b>	<b>3.54</b>	<b>1.17</b>

Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>						
	Fugitive Dust							
	Off-Road							
	Total							

Offsite	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							

Onsite		<b>2022 Winter</b>						
	Fugitive Dust					8.18	4.29	
	Off-Road	2.33	23.87	16.17	0.03	1.17	1.08	
	Total	<b>2.33</b>	<b>23.87</b>	<b>16.17</b>	<b>0.03</b>	<b>9.35</b>	<b>5.37</b>	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00
	Worker	0.06	0.04	0.51	0.00	0.16	0.04
	Total	<b>0.06</b>	<b>0.13</b>	<b>0.54</b>	<b>0.00</b>	<b>0.17</b>	<b>0.05</b>
<b>TOTAL</b>		<b>2.40</b>	<b>24.00</b>	<b>16.71</b>	<b>0.03</b>	<b>9.52</b>	<b>5.42</b>

Onsite		<b>2022</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	8.18	4.29	
	Off-Road	2.33	23.87	16.17	0.03	1.17	1.08	
	Total	<b>2.33</b>	<b>23.87</b>	<b>16.17</b>	<b>0.03</b>	<b>9.35</b>	<b>5.37</b>	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00
	Worker	0.06	0.04	0.51	0.00	0.16	0.04
	Total	<b>0.06</b>	<b>0.13</b>	<b>0.54</b>	<b>0.00</b>	<b>0.17</b>	<b>0.05</b>
<b>TOTAL</b>		<b>2.40</b>	<b>24.00</b>	<b>16.71</b>	<b>0.03</b>	<b>9.52</b>	<b>5.42</b>

**Rough Grading**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite		<b>2022 Summer</b>						
	Fugitive Dust							
	Off-Road							
	Total							

Offsite	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							

Onsite		<b>2022 Winter</b>						
	Fugitive Dust					2.80	1.44	
	Off-Road	1.49	15.46	11.14	0.02	0.76	0.70	
	Total	<b>1.49</b>	<b>15.46</b>	<b>11.14</b>	<b>0.02</b>	<b>3.56</b>	<b>2.14</b>	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00
	Worker	0.04	0.03	0.34	0.00	0.10	0.03
	Total	<b>0.04</b>	<b>0.12</b>	<b>0.37</b>	<b>0.00</b>	<b>0.12</b>	<b>0.03</b>
<b>TOTAL</b>		<b>1.53</b>	<b>15.58</b>	<b>11.51</b>	<b>0.02</b>	<b>3.68</b>	<b>2.17</b>

Onsite		<b>2022</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.80	1.44	
	Off-Road	1.49	15.46	11.14	0.02	0.76	0.70	
	Total	<b>1.49</b>	<b>15.46</b>	<b>11.14</b>	<b>0.02</b>	<b>3.56</b>	<b>2.14</b>	

Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00
	Worker	0.04	0.03	0.34	0.00	0.10	0.03
	Total	<b>0.04</b>	<b>0.12</b>	<b>0.37</b>	<b>0.00</b>	<b>0.12</b>	<b>0.03</b>
<b>TOTAL</b>		<b>1.53</b>	<b>15.58</b>	<b>11.51</b>	<b>0.02</b>	<b>3.68</b>	<b>2.17</b>

**Utility Trenching**

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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Onsite		<b>2022 Summer</b>						
	Off-Road							
	Total							

Offsite	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							



		2022 Winter						
Onsite	Off-Road	0.76	7.74	8.11	0.02	0.28	0.26	
	Total	<b>0.76</b>	<b>7.74</b>	<b>8.11</b>	<b>0.02</b>	<b>0.28</b>	<b>0.26</b>	
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00	
	Worker	0.04	0.03	0.34	0.00	0.10	0.03	
	Total	<b>0.04</b>	<b>0.03</b>	<b>0.34</b>	<b>0.00</b>	<b>0.10</b>	<b>0.03</b>	
<b>TOTAL</b>		<b>0.80</b>	<b>7.77</b>	<b>8.45</b>	<b>0.02</b>	<b>0.39</b>	<b>0.29</b>	

### Fine Grading

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2022 Summer						
	Fugitive Dust						
	Off-Road						
	Total						
Offsite	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							

		2022 Winter						
Onsite	Fugitive Dust					3.03	1.46	
	Off-Road	1.40	13.67	10.87	0.02	0.63	0.58	
	Total	<b>1.40</b>	<b>13.67</b>	<b>10.87</b>	<b>0.02</b>	<b>3.66</b>	<b>2.05</b>	
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00	
	Worker	0.04	0.03	0.34	0.00	0.10	0.03	
	Total	<b>0.04</b>	<b>0.12</b>	<b>0.37</b>	<b>0.00</b>	<b>0.12</b>	<b>0.03</b>	
<b>TOTAL</b>		<b>1.44</b>	<b>13.79</b>	<b>11.24</b>	<b>0.02</b>	<b>3.78</b>	<b>2.08</b>	

### Building Construction and Finishing/Landscaping

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	2022 Summer						
	Off-Road						
	Total						
Offsite	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							

		2022 Winter						
Onsite	Off-Road	2.55	25.35	20.49	0.05	1.12	1.03	
	Total	<b>2.55</b>	<b>25.35</b>	<b>20.49</b>	<b>0.05</b>	<b>1.12</b>	<b>1.03</b>	
Offsite	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	
	Vendor	0.07	1.84	0.67	0.01	0.26	0.09	
	Worker	0.31	0.22	2.60	0.01	0.80	0.22	
	Total	<b>0.38</b>	<b>2.06</b>	<b>3.27</b>	<b>0.01</b>	<b>1.06</b>	<b>0.31</b>	
<b>TOTAL</b>		<b>2.93</b>	<b>27.40</b>	<b>23.76</b>	<b>0.06</b>	<b>2.18</b>	<b>1.34</b>	

Onsite		<b>2022</b>						
	Off-Road		2.55	25.35	20.49	0.05	1.12	1.03
	Total		<b>2.55</b>	<b>25.35</b>	<b>20.49</b>	<b>0.05</b>	<b>1.12</b>	<b>1.03</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.07	1.84	0.67	0.01	0.26	0.09
	Worker		0.31	0.22	2.60	0.01	0.80	0.22
	Total		<b>0.38</b>	<b>2.06</b>	<b>3.27</b>	<b>0.01</b>	<b>1.06</b>	<b>0.31</b>
<b>TOTAL</b>			<b>2.93</b>	<b>27.40</b>	<b>23.76</b>	<b>0.06</b>	<b>2.18</b>	<b>1.34</b>

**Building Construction (6/13/2022-6/14/2022)**

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>						
	Off-Road							
	Total							
Offsite								
	Hauling							
	Vendor							
	Worker							
	Total							
<b>TOTAL</b>								

Onsite		<b>2022 Winter</b>						
	Off-Road		1.72	17.35	13.06	0.03	0.83	0.76
	Total		<b>1.72</b>	<b>17.35</b>	<b>13.06</b>	<b>0.03</b>	<b>0.83</b>	<b>0.76</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.05	1.38	0.50	0.01	0.20	0.07
	Worker		0.31	0.22	2.60	0.01	0.80	0.22
	Total		<b>0.36</b>	<b>1.60</b>	<b>3.10</b>	<b>0.01</b>	<b>0.99</b>	<b>0.28</b>
<b>TOTAL</b>			<b>2.08</b>	<b>18.95</b>	<b>16.17</b>	<b>0.04</b>	<b>1.82</b>	<b>1.04</b>

Onsite		<b>2022</b>						
	Off-Road		1.72	17.35	13.06	0.03	0.83	0.76
	Total		<b>1.72</b>	<b>17.35</b>	<b>13.06</b>	<b>0.03</b>	<b>0.83</b>	<b>0.76</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.05	1.38	0.50	0.01	0.20	0.07
	Worker		0.31	0.22	2.60	0.01	0.80	0.22
	Total		<b>0.36</b>	<b>1.60</b>	<b>3.10</b>	<b>0.01</b>	<b>0.99</b>	<b>0.28</b>
<b>TOTAL</b>			<b>2.08</b>	<b>18.95</b>	<b>16.17</b>	<b>0.04</b>	<b>1.82</b>	<b>1.04</b>

**Asphalt Paving**

			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>						
	Off-Road							
	Paving							
	Total							
Offsite								
	Hauling							
	Vendor							
	Worker							
	Total							
<b>TOTAL</b>								

Onsite		<b>2022 Winter</b>						
	Off-Road		0.48	4.52	3.13	0.01	0.17	0.16
	Paving		0.00				0.00	0.00
	Total		<b>0.48</b>	<b>4.52</b>	<b>3.13</b>	<b>0.01</b>	<b>0.17</b>	<b>0.16</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.02	0.64	0.23	0.00	0.09	0.03
	Worker		0.02	0.01	0.17	0.00	0.05	0.01
	Total		<b>0.04</b>	<b>0.66</b>	<b>0.40</b>	<b>0.00</b>	<b>0.14</b>	<b>0.05</b>
<b>TOTAL</b>			<b>0.52</b>	<b>5.18</b>	<b>3.53</b>	<b>0.01</b>	<b>0.32</b>	<b>0.20</b>

Onsite		<b>2022</b>						
	Off-Road		0.48	4.52	3.13	0.01	0.17	0.16
	Paving		0.00	0.00	0.00	0.00	0.00	0.00
	Total		<b>0.48</b>	<b>4.52</b>	<b>3.13</b>	<b>0.01</b>	<b>0.17</b>	<b>0.16</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.02	0.64	0.23	0.00	0.09	0.03
	Worker		0.02	0.01	0.17	0.00	0.05	0.01
	Total		<b>0.04</b>	<b>0.66</b>	<b>0.40</b>	<b>0.00</b>	<b>0.14</b>	<b>0.05</b>
<b>TOTAL</b>			<b>0.52</b>	<b>5.18</b>	<b>3.53</b>	<b>0.01</b>	<b>0.32</b>	<b>0.20</b>

<b>Building Construction (6/20/2022-10/4/2022)</b>							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>					
	Off-Road						
	Total						
Offsite							
	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							
Onsite		<b>2022 Winter</b>					
	Off-Road	1.37	13.63	11.87	0.03	0.61	0.56
	Total	<b>1.37</b>	<b>13.63</b>	<b>11.87</b>	<b>0.03</b>	<b>0.61</b>	<b>0.56</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.38	0.50	0.01	0.20	0.07
	Worker	0.31	0.22	2.60	0.01	0.80	0.22
	Total	<b>0.36</b>	<b>1.60</b>	<b>3.10</b>	<b>0.01</b>	<b>0.99</b>	<b>0.28</b>
<b>TOTAL</b>		<b>1.73</b>	<b>15.23</b>	<b>14.97</b>	<b>0.04</b>	<b>1.60</b>	<b>0.84</b>
Onsite		<b>2022</b>					
	Off-Road	1.37	13.63	11.87	0.03	0.61	0.56
	Total	<b>1.37</b>	<b>13.63</b>	<b>11.87</b>	<b>0.03</b>	<b>0.61</b>	<b>0.56</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.05	1.38	0.50	0.01	0.20	0.07
	Worker	0.31	0.22	2.60	0.01	0.80	0.22
	Total	<b>0.36</b>	<b>1.60</b>	<b>3.10</b>	<b>0.01</b>	<b>0.99</b>	<b>0.28</b>
<b>TOTAL</b>		<b>1.73</b>	<b>15.23</b>	<b>14.97</b>	<b>0.04</b>	<b>1.60</b>	<b>0.84</b>

<b>Architectural Coating</b>							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Summer</b>					
	Architectural Coating						
	Off-Road						
	Total						
Offsite							
	Hauling						
	Vendor						
	Worker						
	Total						
<b>TOTAL</b>							
Onsite		<b>2022 Winter</b>					
	Architectural Coating	2.77				0.00	0.00
	Off-Road	0.20	1.41	1.81	0.00	0.08	0.08
	Total	<b>2.98</b>	<b>1.41</b>	<b>1.81</b>	<b>0.00</b>	<b>0.08</b>	<b>0.08</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.51	0.00	0.16	0.04
	Total	<b>0.06</b>	<b>0.04</b>	<b>0.51</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>3.04</b>	<b>1.45</b>	<b>2.32</b>	<b>0.00</b>	<b>0.24</b>	<b>0.12</b>
Onsite		<b>2022</b>					
	Architectural Coating	2.77	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.20	1.41	1.81	0.00	0.08	0.08
	Total	<b>2.98</b>	<b>1.41</b>	<b>1.81</b>	<b>0.00</b>	<b>0.08</b>	<b>0.08</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.06	0.04	0.51	0.00	0.16	0.04
	Total	<b>0.06</b>	<b>0.04</b>	<b>0.51</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>3.04</b>	<b>1.45</b>	<b>2.32</b>	<b>0.00</b>	<b>0.24</b>	<b>0.12</b>

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
<b>Asphalt Demolition</b>	<b>3</b>	<b>21</b>	<b>19</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>Asphalt Demolition Debris Haul</b>	<b>2</b>	<b>17</b>	<b>16</b>	<b>0</b>	<b>4</b>	<b>1</b>

<i>Site Preparation</i>	<b>2</b>	<b>24</b>	<b>17</b>	<b>0</b>	<b>10</b>	<b>5</b>
<i>Rough Grading</i>	<b>2</b>	<b>16</b>	<b>12</b>	<b>0</b>	<b>4</b>	<b>2</b>
<i>Utilities Trenching</i>	<b>1</b>	<b>8</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>
<i>Fine Grading</i>	<b>1</b>	<b>14</b>	<b>11</b>	<b>0</b>	<b>4</b>	<b>2</b>
<i>Building Construction and Finishing/Landscaping</i>	<b>3</b>	<b>27</b>	<b>24</b>	<b>0</b>	<b>2</b>	<b>1</b>
<i>Building Construction (6/13/2022-6/14/2022)</i>	<b>2</b>	<b>19</b>	<b>16</b>	<b>0</b>	<b>2</b>	<b>1</b>
<i>Building Construction and Asphalt Paving</i>	<b>3</b>	<b>24</b>	<b>20</b>	<b>0</b>	<b>2</b>	<b>1</b>
<i>Building Construction (6/20/2022-10/4/2022)</i>	<b>2</b>	<b>15</b>	<b>15</b>	<b>0</b>	<b>2</b>	<b>1</b>
<i>Building Construction and Architectural Coating</i>	<b>5</b>	<b>17</b>	<b>17</b>	<b>0</b>	<b>2</b>	<b>1</b>
<b>MAX DAILY</b>	<b>5</b>	<b>27</b>	<b>24</b>	<b>0</b>	<b>10</b>	<b>5</b>
<b>Regional Thresholds</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

## Construction LST Worksheet:

Asphalt Demolition			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				
	Off-Road		21.33	18.58	0.94	0.89
	Total		<b>21.33</b>	<b>18.58</b>	<b>0.94</b>	<b>0.89</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>21.33</b>	<b>18.58</b>	<b>0.94</b>	<b>0.89</b>
Onsite		<b>2022</b>				
	Off-Road		21.33	18.58	0.94	0.89
	Total		<b>21.33</b>	<b>18.58</b>	<b>0.94</b>	<b>0.89</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>21.33</b>	<b>18.58</b>	<b>0.94</b>	<b>0.89</b>

Asphalt Demolition Debris Haul			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Fugitive Dust					
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				
	Fugitive Dust				2.29	0.35
	Off-Road		13.60	14.52	0.68	0.64
	Total		<b>13.60</b>	<b>14.52</b>	<b>2.96</b>	<b>0.98</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>13.60</b>	<b>14.52</b>	<b>2.96</b>	<b>0.98</b>
Onsite		<b>2022</b>				
	Fugitive Dust		0.00	0.00	2.29	0.35
	Off-Road		13.60	14.52	0.68	0.64
	Total		<b>13.60</b>	<b>14.52</b>	<b>2.96</b>	<b>0.98</b>
Offsite						

	Hauling Vendor Worker Total				
<b>TOTAL</b>		<b>13.60</b>	<b>14.52</b>	<b>2.96</b>	<b>0.98</b>

**Site Preparation**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Fugitive Dust					
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				
	Fugitive Dust				8.18	4.29
	Off-Road		23.87	16.17	1.17	1.08
	Total		<b>23.87</b>	<b>16.17</b>	<b>9.35</b>	<b>5.37</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>23.87</b>	<b>16.17</b>	<b>9.35</b>	<b>5.37</b>
Onsite		<b>2022</b>				
	Fugitive Dust		0.00	0.00	8.18	4.29
	Off-Road		23.87	16.17	1.17	1.08
	Total		<b>23.87</b>	<b>16.17</b>	<b>9.35</b>	<b>5.37</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>23.87</b>	<b>16.17</b>	<b>9.35</b>	<b>5.37</b>

**Rough Grading**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Fugitive Dust					
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				
	Fugitive Dust				2.80	1.44
	Off-Road		15.46	11.14	0.76	0.70
	Total		<b>15.46</b>	<b>11.14</b>	<b>3.56</b>	<b>2.14</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>15.46</b>	<b>11.14</b>	<b>3.56</b>	<b>2.14</b>

Onsite		<b>2022</b>				
	Fugitive Dust		0.00	0.00	2.80	1.44
	Off-Road		15.46	11.14	0.76	0.70
	Total		<b>15.46</b>	<b>11.14</b>	<b>3.56</b>	<b>2.14</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>15.46</b>	<b>11.14</b>	<b>3.56</b>	<b>2.14</b>

### Utility Trenching

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						

Onsite		<b>2022</b>				
	Off-Road		7.74	8.11	0.28	0.26
	Total		<b>7.74</b>	<b>8.11</b>	<b>0.28</b>	<b>0.26</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>7.74</b>	<b>8.11</b>	<b>0.28</b>	<b>0.26</b>

Onsite		<b>2022</b>				
	Off-Road		7.74	8.11	0.28	0.26
	Total		<b>7.74</b>	<b>8.11</b>	<b>0.28</b>	<b>0.26</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>7.74</b>	<b>8.11</b>	<b>0.28</b>	<b>0.26</b>

### Fine Grading

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Fugitive Dust					
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						

Onsite		<b>2022</b>				
	Fugitive Dust				3.03	1.46
	Off-Road		13.67	10.87	0.63	0.58
	Total		<b>13.67</b>	<b>10.87</b>	<b>3.66</b>	<b>2.05</b>
Offsite						
	Hauling					
	Vendor					

	Worker Total				
<b>TOTAL</b>			<b>13.67</b>	<b>10.87</b>	<b>3.66</b>
Onsite		<b>2022</b>			
	Fugitive Dust		0.00	0.00	3.03
	Off-Road		13.67	10.87	0.63
	Total		<b>13.67</b>	<b>10.87</b>	<b>3.66</b>
Offsite					
	Hauling Vendor Worker Total				
<b>TOTAL</b>			<b>13.67</b>	<b>10.87</b>	<b>3.66</b>

**Building Construction and Finishing/Landscaping**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Off-Road Total					
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>						

Onsite		<b>2022</b>				
	Off-Road Total		25.35	20.49	1.12	1.03
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>25.35</b>	<b>20.49</b>	<b>1.12</b>	<b>1.03</b>

Onsite		<b>2022</b>				
	Off-Road Total		25.35	20.49	1.12	1.03
Offsite						
	Hauling Vendor Worker Total		0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00
			0.00	0.00	0.00	0.00
	Total		<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>TOTAL</b>			<b>25.35</b>	<b>20.49</b>	<b>1.12</b>	<b>1.03</b>

**Building Construction (6/13/2022-6/14/2022)**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Off-Road Total					
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>						

Onsite		<b>2022</b>				
	Off-Road Total		17.35	13.06	0.83	0.76
Offsite						
	Hauling					



	Vendor Worker Total					
<b>TOTAL</b>			<b>17.35</b>	<b>13.06</b>	<b>0.83</b>	<b>0.76</b>
Onsite		<b>2022</b>				
	Off-Road Total		17.35	13.06	0.83	0.76
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>17.35</b>	<b>13.06</b>	<b>0.83</b>	<b>0.76</b>

**Asphalt Paving**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Off-Road Paving Total					
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				
	Off-Road Paving Total		4.52	3.13	0.17	0.16
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>4.52</b>	<b>3.13</b>	<b>0.17</b>	<b>0.16</b>
Onsite		<b>2022</b>				
	Off-Road Paving Total		4.52	3.13	0.17	0.16
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>4.52</b>	<b>3.13</b>	<b>0.17</b>	<b>0.16</b>

**Building Construction (6/20/2022-10/4/2022)**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Off-Road Total					
Offsite						
	Hauling Vendor Worker Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				

	Off-Road		13.63	11.87	0.61	0.56
Offsite	Total		<b>13.63</b>	<b>11.87</b>	<b>0.61</b>	<b>0.56</b>
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>13.63</b>	<b>11.87</b>	<b>0.61</b>	<b>0.56</b>
Onsite		<b>2022</b>				
	Off-Road		13.63	11.87	0.61	0.56
Offsite	Total		<b>13.63</b>	<b>11.87</b>	<b>0.61</b>	<b>0.56</b>
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>13.63</b>	<b>11.87</b>	<b>0.61</b>	<b>0.56</b>

**Architectural Coating**

			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Architectural Coating					
	Off-Road					
Offsite	Total					
	Hauling Vendor Worker Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>			0.00	0.00
	Architectural Coating					
	Off-Road		1.41	1.81	0.08	0.08
Offsite	Total		<b>1.41</b>	<b>1.81</b>	<b>0.08</b>	<b>0.08</b>
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>1.41</b>	<b>1.81</b>	<b>0.08</b>	<b>0.08</b>
Onsite		<b>2022</b>			0.00	0.00
	Architectural Coating		0.00	0.00	0.00	0.00
	Off-Road		1.41	1.81	0.08	0.08
Offsite	Total		<b>1.41</b>	<b>1.81</b>	<b>0.08</b>	<b>0.08</b>
	Hauling Vendor Worker Total					
<b>TOTAL</b>			<b>1.41</b>	<b>1.81</b>	<b>0.08</b>	<b>0.08</b>

		NOx	CO	PM10 Total	PM2.5 Total
<b>Asphalt Demolition</b>		<b>21</b>	<b>19</b>	<b>0.94</b>	<b>0.89</b>
	<b>≤ 1.00 Acre LST</b>	<b>118</b>	<b>775</b>	<b>4.00</b>	<b>4.00</b>
	<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Asphalt Demolition Debris Haul</b>		<b>14</b>	<b>15</b>	<b>2.96</b>	<b>0.98</b>
	<b>≤ 1.00 Acre LST</b>	<b>118</b>	<b>775</b>	<b>4.00</b>	<b>4.00</b>
	<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>

<b>Site Preparation</b>	<b>24</b>	<b>16</b>	<b>9.35</b>	<b>5.37</b>
<b>2.50 Acre LST</b>	<b>187</b>	<b>1,324</b>	<b>8.16</b>	<b>5.67</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>yes</b>	<b>no</b>
<b>Rough Grading</b>	<b>15</b>	<b>11</b>	<b>3.56</b>	<b>2.14</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Utilities Trenching</b>	<b>8</b>	<b>8</b>	<b>0.28</b>	<b>0.26</b>
<b>≤ 1.00 Acre LST</b>	<b>118</b>	<b>775</b>	<b>4.00</b>	<b>4.00</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Fine Grading</b>	<b>14</b>	<b>11</b>	<b>3.66</b>	<b>2.05</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Building Construction and Finishing/Landscaping</b>	<b>25</b>	<b>20</b>	<b>1.12</b>	<b>1.03</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Building Construction (6/13/2022-6/14/2022)</b>	<b>17</b>	<b>13</b>	<b>0.83</b>	<b>0.76</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Building Construction and Asphalt Paving</b>	<b>22</b>	<b>16</b>	<b>1.00</b>	<b>0.92</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Building Construction (6/20/2022-10/4/2022)</b>	<b>14</b>	<b>12</b>	<b>0.61</b>	<b>0.56</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>
<b>Building Construction and Architectural Coating</b>	<b>15</b>	<b>14</b>	<b>0.69</b>	<b>0.64</b>
<b>1.50 Acre LST</b>	<b>144</b>	<b>974</b>	<b>5.50</b>	<b>4.50</b>
<b>Exceeds LST?</b>	<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>

# Regional Construction Emissions Worksheet (Mitigated):

Site Preparation		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total	
Onsite		<b>2022 Summer</b>						
	Fugitive Dust							
	Off-Road							
	Total							
Offsite								
	Hauling							
	Vendor							
	Worker							
	Total							
<b>TOTAL</b>								
Onsite		<b>2022 Winter</b>						
	Fugitive Dust					7.28	3.74	
	Off-Road	0.46	10.94	19.89	0.03	0.05	0.05	
	Total	<b>0.46</b>	<b>10.94</b>	<b>19.89</b>	<b>0.03</b>	<b>7.33</b>	<b>3.79</b>	
Offsite								
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00	
	Worker	0.06	0.04	0.51	0.00	0.16	0.04	
	Total	<b>0.06</b>	<b>0.13</b>	<b>0.54</b>	<b>0.00</b>	<b>0.17</b>	<b>0.05</b>	
<b>TOTAL</b>		<b>0.53</b>	<b>11.08</b>	<b>20.43</b>	<b>0.03</b>	<b>7.50</b>	<b>3.84</b>	
Onsite		<b>2022</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	7.28	3.74	
	Off-Road	0.46	10.94	19.89	0.03	0.05	0.05	
	Total	<b>0.46</b>	<b>10.94</b>	<b>19.89</b>	<b>0.03</b>	<b>7.33</b>	<b>3.79</b>	
Offsite								
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00	
	Vendor	0.00	0.09	0.03	0.00	0.01	0.00	
	Worker	0.06	0.04	0.51	0.00	0.16	0.04	
	Total	<b>0.06</b>	<b>0.13</b>	<b>0.54</b>	<b>0.00</b>	<b>0.17</b>	<b>0.05</b>	
<b>TOTAL</b>		<b>0.53</b>	<b>11.08</b>	<b>20.43</b>	<b>0.03</b>	<b>7.50</b>	<b>3.84</b>	

<b>Site Preparation</b>	<b>1</b>	<b>11</b>	<b>20</b>	<b>0</b>	<b>8</b>	<b>4</b>
<b>MAX DAILY</b>	<b>1</b>	<b>11</b>	<b>20</b>	<b>0</b>	<b>8</b>	<b>4</b>
<b>Regional Thresholds</b>	<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

# Regional Construction Emissions Worksheet (Mitigated):

Site Preparation			NOx	CO	PM10 Total	PM2.5 Total
Onsite		<b>2022</b>				
	Fugitive Dust					
	Off-Road					
	Total					
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>						
Onsite		<b>2022</b>				
	Fugitive Dust				7.28	3.74
	Off-Road		10.94	19.89	0.05	0.05
	Total		<b>10.94</b>	<b>19.89</b>	<b>7.33</b>	<b>3.79</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>10.94</b>	<b>19.89</b>	<b>7.33</b>	<b>3.79</b>
Onsite		<b>2022</b>				
	Fugitive Dust		0.00	0.00	7.28	3.74
	Off-Road		10.94	19.89	0.05	0.05
	Total		<b>10.94</b>	<b>19.89</b>	<b>7.33</b>	<b>3.79</b>
Offsite						
	Hauling					
	Vendor					
	Worker					
	Total					
<b>TOTAL</b>			<b>10.94</b>	<b>19.89</b>	<b>7.33</b>	<b>3.79</b>
<b>3 Site Preparation</b>			<b>11</b>	<b>20</b>	<b>7.33</b>	<b>3.79</b>
	<b>2.50 Acre LST</b>		<b>187</b>	<b>1,324</b>	<b>8.16</b>	<b>5.67</b>
	<b>Exceeds LST?</b>		<b>no</b>	<b>no</b>	<b>no</b>	<b>no</b>

# GHG Emissions Inventory

Source: CalEEMod, Version 2020.4.0

MTCO<sub>2</sub>e=metric tons of carbon dioxide equivalent.

## Construction

	<u>MTCO<sub>2</sub>e</u>
Phase 1 - Year 2022 (Worst-Case Model Run)	283
Phase 2 - Year 2024	283
Phase 3 - Year 2026	283
<b>Total Construction</b>	<b>848</b>
<b>30-Year Amortization<sup>1</sup></b>	<b>28</b>

Notes

1

Total construction emissions are amortized over 30 years per South Coast AQMD Working Group methodology; South Coast AQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2).

<sup>2</sup> Assumes same amount of MTCO<sub>2</sub>e as year 2022

## Net Operation

	<u>MTCO<sub>2</sub>e</u>	<u>Percent of Emissions</u>
Energy <sup>1</sup>	4	13%
30-Yr Amortized Construction Emissions	28	87%
<b>Total</b>	<b>32</b>	<b>100%</b>
South Coast AQMD Working Group Threshold	3,000	
<b>Exceed Threshold?</b>	<b>No</b>	

Notes

<sup>1</sup> Includes emissions from lighting use. See assumptions file for calculations.

# **CalEEMod Construction Model**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

**Redlands East Valley HS Field  
San Bernardino-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	5.42	1000sqft	0.00	5,417.00	0
Other Non-Asphalt Surfaces	177.06	1000sqft	4.06	177,063.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	509.98	<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 - Based on 2020 Sustainability Report.

Land Use - Based on applicant info. (see assumptions file).

Construction Phase - Compiled "worst-case" scenario of the Proposed Phases 1-3 for year 2022 to model highest peak daily emissions (see assumptions file).

Off-road Equipment -

Off-road Equipment - Based on equipment mix provided by District, used default HP for Terex Jaw Plant Crusher as worst-case scenario

Off-road Equipment - Equipment provided by applicant, see assumptions file

Off-road Equipment - Based on equipment mix provided by District (see assumptions file)

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District



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Off-road Equipment - Based on equipment mix provided by District

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Trips and VMT - Assume 2 vt/day/water truck, accounted for dump trucks based on applicant's equipment mix, see assumptions file

Demolition -

Grading -

Architectural Coating - Based on applicant info. (see assumptions file), existing parking lot will remain and be re-striped.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,624.00	1,728.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	3.00
tblConstructionPhase	NumDays	230.00	103.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	3.00
tblLandUse	LandUseSquareFeet	5,420.00	5,417.00
tblLandUse	LandUseSquareFeet	177,060.00	177,063.00
tblLandUse	LotAcreage	0.12	0.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	187.00	255.00

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tblOffRoadEquipment	HorsePower	130.00	225.00
tblOffRoadEquipment	HorsePower	80.00	49.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	217.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	217.00
tblOffRoadEquipment	HorsePower	85.00	336.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	130.00	225.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	80.00	49.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	217.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	217.00
tblOffRoadEquipment	HorsePower	203.00	193.00

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tblOffRoadEquipment	HorsePower	203.00	193.00
tblOffRoadEquipment	HorsePower	203.00	193.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	HaulingTripNumber	247.00	250.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	30.00	40.00
tblTripsAndVMT	VendorTripNumber	0.00	14.00



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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-5-2022	6-4-2022	0.5256	0.5256
2	6-5-2022	9-4-2022	1.6582	1.6582
3	9-5-2022	9-30-2022	0.4912	0.4912
		Highest	1.6582	1.6582

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demolition	Demolition	3/5/2022	3/19/2022	5	10	a
2	Asphalt Demolition Debris Haul	Demolition	3/20/2022	4/2/2022	5	10	b
3	Site Preparation	Site Preparation	4/3/2022	4/9/2022	5	5	c
4	Rough Grading	Grading	4/10/2022	4/16/2022	5	5	d
5	Utility Trenching	Trenching	5/5/2022	5/18/2022	5	10	e
6	Fine Grading	Grading	5/28/2022	6/5/2022	5	5	f
7	Building Construction and Finishing/Landscaping	Building Construction	6/8/2022	6/12/2022	5	3	g
8	Building Construction	Building Construction	6/13/2022	11/2/2022	5	103	h
9	Asphalt Paving	Paving	6/15/2022	6/19/2022	5	3	i
10	Architectural Coating	Architectural Coating	10/5/2022	11/2/2022	5	21	j

**Acres of Grading (Site Preparation Phase): 7.5**

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

**Acres of Paving: 4.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,126; Non-Residential Outdoor: 2,709; Striped Parking Area: 1,728 (Architectural**

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**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Crushing/Proc. Equipment	1	8.00	336	0.78
Asphalt Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Excavators	1	8.00	271	0.38
Asphalt Demolition	Rollers	1	8.00	121	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Rubber Tired Dozers	1	8.00	135	0.40
Asphalt Demolition	Rubber Tired Loaders	1	8.00	193	0.36
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	1	8.00	271	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	1	8.00	135	0.40
Site Preparation	Aerial Lifts			63	0.31
Site Preparation	Rollers	1	8.00	121	0.38
Site Preparation	Rubber Tired Dozers	2	8.00	135	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	217	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	193	0.36
Site Preparation	Skid Steer Loaders	1	8.00	111	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	0	8.00	187	0.41
Rough Grading	Rollers	1	8.00	121	0.38
Rough Grading	Rubber Tired Dozers	1	8.00	135	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	217	0.40
Rough Grading	Skid Steer Loaders	1	8.00	111	0.37

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Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utility Trenching	Excavators	1	8.00	271	0.38
Utility Trenching	Rollers	1	8.00	121	0.38
Utility Trenching	Rubber Tired Loaders	1	8.00	193	0.36
Utility Trenching	Skid Steer Loaders	1	8.00	111	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	255	0.41
Fine Grading	Rollers	1	8.00	121	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	135	0.40
Fine Grading	Skid Steer Loaders	1	8.00	111	0.37
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction and Finishing/Landscaping	Cranes	0	7.00	231	0.29
Building Construction and Finishing/Landscaping	Excavators	2	8.00	271	0.38
Building Construction and Finishing/Landscaping	Forklifts	0	8.00	89	0.20
Building Construction and Finishing/Landscaping	Generator Sets	0	8.00	84	0.74
Building Construction and Finishing/Landscaping	Pavers	1	8.00	225	0.42
Building Construction and Finishing/Landscaping	Rollers	1	8.00	121	0.38
Building Construction and Finishing/Landscaping	Rollers	1	8.00	49	0.38
Building Construction and Finishing/Landscaping	Rubber Tired Dozers	1	8.00	135	0.40
Building Construction and Finishing/Landscaping	Rubber Tired Dozers	1	8.00	217	0.40
Building Construction and Finishing/Landscaping	Skid Steer Loaders	2	8.00	111	0.37
Building Construction and Finishing/Landscaping	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction and Finishing/Landscaping	Welders	0	8.00	46	0.45
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Excavators	1	8.00	271	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74



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Building Construction	Rollers	1	8.00	121	0.38
Building Construction	Rubber Tired Dozers	1	8.00	135	0.40
Building Construction	Rubber Tired Dozers	1	8.00	217	0.40
Building Construction	Skid Steer Loaders	1	8.00	111	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Asphalt Paving	Pavers	1	8.00	225	0.42
Asphalt Paving	Paving Equipment	0	6.00	132	0.36
Asphalt Paving	Rollers	1	8.00	49	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Asphalt Demolition Debris Haul	Crushing/Proc. Equipment	1	8.00	85	0.78
Asphalt Demolition Debris Haul	Rollers	1	8.00	121	0.38
Asphalt Demolition Debris Haul	Skid Steer Loaders	1	8.00	111	0.37

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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
Asphalt Demolition	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition	5	13.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Debris Haul	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	9	77.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction and Finishing/Landscaping	5	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	2	5.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating										

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Asphalt Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0144	0.1067	0.0929	2.7000e-004	4.6800e-003	4.6800e-003	4.6800e-003	4.4700e-003	4.4700e-003	4.4700e-003	0.0000	25.1943	25.1943	4.0000e-003	0.0000	25.2943
<b>Total</b>	<b>0.0144</b>	<b>0.1067</b>	<b>0.0929</b>	<b>2.7000e-004</b>	<b>4.6800e-003</b>	<b>4.6800e-003</b>	<b>4.6800e-003</b>	<b>4.4700e-003</b>	<b>4.4700e-003</b>	<b>4.4700e-003</b>	<b>0.0000</b>	<b>25.1943</b>	<b>25.1943</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>25.2943</b>

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**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.6000e-004	1.6000e-004	0.0000	6.0000e-005	1.0000e-005	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1816	0.1816	0.0000	3.0000e-005	0.1897
Worker	2.8000e-004	2.2000e-004	2.6600e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6554	0.6554	2.0000e-005	2.0000e-005	0.6615
<b>Total</b>	<b>3.0000e-004</b>	<b>6.8000e-004</b>	<b>2.8200e-003</b>	<b>1.0000e-005</b>	<b>8.8000e-004</b>	<b>1.0000e-005</b>	<b>9.0000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.8370</b>	<b>0.8370</b>	<b>2.0000e-005</b>	<b>5.0000e-005</b>	<b>0.8512</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	0.0144	0.1067	0.0929	2.7000e-004		4.6800e-003	4.6800e-003		4.4700e-003	4.4700e-003	0.0000	25.1943	25.1943	4.0000e-003	0.0000	25.2943
<b>Total</b>	<b>0.0144</b>	<b>0.1067</b>	<b>0.0929</b>	<b>2.7000e-004</b>		<b>4.6800e-003</b>	<b>4.6800e-003</b>		<b>4.4700e-003</b>	<b>4.4700e-003</b>	<b>0.0000</b>	<b>25.1943</b>	<b>25.1943</b>	<b>4.0000e-003</b>	<b>0.0000</b>	<b>25.2943</b>

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**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	4.6000e-004	1.6000e-004	0.0000	6.0000e-005	1.0000e-005	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1816	0.1816	0.0000	3.0000e-005	0.1897
Worker	2.8000e-004	2.2000e-004	2.6600e-003	1.0000e-005	7.6000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6554	0.6554	2.0000e-005	2.0000e-005	0.6615
<b>Total</b>	<b>3.0000e-004</b>	<b>6.8000e-004</b>	<b>2.8200e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.8370</b>	<b>0.8370</b>	<b>2.0000e-005</b>	<b>5.0000e-005</b>	<b>0.8512</b>

**3.3 Asphalt Demolition Debris Haul - 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					0.0268	0.0000	0.0268	4.0500e-003	0.0000	4.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6700e-003	0.0680	0.0726	1.4000e-004		3.3800e-003	3.3800e-003		3.1800e-003	3.1800e-003	0.0000	12.1912	12.1912	3.1600e-003	0.0000	12.2703
<b>Total</b>	<b>7.6700e-003</b>	<b>0.0680</b>	<b>0.0726</b>	<b>1.4000e-004</b>	<b>0.0268</b>	<b>3.3800e-003</b>	<b>0.0301</b>	<b>4.0500e-003</b>	<b>3.1800e-003</b>	<b>7.2300e-003</b>	<b>0.0000</b>	<b>12.1912</b>	<b>12.1912</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>12.2703</b>

**Unmitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0180	4.4900e-003	7.0000e-005	2.1500e-003	1.8000e-004	2.3300e-003	5.9000e-004	1.7000e-004	7.6000e-004	0.0000	7.2650	7.2650	3.1000e-004	1.1500e-003	7.6159
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.9000e-004	2.3000e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5680	0.5680	2.0000e-005	2.0000e-005	0.5733
<b>Total</b>	<b>7.0000e-004</b>	<b>0.0182</b>	<b>6.7900e-003</b>	<b>8.0000e-005</b>	<b>2.8600e-003</b>	<b>1.8000e-004</b>	<b>3.0500e-003</b>	<b>7.8000e-004</b>	<b>1.7000e-004</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>7.8331</b>	<b>7.8331</b>	<b>3.3000e-004</b>	<b>1.1700e-003</b>	<b>8.1892</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0114	0.0000	0.0114	1.7300e-003	0.0000	1.7300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6700e-003	0.0680	0.0726	1.4000e-004		3.3800e-003	3.3800e-003		3.1800e-003	3.1800e-003	0.0000	12.1912	12.1912	3.1600e-003	0.0000	12.2703
<b>Total</b>	<b>7.6700e-003</b>	<b>0.0680</b>	<b>0.0726</b>	<b>1.4000e-004</b>	<b>0.0114</b>	<b>3.3800e-003</b>	<b>0.0148</b>	<b>1.7300e-003</b>	<b>3.1800e-003</b>	<b>4.9100e-003</b>	<b>0.0000</b>	<b>12.1912</b>	<b>12.1912</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>12.2703</b>

**Mitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0180	4.4900e-003	7.0000e-005	2.0100e-003	1.8000e-004	2.1900e-003	5.6000e-004	1.7000e-004	7.3000e-004	0.0000	7.2650	7.2650	3.1000e-004	1.1500e-003	7.6159
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.9000e-004	2.3000e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5680	0.5680	2.0000e-005	2.0000e-005	0.5733
<b>Total</b>	<b>7.0000e-004</b>	<b>0.0182</b>	<b>6.7900e-003</b>	<b>8.0000e-005</b>	<b>2.6700e-003</b>	<b>1.8000e-004</b>	<b>2.8500e-003</b>	<b>7.4000e-004</b>	<b>1.7000e-004</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>7.8331</b>	<b>7.8331</b>	<b>3.3000e-004</b>	<b>1.1700e-003</b>	<b>8.1892</b>

**3.4 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0491	0.0000	0.0491	0.0253	0.0000	0.0253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0616	0.0412	8.0000e-005		3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003	0.0000	6.6452	6.6452	2.1500e-003	0.0000	6.6990
<b>Total</b>	<b>6.0200e-003</b>	<b>0.0616</b>	<b>0.0412</b>	<b>8.0000e-005</b>	<b>0.0491</b>	<b>3.0200e-003</b>	<b>0.0522</b>	<b>0.0253</b>	<b>2.7800e-003</b>	<b>0.0280</b>	<b>0.0000</b>	<b>6.6452</b>	<b>6.6452</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>6.6990</b>

**Unmitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0908	0.0908	0.0000	1.0000e-005	0.0949
Worker	1.4000e-004	1.1000e-004	1.3300e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3277	0.3277	1.0000e-005	1.0000e-005	0.3308
<b>Total</b>	<b>1.5000e-004</b>	<b>3.4000e-004</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4185</b>	<b>0.4185</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.4256</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0210	0.0000	0.0210	0.0108	0.0000	0.0108	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0200e-003	0.0616	0.0412	8.0000e-005		3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003	0.0000	6.6452	6.6452	2.1500e-003	0.0000	6.6990
<b>Total</b>	<b>6.0200e-003</b>	<b>0.0616</b>	<b>0.0412</b>	<b>8.0000e-005</b>	<b>0.0210</b>	<b>3.0200e-003</b>	<b>0.0240</b>	<b>0.0108</b>	<b>2.7800e-003</b>	<b>0.0136</b>	<b>0.0000</b>	<b>6.6452</b>	<b>6.6452</b>	<b>2.1500e-003</b>	<b>0.0000</b>	<b>6.6990</b>

**Mitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0908	0.0908	0.0000	1.0000e-005	0.0949
Worker	1.4000e-004	1.1000e-004	1.3300e-003	0.0000	3.8000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3277	0.3277	1.0000e-005	1.0000e-005	0.3308
<b>Total</b>	<b>1.5000e-004</b>	<b>3.4000e-004</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.4185</b>	<b>0.4185</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.4256</b>

**3.5 Rough 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					0.0164	0.0000	0.0164	8.4200e-003	0.0000	8.4200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0406	0.0286	5.0000e-005		2.0000e-003	2.0000e-003		1.8400e-003	1.8400e-003	0.0000	4.3156	4.3156	1.4000e-003	0.0000	4.3505
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0406</b>	<b>0.0286</b>	<b>5.0000e-005</b>	<b>0.0164</b>	<b>2.0000e-003</b>	<b>0.0184</b>	<b>8.4200e-003</b>	<b>1.8400e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>4.3156</b>	<b>4.3156</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>4.3505</b>

**Unmitigated Construction Off-Site**



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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0908	0.0908	0.0000	1.0000e-005	0.0949
Worker	9.0000e-005	7.0000e-005	8.9000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2185	0.2185	1.0000e-005	1.0000e-005	0.2205
<b>Total</b>	<b>1.0000e-004</b>	<b>3.0000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3093</b>	<b>0.3093</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.3154</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					7.0000e-003	0.0000	7.0000e-003	3.6000e-003	0.0000	3.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0406	0.0286	5.0000e-005		2.0000e-003	2.0000e-003		1.8400e-003	1.8400e-003	0.0000	4.3156	4.3156	1.4000e-003	0.0000	4.3505
<b>Total</b>	<b>3.9000e-003</b>	<b>0.0406</b>	<b>0.0286</b>	<b>5.0000e-005</b>	<b>7.0000e-003</b>	<b>2.0000e-003</b>	<b>9.0000e-003</b>	<b>3.6000e-003</b>	<b>1.8400e-003</b>	<b>5.4400e-003</b>	<b>0.0000</b>	<b>4.3156</b>	<b>4.3156</b>	<b>1.4000e-003</b>	<b>0.0000</b>	<b>4.3505</b>

**Mitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0908	0.0908	0.0000	1.0000e-005	0.0949
Worker	9.0000e-005	7.0000e-005	8.9000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2185	0.2185	1.0000e-005	1.0000e-005	0.2205
<b>Total</b>	<b>1.0000e-004</b>	<b>3.0000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3093</b>	<b>0.3093</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.3154</b>

**3.6 Utility Trenching - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8100e-003	0.0387	0.0406	1.1000e-004		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	9.7698	9.7698	3.1600e-003	0.0000	9.8488
<b>Total</b>	<b>3.8100e-003</b>	<b>0.0387</b>	<b>0.0406</b>	<b>1.1000e-004</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>9.7698</b>	<b>9.7698</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>9.8488</b>

**Unmitigated Construction Off-Site**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4369	0.4369	1.0000e-005	1.0000e-005	0.4410
<b>Total</b>	<b>1.9000e-004</b>	<b>1.5000e-004</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.4369</b>	<b>0.4369</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4410</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8100e-003	0.0387	0.0406	1.1000e-004		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	9.7698	9.7698	3.1600e-003	0.0000	9.8488
<b>Total</b>	<b>3.8100e-003</b>	<b>0.0387</b>	<b>0.0406</b>	<b>1.1000e-004</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.3000e-003</b>	<b>1.3000e-003</b>	<b>0.0000</b>	<b>9.7698</b>	<b>9.7698</b>	<b>3.1600e-003</b>	<b>0.0000</b>	<b>9.8488</b>

**Mitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7700e-003	0.0000	5.1000e-004	0.0000	5.1000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4369	0.4369	1.0000e-005	1.0000e-005	0.4410
<b>Total</b>	<b>1.9000e-004</b>	<b>1.5000e-004</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4369</b>	<b>0.4369</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.4410</b>

**3.7 Fine 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					0.0177	0.0000	0.0177	8.5600e-003	0.0000	8.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0342	0.0272	5.0000e-005		1.5800e-003	1.5800e-003		1.4600e-003	1.4600e-003	0.0000	4.6414	4.6414	1.5000e-003	0.0000	4.6789
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0342</b>	<b>0.0272</b>	<b>5.0000e-005</b>	<b>0.0177</b>	<b>1.5800e-003</b>	<b>0.0193</b>	<b>8.5600e-003</b>	<b>1.4600e-003</b>	<b>0.0100</b>	<b>0.0000</b>	<b>4.6414</b>	<b>4.6414</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.6789</b>

**Unmitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0908	0.0908	0.0000	1.0000e-005	0.0949
Worker	9.0000e-005	7.0000e-005	8.9000e-004	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2185	0.2185	1.0000e-005	1.0000e-005	0.2205
<b>Total</b>	<b>1.0000e-004</b>	<b>3.0000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>3.1000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3093</b>	<b>0.3093</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.3154</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					7.5700e-003	0.0000	7.5700e-003	3.6600e-003	0.0000	3.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0342	0.0272	5.0000e-005		1.5800e-003	1.5800e-003		1.4600e-003	1.4600e-003	0.0000	4.6414	4.6414	1.5000e-003	0.0000	4.6789
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0342</b>	<b>0.0272</b>	<b>5.0000e-005</b>	<b>7.5700e-003</b>	<b>1.5800e-003</b>	<b>9.1500e-003</b>	<b>3.6600e-003</b>	<b>1.4600e-003</b>	<b>5.1200e-003</b>	<b>0.0000</b>	<b>4.6414</b>	<b>4.6414</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>4.6789</b>

**Mitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.3000e-004	8.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0908	0.0908	0.0000	1.0000e-005	0.0949
Worker	9.0000e-005	7.0000e-005	8.9000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2185	0.2185	1.0000e-005	1.0000e-005	0.2205
<b>Total</b>	<b>1.0000e-004</b>	<b>3.0000e-004</b>	<b>9.7000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.3093</b>	<b>0.3093</b>	<b>1.0000e-005</b>	<b>2.0000e-005</b>	<b>0.3154</b>

**3.8 Building Construction and Finishing/Landscaping - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9300e-003	0.0392	0.0312	8.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	6.6831	6.6831	2.1600e-003	0.0000	6.7371
<b>Total</b>	<b>3.9300e-003</b>	<b>0.0392</b>	<b>0.0312</b>	<b>8.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>6.6831</b>	<b>6.6831</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.7371</b>

**Unmitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	2.7600e-003	9.8000e-004	1.0000e-005	3.8000e-004	3.0000e-005	4.1000e-004	1.1000e-004	3.0000e-005	1.4000e-004	0.0000	1.0895	1.0895	3.0000e-005	1.6000e-004	1.1383
Worker	4.4000e-004	3.4000e-004	4.0900e-003	1.0000e-005	1.2700e-003	1.0000e-005	1.2700e-003	3.4000e-004	1.0000e-005	3.4000e-004	0.0000	1.0093	1.0093	3.0000e-005	3.0000e-005	1.0188
<b>Total</b>	<b>5.4000e-004</b>	<b>3.1000e-003</b>	<b>5.0700e-003</b>	<b>2.0000e-005</b>	<b>1.6500e-003</b>	<b>4.0000e-005</b>	<b>1.6800e-003</b>	<b>4.5000e-004</b>	<b>4.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.0988</b>	<b>2.0988</b>	<b>6.0000e-005</b>	<b>1.9000e-004</b>	<b>2.1571</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.9300e-003	0.0392	0.0312	8.0000e-005		1.7400e-003	1.7400e-003		1.6000e-003	1.6000e-003	0.0000	6.6831	6.6831	2.1600e-003	0.0000	6.7371
<b>Total</b>	<b>3.9300e-003</b>	<b>0.0392</b>	<b>0.0312</b>	<b>8.0000e-005</b>		<b>1.7400e-003</b>	<b>1.7400e-003</b>		<b>1.6000e-003</b>	<b>1.6000e-003</b>	<b>0.0000</b>	<b>6.6831</b>	<b>6.6831</b>	<b>2.1600e-003</b>	<b>0.0000</b>	<b>6.7371</b>

**Mitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-004	2.7600e-003	9.8000e-004	1.0000e-005	3.5000e-004	3.0000e-005	3.9000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.0895	1.0895	3.0000e-005	1.6000e-004	1.1383
Worker	4.4000e-004	3.4000e-004	4.0900e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1700e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0093	1.0093	3.0000e-005	3.0000e-005	1.0188
<b>Total</b>	<b>5.4000e-004</b>	<b>3.1000e-003</b>	<b>5.0700e-003</b>	<b>2.0000e-005</b>	<b>1.5200e-003</b>	<b>4.0000e-005</b>	<b>1.5600e-003</b>	<b>4.1000e-004</b>	<b>4.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>2.0988</b>	<b>2.0988</b>	<b>6.0000e-005</b>	<b>1.9000e-004</b>	<b>2.1571</b>

**3.9 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	0.0923	0.9333	0.6890	1.4700e-003		0.0445	0.0445		0.0409	0.0409	0.0000	128.7596	128.7596	0.0416	0.0000	129.8007
<b>Total</b>	<b>0.0923</b>	<b>0.9333</b>	<b>0.6890</b>	<b>1.4700e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0409</b>	<b>0.0409</b>	<b>0.0000</b>	<b>128.7596</b>	<b>128.7596</b>	<b>0.0416</b>	<b>0.0000</b>	<b>129.8007</b>

**Unmitigated Construction Off-Site**



Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	2.6300e-003	0.0712	0.0252	2.9000e-004	9.7400e-003	8.1000e-004	0.0106	2.8100e-003	7.7000e-004	3.5800e-003	0.0000	28.0547	28.0547	7.6000e-004	4.1500e-003	29.3117
Worker	0.0149	0.0117	0.1405	3.8000e-004	0.0435	2.3000e-004	0.0437	0.0116	2.1000e-004	0.0118	0.0000	34.6535	34.6535	9.9000e-004	1.0000e-003	34.9770
<b>Total</b>	<b>0.0176</b>	<b>0.0829</b>	<b>0.1658</b>	<b>6.7000e-004</b>	<b>0.0532</b>	<b>1.0400e-003</b>	<b>0.0543</b>	<b>0.0144</b>	<b>9.8000e-004</b>	<b>0.0153</b>	<b>0.0000</b>	<b>62.7082</b>	<b>62.7082</b>	<b>1.7500e-003</b>	<b>5.1500e-003</b>	<b>64.2888</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	0.0923	0.9333	0.6890	1.4700e-003		0.0445	0.0445		0.0409	0.0409	0.0000	128.7595	128.7595	0.0416	0.0000	129.8006
<b>Total</b>	<b>0.0923</b>	<b>0.9333</b>	<b>0.6890</b>	<b>1.4700e-003</b>		<b>0.0445</b>	<b>0.0445</b>		<b>0.0409</b>	<b>0.0409</b>	<b>0.0000</b>	<b>128.7595</b>	<b>128.7595</b>	<b>0.0416</b>	<b>0.0000</b>	<b>129.8006</b>

Mitigated Construction Off-Site

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
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	2.6300e-003	0.0712	0.0252	2.9000e-004	9.1200e-003	8.1000e-004	9.9300e-003	2.6600e-003	7.7000e-004	3.4300e-003	0.0000	28.0547	28.0547	7.6000e-004	4.1500e-003	29.3117
Worker	0.0149	0.0117	0.1405	3.8000e-004	0.0401	2.3000e-004	0.0403	0.0107	2.1000e-004	0.0109	0.0000	34.6535	34.6535	9.9000e-004	1.0000e-003	34.9770
<b>Total</b>	<b>0.0176</b>	<b>0.0829</b>	<b>0.1658</b>	<b>6.7000e-004</b>	<b>0.0492</b>	<b>1.0400e-003</b>	<b>0.0503</b>	<b>0.0134</b>	<b>9.8000e-004</b>	<b>0.0144</b>	<b>0.0000</b>	<b>62.7082</b>	<b>62.7082</b>	<b>1.7500e-003</b>	<b>5.1500e-003</b>	<b>64.2888</b>

**3.10 Asphalt 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	7.1000e-004	6.7800e-003	4.7000e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.4000e-004	2.4000e-004	0.0000	1.3063	1.3063	4.2000e-004	0.0000	1.3168
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>7.1000e-004</b>	<b>6.7800e-003</b>	<b>4.7000e-003</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>1.3063</b>	<b>1.3063</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>1.3168</b>

**Unmitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	9.7000e-004	3.4000e-004	0.0000	1.3000e-004	1.0000e-005	1.4000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3813	0.3813	1.0000e-005	6.0000e-005	0.3984
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0655	0.0655	0.0000	0.0000	0.0662
<b>Total</b>	<b>7.0000e-005</b>	<b>9.9000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4469</b>	<b>0.4469</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.4646</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	7.1000e-004	6.7800e-003	4.7000e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.4000e-004	2.4000e-004	0.0000	1.3063	1.3063	4.2000e-004	0.0000	1.3168
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>7.1000e-004</b>	<b>6.7800e-003</b>	<b>4.7000e-003</b>	<b>1.0000e-005</b>		<b>2.6000e-004</b>	<b>2.6000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>1.3063</b>	<b>1.3063</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>1.3168</b>

**Mitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	9.7000e-004	3.4000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.3813	0.3813	1.0000e-005	6.0000e-005	0.3984
Worker	3.0000e-005	2.0000e-005	2.7000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0655	0.0655	0.0000	0.0000	0.0662
<b>Total</b>	<b>7.0000e-005</b>	<b>9.9000e-004</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4469</b>	<b>0.4469</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.4646</b>

**3.11 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0291					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1500e-003	0.0148	0.0190	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.6809	2.6809	1.7000e-004	0.0000	2.6853
<b>Total</b>	<b>0.0313</b>	<b>0.0148</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.6853</b>

**Unmitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.7000e-004	5.5800e-003	2.0000e-005	1.7300e-003	1.0000e-005	1.7400e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.3764	1.3764	4.0000e-005	4.0000e-005	1.3892
<b>Total</b>	<b>5.9000e-004</b>	<b>4.7000e-004</b>	<b>5.5800e-003</b>	<b>2.0000e-005</b>	<b>1.7300e-003</b>	<b>1.0000e-005</b>	<b>1.7400e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.3764</b>	<b>1.3764</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3892</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	0.0291					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1500e-003	0.0148	0.0190	3.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	2.6809	2.6809	1.7000e-004	0.0000	2.6853
<b>Total</b>	<b>0.0313</b>	<b>0.0148</b>	<b>0.0190</b>	<b>3.0000e-005</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>		<b>8.6000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>2.6809</b>	<b>2.6809</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>2.6853</b>

**Mitigated Construction Off-Site**

Redlands East Valley HS Field - San Bernardino-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.7000e-004	5.5800e-003	2.0000e-005	1.5900e-003	1.0000e-005	1.6000e-003	4.3000e-004	1.0000e-005	4.3000e-004	0.0000	1.3764	1.3764	4.0000e-005	4.0000e-005	1.3892
<b>Total</b>	<b>5.9000e-004</b>	<b>4.7000e-004</b>	<b>5.5800e-003</b>	<b>2.0000e-005</b>	<b>1.5900e-003</b>	<b>1.0000e-005</b>	<b>1.6000e-003</b>	<b>4.3000e-004</b>	<b>1.0000e-005</b>	<b>4.3000e-004</b>	<b>0.0000</b>	<b>1.3764</b>	<b>1.3764</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.3892</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Redlands East Valley HS Field  
San Bernardino-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	5.42	1000sqft	0.00	5,417.00	0
Other Non-Asphalt Surfaces	177.06	1000sqft	4.06	177,063.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	509.98	<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 - Based on 2020 Sustainability Report.

Land Use - Based on applicant info. (see assumptions file).

Construction Phase - Compiled "worst-case" scenario of the Proposed Phases 1-3 for year 2022 to model highest peak daily emissions (see assumptions file).

Off-road Equipment -

Off-road Equipment - Based on equipment mix provided by District, used default HP for Terex Jaw Plant Crusher as worst-case scenario

Off-road Equipment - Equipment provided by applicant, see assumptions file

Off-road Equipment - Based on equipment mix provided by District (see assumptions file)

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Trips and VMT - Assume 2 vt/day/water truck, accounted for dump trucks based on applicant's equipment mix, see assumptions file

Demolition -

Grading -

Architectural Coating - Based on applicant info. (see assumptions file), existing parking lot will remain and be re-striped.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,624.00	1,728.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	3.00
tblConstructionPhase	NumDays	230.00	103.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	3.00
tblLandUse	LandUseSquareFeet	5,420.00	5,417.00
tblLandUse	LandUseSquareFeet	177,060.00	177,063.00
tblLandUse	LotAcreage	0.12	0.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	187.00	255.00



Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

tbiOffRoadEquipment	HorsePower	130.00	225.00
tbiOffRoadEquipment	HorsePower	80.00	49.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	85.00	336.00
tbiOffRoadEquipment	HorsePower	158.00	271.00
tbiOffRoadEquipment	HorsePower	158.00	271.00
tbiOffRoadEquipment	HorsePower	158.00	271.00
tbiOffRoadEquipment	HorsePower	130.00	225.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	49.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	203.00	193.00

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

tbiOffRoadEquipment	HorsePower	203.00	193.00
tbiOffRoadEquipment	HorsePower	203.00	193.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	LoadFactor	0.38	0.38
tbiOffRoadEquipment	LoadFactor	0.37	0.37
tbiOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tbiOffRoadEquipment	OffRoadEquipmentType		Rollers
tbiOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	UsageHours	6.00	8.00
tbiProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tbiTripsAndVMT	HaulingTripNumber	247.00	250.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	30.00	40.00
tbiTripsAndVMT	VendorTripNumber	0.00	14.00



Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demolition	Demolition	3/5/2022	3/19/2022	5	10	a
2	Asphalt Demolition Debris Haul	Demolition	3/20/2022	4/2/2022	5	10	b
3	Site Preparation	Site Preparation	4/3/2022	4/9/2022	5	5	c
4	Rough Grading	Grading	4/10/2022	4/16/2022	5	5	d
5	Utility Trenching	Trenching	5/5/2022	5/18/2022	5	10	e
6	Fine Grading	Grading	5/28/2022	6/5/2022	5	5	f
7	Building Construction and Finishing/Landscaping	Building Construction	6/8/2022	6/12/2022	5	3	g
8	Building Construction	Building Construction	6/13/2022	11/2/2022	5	103	h
9	Asphalt Paving	Paving	6/15/2022	6/19/2022	5	3	i
10	Architectural Coating	Architectural Coating	10/5/2022	11/2/2022	5	21	j

**Acres of Grading (Site Preparation Phase): 7.5**

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

**Acres of Paving: 4.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,126; Non-Residential Outdoor: 2,709; Striped Parking Area: 1,728 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Crushing/Proc. Equipment	1	8.00	336	0.78
Asphalt Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Excavators	1	8.00	271	0.38

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

Asphalt Demolition	Rollers	1	8.00	121	0.38
Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Rubber Tired Dozers	1	8.00	135	0.40
Asphalt Demolition	Rubber Tired Loaders	1	8.00	193	0.36
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	1	8.00	271	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	1	8.00	135	0.40
Site Preparation	Aerial Lifts			63	0.31
Site Preparation	Rollers	1	8.00	121	0.38
Site Preparation	Rubber Tired Dozers	2	8.00	135	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	217	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	193	0.36
Site Preparation	Skid Steer Loaders	1	8.00	111	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	0	8.00	187	0.41
Rough Grading	Rollers	1	8.00	121	0.38
Rough Grading	Rubber Tired Dozers	1	8.00	135	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	217	0.40
Rough Grading	Skid Steer Loaders	1	8.00	111	0.37
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utility Trenching	Excavators	1	8.00	271	0.38
Utility Trenching	Rollers	1	8.00	121	0.38
Utility Trenching	Rubber Tired Loaders	1	8.00	193	0.36
Utility Trenching	Skid Steer Loaders	1	8.00	111	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	255	0.41

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

Fine Grading	Rollers	1	8.00	121	0.38
Fine Grading	Rubber Tired Dozers	1	8.00	135	0.40
Fine Grading	Skid Steer Loaders	1	8.00	111	0.37
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction and Finishing/Landscaping	Cranes	0	7.00	231	0.29
Building Construction and Finishing/Landscaping	Excavators	2	8.00	271	0.38
Building Construction and Finishing/Landscaping	Forklifts	0	8.00	89	0.20
Building Construction and Finishing/Landscaping	Generator Sets	0	8.00	84	0.74
Building Construction and Finishing/Landscaping	Pavers	1	8.00	225	0.42
Building Construction and Finishing/Landscaping	Rollers	1	8.00	121	0.38
Building Construction and Finishing/Landscaping	Rollers	1	8.00	49	0.38
Building Construction and Finishing/Landscaping	Rubber Tired Dozers	1	8.00	135	0.40
Building Construction and Finishing/Landscaping	Rubber Tired Dozers	1	8.00	217	0.40
Building Construction and Finishing/Landscaping	Skid Steer Loaders	2	8.00	111	0.37
Building Construction and Finishing/Landscaping	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction and Finishing/Landscaping	Welders	0	8.00	46	0.45
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Excavators	1	8.00	271	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rollers	1	8.00	121	0.38
Building Construction	Rubber Tired Dozers	1	8.00	135	0.40
Building Construction	Rubber Tired Dozers	1	8.00	217	0.40
Building Construction	Skid Steer Loaders	1	8.00	111	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	6.00	9	0.56

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

Asphalt Paving	Pavers	1	8.00	225	0.42
Asphalt Paving	Paving Equipment	0	6.00	132	0.36
Asphalt Paving	Rollers	1	8.00	49	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Asphalt Demolition Debris Haul	Crushing/Proc. Equipment	1	8.00	85	0.78
Asphalt Demolition Debris Haul	Rollers	1	8.00	121	0.38
Asphalt Demolition Debris Haul	Skid Steer Loaders	1	8.00	111	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demolition	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	5	13.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
and Building Construction	5	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	5.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads



Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

Clean Paved Roads

**3.2 Asphalt Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8724	21.3314	18.5824	0.0535		0.9365	0.9365		0.8938	0.8938		5,554.3995	5,554.3995	0.8815		5,576.4366
<b>Total</b>	<b>2.8724</b>	<b>21.3314</b>	<b>18.5824</b>	<b>0.0535</b>		<b>0.9365</b>	<b>0.9365</b>		<b>0.8938</b>	<b>0.8938</b>		<b>5,554.3995</b>	<b>5,554.3995</b>	<b>0.8815</b>		<b>5,576.4366</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0128	1.0400e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0635	0.0402	0.6171	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		156.4227	156.4227	4.0900e-003	3.9200e-003	157.6925
<b>Total</b>	<b>0.0670</b>	<b>0.1278</b>	<b>0.6492</b>	<b>1.9200e-003</b>	<b>0.1805</b>	<b>1.9200e-003</b>	<b>0.1824</b>	<b>0.0482</b>	<b>1.8100e-003</b>	<b>0.0500</b>		<b>196.4365</b>	<b>196.4365</b>	<b>5.1700e-003</b>	<b>9.8400e-003</b>	<b>199.4979</b>

**Mitigated Construction On-Site**

Redlands East Valley HS Field - San Bernardino-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
Category	lb/day										lb/day					
Off-Road	2.8724	21.3314	18.5824	0.0535		0.9365	0.9365		0.8938	0.8938	0.0000	5,554.3995	5,554.3995	0.8815		5,576.4366
<b>Total</b>	<b>2.8724</b>	<b>21.3314</b>	<b>18.5824</b>	<b>0.0535</b>		<b>0.9365</b>	<b>0.9365</b>		<b>0.8938</b>	<b>0.8938</b>	<b>0.0000</b>	<b>5,554.3995</b>	<b>5,554.3995</b>	<b>0.8815</b>		<b>5,576.4366</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0120	1.0400e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0635	0.0402	0.6171	1.5500e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		156.4227	156.4227	4.0900e-003	3.9200e-003	157.6925
<b>Total</b>	<b>0.0670</b>	<b>0.1278</b>	<b>0.6492</b>	<b>1.9200e-003</b>	<b>0.1665</b>	<b>1.9200e-003</b>	<b>0.1685</b>	<b>0.0447</b>	<b>1.8100e-003</b>	<b>0.0465</b>		<b>196.4365</b>	<b>196.4365</b>	<b>5.1700e-003</b>	<b>9.8400e-003</b>	<b>199.4979</b>

Redlands East Valley HS Field - San Bernardino-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 Asphalt Demolition Debris Haul - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3498	0.0000	5.3498	0.8100	0.0000	0.8100			0.0000			0.0000
Off-Road	1.5334	13.5969	14.5241	0.0279		0.6761	0.6761		0.6364	0.6364		2,687.7073	2,687.7073	0.6976		2,705.1473
<b>Total</b>	<b>1.5334</b>	<b>13.5969</b>	<b>14.5241</b>	<b>0.0279</b>	<b>5.3498</b>	<b>0.6761</b>	<b>6.0258</b>	<b>0.8100</b>	<b>0.6364</b>	<b>1.4464</b>		<b>2,687.7073</b>	<b>2,687.7073</b>	<b>0.6976</b>		<b>2,705.1473</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0945	3.4073	0.8890	0.0147	0.4378	0.0358	0.4736	0.1201	0.0342	0.1543		1,601.1627	1,601.1627	0.0686	0.2537	1,678.4891
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	0.0550	0.0349	0.5348	1.3400e-003	0.1453	7.6000e-004	0.1461	0.0385	7.0000e-004	0.0392		135.5663	135.5663	3.5500e-003	3.4000e-003	136.6669
<b>Total</b>	<b>0.1496</b>	<b>3.4422</b>	<b>1.4238</b>	<b>0.0160</b>	<b>0.5831</b>	<b>0.0366</b>	<b>0.6197</b>	<b>0.1586</b>	<b>0.0349</b>	<b>0.1935</b>		<b>1,736.7290</b>	<b>1,736.7290</b>	<b>0.0721</b>	<b>0.2571</b>	<b>1,815.1560</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2870	0.0000	2.2870	0.3463	0.0000	0.3463			0.0000			0.0000
Off-Road	1.5334	13.5969	14.5241	0.0279		0.6761	0.6761		0.6364	0.6364	0.0000	2,687.7073	2,687.7073	0.6976		2,705.1473
<b>Total</b>	<b>1.5334</b>	<b>13.5969</b>	<b>14.5241</b>	<b>0.0279</b>	<b>2.2870</b>	<b>0.6761</b>	<b>2.9631</b>	<b>0.3463</b>	<b>0.6364</b>	<b>0.9827</b>	<b>0.0000</b>	<b>2,687.7073</b>	<b>2,687.7073</b>	<b>0.6976</b>		<b>2,705.1473</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0945	3.4073	0.8890	0.0147	0.4081	0.0358	0.4439	0.1128	0.0342	0.1470		1,601.1627	1,601.1627	0.0686	0.2537	1,678.4891
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	0.0550	0.0349	0.5348	1.3400e-003	0.1339	7.6000e-004	0.1347	0.0358	7.0000e-004	0.0365		135.5663	135.5663	3.5500e-003	3.4000e-003	136.6669
<b>Total</b>	<b>0.1496</b>	<b>3.4422</b>	<b>1.4238</b>	<b>0.0160</b>	<b>0.5420</b>	<b>0.0366</b>	<b>0.5786</b>	<b>0.1485</b>	<b>0.0349</b>	<b>0.1834</b>		<b>1,736.7290</b>	<b>1,736.7290</b>	<b>0.0721</b>	<b>0.2571</b>	<b>1,815.1560</b>

Redlands East Valley HS Field - San Bernardino-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 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4079	24.6400	16.4809	0.0302		1.2076	1.2076		1.1110	1.1110		2,930.0511	2,930.0511	0.9476		2,953.7421
<b>Total</b>	<b>2.4079</b>	<b>24.6400</b>	<b>16.4809</b>	<b>0.0302</b>	<b>19.6570</b>	<b>1.2076</b>	<b>20.8647</b>	<b>10.1025</b>	<b>1.1110</b>	<b>11.2135</b>		<b>2,930.0511</b>	<b>2,930.0511</b>	<b>0.9476</b>		<b>2,953.7421</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0128	1.0400e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0635	0.0402	0.6171	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		156.4227	156.4227	4.0900e-003	3.9200e-003	157.6925
<b>Total</b>	<b>0.0670</b>	<b>0.1278</b>	<b>0.6492</b>	<b>1.9200e-003</b>	<b>0.1805</b>	<b>1.9200e-003</b>	<b>0.1824</b>	<b>0.0482</b>	<b>1.8100e-003</b>	<b>0.0500</b>		<b>196.4365</b>	<b>196.4365</b>	<b>5.1700e-003</b>	<b>9.8400e-003</b>	<b>199.4979</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4079	24.6400	16.4809	0.0302		1.2076	1.2076		1.1110	1.1110	0.0000	2,930.0511	2,930.0511	0.9476		2,953.7421
<b>Total</b>	<b>2.4079</b>	<b>24.6400</b>	<b>16.4809</b>	<b>0.0302</b>	<b>8.4034</b>	<b>1.2076</b>	<b>9.6110</b>	<b>4.3188</b>	<b>1.1110</b>	<b>5.4298</b>	<b>0.0000</b>	<b>2,930.0511</b>	<b>2,930.0511</b>	<b>0.9476</b>		<b>2,953.7421</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0120	1.0400e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0635	0.0402	0.6171	1.5500e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		156.4227	156.4227	4.0900e-003	3.9200e-003	157.6925
<b>Total</b>	<b>0.0670</b>	<b>0.1278</b>	<b>0.6492</b>	<b>1.9200e-003</b>	<b>0.1665</b>	<b>1.9200e-003</b>	<b>0.1685</b>	<b>0.0447</b>	<b>1.8100e-003</b>	<b>0.0465</b>		<b>196.4365</b>	<b>196.4365</b>	<b>5.1700e-003</b>	<b>9.8400e-003</b>	<b>199.4979</b>

Redlands East Valley HS Field - San Bernardino-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 Rough Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5592	16.2327	11.4517	0.0196		0.8003	0.8003		0.7363	0.7363		1,902.8699	1,902.8699	0.6154		1,918.2556
<b>Total</b>	<b>1.5592</b>	<b>16.2327</b>	<b>11.4517</b>	<b>0.0196</b>	<b>6.5523</b>	<b>0.8003</b>	<b>7.3526</b>	<b>3.3675</b>	<b>0.7363</b>	<b>4.1038</b>		<b>1,902.8699</b>	<b>1,902.8699</b>	<b>0.6154</b>		<b>1,918.2556</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0128	1.0400e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0423	0.0268	0.4114	1.0300e-003	0.1118	5.9000e-004	0.1124	0.0296	5.4000e-004	0.0302		104.2818	104.2818	2.7300e-003	2.6100e-003	105.1284
<b>Total</b>	<b>0.0458</b>	<b>0.1144</b>	<b>0.4435</b>	<b>1.4000e-003</b>	<b>0.1246</b>	<b>1.6300e-003</b>	<b>0.1262</b>	<b>0.0333</b>	<b>1.5400e-003</b>	<b>0.0349</b>		<b>144.2956</b>	<b>144.2956</b>	<b>3.8100e-003</b>	<b>8.5300e-003</b>	<b>146.9337</b>

**Mitigated Construction On-Site**

Redlands East Valley HS Field - San Bernardino-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
Category	lb/day										lb/day					
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	1.5592	16.2327	11.4517	0.0196		0.8003	0.8003		0.7363	0.7363	0.0000	1,902.8699	1,902.8699	0.6154		1,918.2556
<b>Total</b>	<b>1.5592</b>	<b>16.2327</b>	<b>11.4517</b>	<b>0.0196</b>	<b>2.8011</b>	<b>0.8003</b>	<b>3.6014</b>	<b>1.4396</b>	<b>0.7363</b>	<b>2.1759</b>	<b>0.0000</b>	<b>1,902.8699</b>	<b>1,902.8699</b>	<b>0.6154</b>		<b>1,918.2556</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0120	1.0400e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0423	0.0268	0.4114	1.0300e-003	0.1030	5.9000e-004	0.1036	0.0275	5.4000e-004	0.0280		104.2818	104.2818	2.7300e-003	2.6100e-003	105.1284
<b>Total</b>	<b>0.0458</b>	<b>0.1144</b>	<b>0.4435</b>	<b>1.4000e-003</b>	<b>0.1150</b>	<b>1.6300e-003</b>	<b>0.1167</b>	<b>0.0310</b>	<b>1.5400e-003</b>	<b>0.0325</b>		<b>144.2956</b>	<b>144.2956</b>	<b>3.8100e-003</b>	<b>8.5300e-003</b>	<b>146.9337</b>

**3.6 Utility Trenching - 2022**



Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7615	7.7405	8.1148	0.0223		0.2826	0.2826		0.2600	0.2600		2,153.8750	2,153.8750	0.6966		2,171.2901
<b>Total</b>	<b>0.7615</b>	<b>7.7405</b>	<b>8.1148</b>	<b>0.0223</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>		<b>2,153.8750</b>	<b>2,153.8750</b>	<b>0.6966</b>		<b>2,171.2901</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0268	0.4114	1.0300e-003	0.1118	5.9000e-004	0.1124	0.0296	5.4000e-004	0.0302		104.2818	104.2818	2.7300e-003	2.6100e-003	105.1284
<b>Total</b>	<b>0.0423</b>	<b>0.0268</b>	<b>0.4114</b>	<b>1.0300e-003</b>	<b>0.1118</b>	<b>5.9000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.4000e-004</b>	<b>0.0302</b>		<b>104.2818</b>	<b>104.2818</b>	<b>2.7300e-003</b>	<b>2.6100e-003</b>	<b>105.1284</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7615	7.7405	8.1148	0.0223		0.2826	0.2826		0.2600	0.2600	0.0000	2,153.8750	2,153.8750	0.6966		2,171.2901
<b>Total</b>	<b>0.7615</b>	<b>7.7405</b>	<b>8.1148</b>	<b>0.0223</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>	<b>0.0000</b>	<b>2,153.8750</b>	<b>2,153.8750</b>	<b>0.6966</b>		<b>2,171.2901</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0423	0.0268	0.4114	1.0300e-003	0.1030	5.9000e-004	0.1036	0.0275	5.4000e-004	0.0280		104.2818	104.2818	2.7300e-003	2.6100e-003	105.1284
<b>Total</b>	<b>0.0423</b>	<b>0.0268</b>	<b>0.4114</b>	<b>1.0300e-003</b>	<b>0.1030</b>	<b>5.9000e-004</b>	<b>0.1036</b>	<b>0.0275</b>	<b>5.4000e-004</b>	<b>0.0280</b>		<b>104.2818</b>	<b>104.2818</b>	<b>2.7300e-003</b>	<b>2.6100e-003</b>	<b>105.1284</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**3.7 Fine 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3973	13.6737	10.8673	0.0211		0.6332	0.6332		0.5825	0.5825		2,046.4937	2,046.4937	0.6619		2,063.0406
<b>Total</b>	<b>1.3973</b>	<b>13.6737</b>	<b>10.8673</b>	<b>0.0211</b>	<b>7.0826</b>	<b>0.6332</b>	<b>7.7157</b>	<b>3.4247</b>	<b>0.5825</b>	<b>4.0072</b>		<b>2,046.4937</b>	<b>2,046.4937</b>	<b>0.6619</b>		<b>2,063.0406</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0128	1.0400e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0423	0.0268	0.4114	1.0300e-003	0.1118	5.9000e-004	0.1124	0.0296	5.4000e-004	0.0302		104.2818	104.2818	2.7300e-003	2.6100e-003	105.1284
<b>Total</b>	<b>0.0458</b>	<b>0.1144</b>	<b>0.4435</b>	<b>1.4000e-003</b>	<b>0.1246</b>	<b>1.6300e-003</b>	<b>0.1262</b>	<b>0.0333</b>	<b>1.5400e-003</b>	<b>0.0349</b>		<b>144.2956</b>	<b>144.2956</b>	<b>3.8100e-003</b>	<b>8.5300e-003</b>	<b>146.9337</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.3973	13.6737	10.8673	0.0211		0.6332	0.6332		0.5825	0.5825	0.0000	2,046.4937	2,046.4937	0.6619		2,063.0406
<b>Total</b>	<b>1.3973</b>	<b>13.6737</b>	<b>10.8673</b>	<b>0.0211</b>	<b>3.0278</b>	<b>0.6332</b>	<b>3.6610</b>	<b>1.4641</b>	<b>0.5825</b>	<b>2.0466</b>	<b>0.0000</b>	<b>2,046.4937</b>	<b>2,046.4937</b>	<b>0.6619</b>		<b>2,063.0406</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4900e-003	0.0876	0.0321	3.7000e-004	0.0120	1.0400e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0138	40.0138	1.0800e-003	5.9200e-003	41.8054
Worker	0.0423	0.0268	0.4114	1.0300e-003	0.1030	5.9000e-004	0.1036	0.0275	5.4000e-004	0.0280		104.2818	104.2818	2.7300e-003	2.6100e-003	105.1284
<b>Total</b>	<b>0.0458</b>	<b>0.1144</b>	<b>0.4435</b>	<b>1.4000e-003</b>	<b>0.1150</b>	<b>1.6300e-003</b>	<b>0.1167</b>	<b>0.0310</b>	<b>1.5400e-003</b>	<b>0.0325</b>		<b>144.2956</b>	<b>144.2956</b>	<b>3.8100e-003</b>	<b>8.5300e-003</b>	<b>146.9337</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**3.8 Building Construction and Finishing/Landscaping - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6193	26.1179	20.8086	0.0507		1.1594	1.1594		1.0666	1.0666		4,911.2427	4,911.2427	1.5884		4,950.9526
<b>Total</b>	<b>2.6193</b>	<b>26.1179</b>	<b>20.8086</b>	<b>0.0507</b>		<b>1.1594</b>	<b>1.1594</b>		<b>1.0666</b>	<b>1.0666</b>		<b>4,911.2427</b>	<b>4,911.2427</b>	<b>1.5884</b>		<b>4,950.9526</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0697	1.7516	0.6428	7.4600e-003	0.2563	0.0208	0.2771	0.0738	0.0199	0.0937		800.2753	800.2753	0.0216	0.1184	836.1074
Worker	0.3260	0.2065	3.1677	7.9400e-003	0.8607	4.5100e-003	0.8652	0.2283	4.1500e-003	0.2324		802.9698	802.9698	0.0210	0.0201	809.4884
<b>Total</b>	<b>0.3957</b>	<b>1.9581</b>	<b>3.8105</b>	<b>0.0154</b>	<b>1.1170</b>	<b>0.0254</b>	<b>1.1423</b>	<b>0.3021</b>	<b>0.0241</b>	<b>0.3261</b>		<b>1,603.2451</b>	<b>1,603.2451</b>	<b>0.0426</b>	<b>0.1385</b>	<b>1,645.5958</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6193	26.1179	20.8086	0.0507		1.1594	1.1594		1.0666	1.0666	0.0000	4,911.2427	4,911.2427	1.5884		4,950.9526
<b>Total</b>	<b>2.6193</b>	<b>26.1179</b>	<b>20.8086</b>	<b>0.0507</b>		<b>1.1594</b>	<b>1.1594</b>		<b>1.0666</b>	<b>1.0666</b>	<b>0.0000</b>	<b>4,911.2427</b>	<b>4,911.2427</b>	<b>1.5884</b>		<b>4,950.9526</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0697	1.7516	0.6428	7.4600e-003	0.2399	0.0208	0.2607	0.0698	0.0199	0.0897		800.2753	800.2753	0.0216	0.1184	836.1074
Worker	0.3260	0.2065	3.1677	7.9400e-003	0.7933	4.5100e-003	0.7979	0.2117	4.1500e-003	0.2159		802.9698	802.9698	0.0210	0.0201	809.4884
<b>Total</b>	<b>0.3957</b>	<b>1.9581</b>	<b>3.8105</b>	<b>0.0154</b>	<b>1.0332</b>	<b>0.0254</b>	<b>1.0585</b>	<b>0.2815</b>	<b>0.0241</b>	<b>0.3056</b>		<b>1,603.2451</b>	<b>1,603.2451</b>	<b>0.0426</b>	<b>0.1385</b>	<b>1,645.5958</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**3.9 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	1.7916	18.1214	13.3792	0.0285		0.8637	0.8637		0.7946	0.7946		2,755.9846	2,755.9846	0.8913		2,778.2682
<b>Total</b>	<b>1.7916</b>	<b>18.1214</b>	<b>13.3792</b>	<b>0.0285</b>		<b>0.8637</b>	<b>0.8637</b>		<b>0.7946</b>	<b>0.7946</b>		<b>2,755.9846</b>	<b>2,755.9846</b>	<b>0.8913</b>		<b>2,778.2682</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1922	0.0156	0.2078	0.0554	0.0150	0.0703		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3260	0.2065	3.1677	7.9400e-003	0.8607	4.5100e-003	0.8652	0.2283	4.1500e-003	0.2324		802.9698	802.9698	0.0210	0.0201	809.4884
<b>Total</b>	<b>0.3783</b>	<b>1.5202</b>	<b>3.6498</b>	<b>0.0135</b>	<b>1.0529</b>	<b>0.0201</b>	<b>1.0730</b>	<b>0.2836</b>	<b>0.0191</b>	<b>0.3027</b>		<b>1,403.1763</b>	<b>1,403.1763</b>	<b>0.0372</b>	<b>0.1089</b>	<b>1,436.5689</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7916	18.1214	13.3792	0.0285		0.8637	0.8637		0.7946	0.7946	0.0000	2,755.9846	2,755.9846	0.8913		2,778.2681
<b>Total</b>	<b>1.7916</b>	<b>18.1214</b>	<b>13.3792</b>	<b>0.0285</b>		<b>0.8637</b>	<b>0.8637</b>		<b>0.7946</b>	<b>0.7946</b>	<b>0.0000</b>	<b>2,755.9846</b>	<b>2,755.9846</b>	<b>0.8913</b>		<b>2,778.2681</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0523	1.3137	0.4821	5.6000e-003	0.1799	0.0156	0.1955	0.0523	0.0150	0.0673		600.2065	600.2065	0.0162	0.0888	627.0806
Worker	0.3260	0.2065	3.1677	7.9400e-003	0.7933	4.5100e-003	0.7979	0.2117	4.1500e-003	0.2159		802.9698	802.9698	0.0210	0.0201	809.4884
<b>Total</b>	<b>0.3783</b>	<b>1.5202</b>	<b>3.6498</b>	<b>0.0135</b>	<b>0.9732</b>	<b>0.0201</b>	<b>0.9934</b>	<b>0.2641</b>	<b>0.0191</b>	<b>0.2832</b>		<b>1,403.1763</b>	<b>1,403.1763</b>	<b>0.0372</b>	<b>0.1089</b>	<b>1,436.5689</b>



Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**3.10 Asphalt 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	0.4765	4.5220	3.1330	9.9200e-003		0.1733	0.1733		0.1595	0.1595		959.9368	959.9368	0.3105		967.6984
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4765</b>	<b>4.5220</b>	<b>3.1330</b>	<b>9.9200e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1595</b>	<b>0.1595</b>		<b>959.9368</b>	<b>959.9368</b>	<b>0.3105</b>		<b>967.6984</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0244	0.6131	0.2250	2.6100e-003	0.0897	7.2900e-003	0.0970	0.0258	6.9800e-003	0.0328		280.0964	280.0964	7.5700e-003	0.0415	292.6376
Worker	0.0212	0.0134	0.2057	5.2000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		52.1409	52.1409	1.3600e-003	1.3100e-003	52.5642
<b>Total</b>	<b>0.0456</b>	<b>0.6265</b>	<b>0.4307</b>	<b>3.1300e-003</b>	<b>0.1456</b>	<b>7.5800e-003</b>	<b>0.1532</b>	<b>0.0407</b>	<b>7.2500e-003</b>	<b>0.0479</b>		<b>332.2373</b>	<b>332.2373</b>	<b>8.9300e-003</b>	<b>0.0428</b>	<b>345.2018</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4765	4.5220	3.1330	9.9200e-003		0.1733	0.1733		0.1595	0.1595	0.0000	959.9368	959.9368	0.3105		967.6984
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4765</b>	<b>4.5220</b>	<b>3.1330</b>	<b>9.9200e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1595</b>	<b>0.1595</b>	<b>0.0000</b>	<b>959.9368</b>	<b>959.9368</b>	<b>0.3105</b>		<b>967.6984</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0244	0.6131	0.2250	2.6100e-003	0.0840	7.2900e-003	0.0912	0.0244	6.9800e-003	0.0314		280.0964	280.0964	7.5700e-003	0.0415	292.6376
Worker	0.0212	0.0134	0.2057	5.2000e-004	0.0515	2.9000e-004	0.0518	0.0138	2.7000e-004	0.0140		52.1409	52.1409	1.3600e-003	1.3100e-003	52.5642
<b>Total</b>	<b>0.0456</b>	<b>0.6265</b>	<b>0.4307</b>	<b>3.1300e-003</b>	<b>0.1355</b>	<b>7.5800e-003</b>	<b>0.1431</b>	<b>0.0382</b>	<b>7.2500e-003</b>	<b>0.0454</b>		<b>332.2373</b>	<b>332.2373</b>	<b>8.9300e-003</b>	<b>0.0428</b>	<b>345.2018</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**3.11 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>2.9774</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0635	0.0402	0.6171	1.5500e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		156.4227	156.4227	4.0900e-003	3.9200e-003	157.6925
<b>Total</b>	<b>0.0635</b>	<b>0.0402</b>	<b>0.6171</b>	<b>1.5500e-003</b>	<b>0.1677</b>	<b>8.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>8.1000e-004</b>	<b>0.0453</b>		<b>156.4227</b>	<b>156.4227</b>	<b>4.0900e-003</b>	<b>3.9200e-003</b>	<b>157.6925</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Summer

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>2.9774</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0635	0.0402	0.6171	1.5500e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		156.4227	156.4227	4.0900e-003	3.9200e-003	157.6925
<b>Total</b>	<b>0.0635</b>	<b>0.0402</b>	<b>0.6171</b>	<b>1.5500e-003</b>	<b>0.1546</b>	<b>8.8000e-004</b>	<b>0.1554</b>	<b>0.0413</b>	<b>8.1000e-004</b>	<b>0.0421</b>		<b>156.4227</b>	<b>156.4227</b>	<b>4.0900e-003</b>	<b>3.9200e-003</b>	<b>157.6925</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Redlands East Valley HS Field  
San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	5.42	1000sqft	0.00	5,417.00	0
Other Non-Asphalt Surfaces	177.06	1000sqft	4.06	177,063.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	509.98	<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 - Based on 2020 Sustainability Report.

Land Use - Based on applicant info. (see assumptions file).

Construction Phase - Compiled "worst-case" scenario of the Proposed Phases 1-3 for year 2022 to model highest peak daily emissions (see assumptions file).

Off-road Equipment -

Off-road Equipment - Based on equipment mix provided by District, used default HP for Terex Jaw Plant Crusher as worst-case scenario

Off-road Equipment - Equipment provided by applicant, see assumptions file

Off-road Equipment - Based on equipment mix provided by District (see assumptions file)

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Off-road Equipment - Based on equipment mix provided by District

Trips and VMT - Assume 2 vt/day/water truck, accounted for dump trucks based on applicant's equipment mix, see assumptions file

Demolition -

Grading -

Architectural Coating - Based on applicant info. (see assumptions file), existing parking lot will remain and be re-striped.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,624.00	1,728.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	18.00	21.00
tblConstructionPhase	NumDays	230.00	3.00
tblConstructionPhase	NumDays	230.00	103.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	8.00	5.00
tblConstructionPhase	NumDays	18.00	3.00
tblLandUse	LandUseSquareFeet	5,420.00	5,417.00
tblLandUse	LandUseSquareFeet	177,060.00	177,063.00
tblLandUse	LotAcreage	0.12	0.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	158.00	271.00
tblOffRoadEquipment	HorsePower	187.00	255.00

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

tbiOffRoadEquipment	HorsePower	130.00	225.00
tbiOffRoadEquipment	HorsePower	80.00	49.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	85.00	336.00
tbiOffRoadEquipment	HorsePower	158.00	271.00
tbiOffRoadEquipment	HorsePower	158.00	271.00
tbiOffRoadEquipment	HorsePower	158.00	271.00
tbiOffRoadEquipment	HorsePower	130.00	225.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	80.00	49.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	247.00	135.00
tbiOffRoadEquipment	HorsePower	247.00	217.00
tbiOffRoadEquipment	HorsePower	203.00	193.00

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

tbiOffRoadEquipment	HorsePower	203.00	193.00
tbiOffRoadEquipment	HorsePower	203.00	193.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	HorsePower	80.00	121.00
tbiOffRoadEquipment	HorsePower	65.00	111.00
tbiOffRoadEquipment	LoadFactor	0.38	0.38
tbiOffRoadEquipment	LoadFactor	0.37	0.37
tbiOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tbiOffRoadEquipment	OffRoadEquipmentType		Rollers
tbiOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00



Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tbiOffRoadEquipment	UsageHours	6.00	8.00
tbiProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tbiTripsAndVMT	HaulingTripNumber	247.00	250.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	0.00	2.00
tbiTripsAndVMT	VendorTripNumber	30.00	40.00
tbiTripsAndVMT	VendorTripNumber	0.00	14.00

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**2.0 Emissions Summary**

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**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	5.1934	28.1739	24.0761	0.0654	19.8375	1.2096	21.0471	10.1506	1.1128	11.2634	0.0000	6,439.6490	6,439.6490	1.6309	0.2574	6,521.9606
Maximum	5.1934	28.1739	24.0761	0.0654	19.8375	1.2096	21.0471	10.1506	1.1128	11.2634	0.0000	6,439.6490	6,439.6490	1.6309	0.2574	6,521.9606

**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	5.1934	28.1739	24.0761	0.0654	8.5699	1.2096	9.7795	4.3635	1.1128	5.4764	0.0000	6,439.6490	6,439.6490	1.6309	0.2574	6,521.9606
Maximum	5.1934	28.1739	24.0761	0.0654	8.5699	1.2096	9.7795	4.3635	1.1128	5.4764	0.0000	6,439.6490	6,439.6490	1.6309	0.2574	6,521.9606

	ROG	NOx	CO	SO2	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	56.80	0.00	53.54	57.01	0.00	51.38	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

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Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt Demolition	Demolition	3/5/2022	3/19/2022	5	10	a
2	Asphalt Demolition Debris Haul	Demolition	3/20/2022	4/2/2022	5	10	b
3	Site Preparation	Site Preparation	4/3/2022	4/9/2022	5	5	c
4	Rough Grading	Grading	4/10/2022	4/16/2022	5	5	d
5	Utility Trenching	Trenching	5/5/2022	5/18/2022	5	10	e
6	Fine Grading	Grading	5/28/2022	6/5/2022	5	5	f
7	Building Construction and Finishing/Landscaping	Building Construction	6/8/2022	6/12/2022	5	3	g
8	Building Construction	Building Construction	6/13/2022	11/2/2022	5	103	h
9	Asphalt Paving	Paving	6/15/2022	6/19/2022	5	3	i
10	Architectural Coating	Architectural Coating	10/5/2022	11/2/2022	5	21	j

**Acres of Grading (Site Preparation Phase): 7.5**

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

**Acres of Paving: 4.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 8,126; Non-Residential Outdoor: 2,709; Striped Parking Area: 1,728 (Architectural**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition	Crushing/Proc. Equipment	1	8.00	336	0.78
Asphalt Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78
Asphalt Demolition	Excavators	0	8.00	158	0.38
Asphalt Demolition	Excavators	1	8.00	271	0.38
Asphalt Demolition	Rollers	1	8.00	121	0.38

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

Asphalt Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Asphalt Demolition	Rubber Tired Dozers	1	8.00	135	0.40
Asphalt Demolition	Rubber Tired Loaders	1	8.00	193	0.36
Asphalt Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Asphalt Demolition Debris Haul	Excavators	1	8.00	271	0.38
Asphalt Demolition Debris Haul	Rubber Tired Dozers	1	8.00	135	0.40
Site Preparation	Aerial Lifts			63	0.31
Site Preparation	Rollers	1	8.00	121	0.38
Site Preparation	Rubber Tired Dozers	2	8.00	135	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	217	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	193	0.36
Site Preparation	Skid Steer Loaders	1	8.00	111	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Rough Grading	Excavators	0	8.00	158	0.38
Rough Grading	Graders	0	8.00	187	0.41
Rough Grading	Rollers	1	8.00	121	0.38
Rough Grading	Rubber Tired Dozers	1	8.00	135	0.40
Rough Grading	Rubber Tired Dozers	1	8.00	217	0.40
Rough Grading	Skid Steer Loaders	1	8.00	111	0.37
Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Utility Trenching	Excavators	1	8.00	271	0.38
Utility Trenching	Rollers	1	8.00	121	0.38
Utility Trenching	Rubber Tired Loaders	1	8.00	193	0.36
Utility Trenching	Skid Steer Loaders	1	8.00	111	0.37
Fine Grading	Excavators	0	8.00	158	0.38
Fine Grading	Graders	1	8.00	255	0.41
Fine Grading	Rollers	1	8.00	121	0.38

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

Fine Grading	Rubber Tired Dozers	1	8.00	135	0.40
Fine Grading	Skid Steer Loaders	1	8.00	111	0.37
Fine Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction and Finishing/Landscaping	Cranes	0	7.00	231	0.29
Building Construction and Finishing/Landscaping	Excavators	2	8.00	271	0.38
Building Construction and Finishing/Landscaping	Forklifts	0	8.00	89	0.20
Building Construction and Finishing/Landscaping	Generator Sets	0	8.00	84	0.74
Building Construction and Finishing/Landscaping	Pavers	1	8.00	225	0.42
Building Construction and Finishing/Landscaping	Rollers	1	8.00	121	0.38
Building Construction and Finishing/Landscaping	Rollers	1	8.00	49	0.38
Building Construction and Finishing/Landscaping	Rubber Tired Dozers	1	8.00	135	0.40
Building Construction and Finishing/Landscaping	Rubber Tired Dozers	1	8.00	217	0.40
Building Construction and Finishing/Landscaping	Skid Steer Loaders	2	8.00	111	0.37
Building Construction and Finishing/Landscaping	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction and Finishing/Landscaping	Welders	0	8.00	46	0.45
Building Construction and Finishing/Landscaping	Cranes	0	7.00	231	0.29
Building Construction	Excavators	1	8.00	271	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Rollers	1	8.00	121	0.38
Building Construction	Rubber Tired Dozers	1	8.00	135	0.40
Building Construction	Rubber Tired Dozers	1	8.00	217	0.40
Building Construction	Skid Steer Loaders	1	8.00	111	0.37
Building Construction	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Asphalt Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Asphalt Paving	Pavers	1	8.00	225	0.42

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

Asphalt Paving	Paving Equipment	0	6.00	132	0.36
Asphalt Paving	Rollers	1	8.00	49	0.38
Asphalt Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Asphalt Demolition Debris Haul	Crushing/Proc. Equipment	1	8.00	85	0.78
Asphalt Demolition Debris Haul	Rollers	1	8.00	121	0.38
Asphalt Demolition Debris Haul	Skid Steer Loaders	1	8.00	111	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt Demolition	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Demolition Debris Haul	5	13.00	0.00	250.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Fine Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	77.00	40.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
and Building Construction	5	77.00	30.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Asphalt Paving	2	5.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Redlands East Valley HS Field - San Bernardino-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 Asphalt Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.8724	21.3314	18.5824	0.0535		0.9365	0.9365		0.8938	0.8938		5,554.3995	5,554.3995	0.8815		5,576.4366
<b>Total</b>	<b>2.8724</b>	<b>21.3314</b>	<b>18.5824</b>	<b>0.0535</b>		<b>0.9365</b>	<b>0.9365</b>		<b>0.8938</b>	<b>0.8938</b>		<b>5,554.3995</b>	<b>5,554.3995</b>	<b>0.8815</b>		<b>5,576.4366</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0128	1.0500e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0610	0.0423	0.5069	1.4000e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0644</b>	<b>0.1343</b>	<b>0.5402</b>	<b>1.7700e-003</b>	<b>0.1805</b>	<b>1.9300e-003</b>	<b>0.1824</b>	<b>0.0482</b>	<b>1.8100e-003</b>	<b>0.0500</b>		<b>181.7296</b>	<b>181.7296</b>	<b>5.1500e-003</b>	<b>9.9700e-003</b>	<b>184.8316</b>

**Mitigated Construction On-Site**

Redlands East Valley HS Field - San Bernardino-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
Category	lb/day										lb/day					
Off-Road	2.8724	21.3314	18.5824	0.0535		0.9365	0.9365		0.8938	0.8938	0.0000	5,554.3995	5,554.3995	0.8815		5,576.4366
<b>Total</b>	<b>2.8724</b>	<b>21.3314</b>	<b>18.5824</b>	<b>0.0535</b>		<b>0.9365</b>	<b>0.9365</b>		<b>0.8938</b>	<b>0.8938</b>	<b>0.0000</b>	<b>5,554.3995</b>	<b>5,554.3995</b>	<b>0.8815</b>		<b>5,576.4366</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0120	1.0500e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0610	0.0423	0.5069	1.4000e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0644</b>	<b>0.1343</b>	<b>0.5402</b>	<b>1.7700e-003</b>	<b>0.1665</b>	<b>1.9300e-003</b>	<b>0.1685</b>	<b>0.0447</b>	<b>1.8100e-003</b>	<b>0.0465</b>		<b>181.7296</b>	<b>181.7296</b>	<b>5.1500e-003</b>	<b>9.9700e-003</b>	<b>184.8316</b>



Redlands East Valley HS Field - San Bernardino-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 Asphalt Demolition Debris Haul - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3498	0.0000	5.3498	0.8100	0.0000	0.8100			0.0000			0.0000
Off-Road	1.5334	13.5969	14.5241	0.0279		0.6761	0.6761		0.6364	0.6364		2,687.7073	2,687.7073	0.6976		2,705.1473
<b>Total</b>	<b>1.5334</b>	<b>13.5969</b>	<b>14.5241</b>	<b>0.0279</b>	<b>5.3498</b>	<b>0.6761</b>	<b>6.0258</b>	<b>0.8100</b>	<b>0.6364</b>	<b>1.4464</b>		<b>2,687.7073</b>	<b>2,687.7073</b>	<b>0.6976</b>		<b>2,705.1473</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0907	3.5775	0.9091	0.0147	0.4378	0.0359	0.4737	0.1201	0.0343	0.1544		1,602.3582	1,602.3582	0.0684	0.2539	1,679.7363
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	0.0529	0.0367	0.4393	1.2100e-003	0.1453	7.6000e-004	0.1461	0.0385	7.0000e-004	0.0392		122.7822	122.7822	3.5400e-003	3.5100e-003	123.9153
<b>Total</b>	<b>0.1435</b>	<b>3.6142</b>	<b>1.3484</b>	<b>0.0159</b>	<b>0.5831</b>	<b>0.0366</b>	<b>0.6197</b>	<b>0.1586</b>	<b>0.0350</b>	<b>0.1936</b>		<b>1,725.1403</b>	<b>1,725.1403</b>	<b>0.0719</b>	<b>0.2574</b>	<b>1,803.6517</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2870	0.0000	2.2870	0.3463	0.0000	0.3463			0.0000			0.0000
Off-Road	1.5334	13.5969	14.5241	0.0279		0.6761	0.6761		0.6364	0.6364	0.0000	2,687.7073	2,687.7073	0.6976		2,705.1473
<b>Total</b>	<b>1.5334</b>	<b>13.5969</b>	<b>14.5241</b>	<b>0.0279</b>	<b>2.2870</b>	<b>0.6761</b>	<b>2.9631</b>	<b>0.3463</b>	<b>0.6364</b>	<b>0.9827</b>	<b>0.0000</b>	<b>2,687.7073</b>	<b>2,687.7073</b>	<b>0.6976</b>		<b>2,705.1473</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0907	3.5775	0.9091	0.0147	0.4081	0.0359	0.4439	0.1128	0.0343	0.1471		1,602.3582	1,602.3582	0.0684	0.2539	1,679.7363
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	0.0529	0.0367	0.4393	1.2100e-003	0.1339	7.6000e-004	0.1347	0.0358	7.0000e-004	0.0365		122.7822	122.7822	3.5400e-003	3.5100e-003	123.9153
<b>Total</b>	<b>0.1435</b>	<b>3.6142</b>	<b>1.3484</b>	<b>0.0159</b>	<b>0.5420</b>	<b>0.0366</b>	<b>0.5786</b>	<b>0.1485</b>	<b>0.0350</b>	<b>0.1835</b>		<b>1,725.1403</b>	<b>1,725.1403</b>	<b>0.0719</b>	<b>0.2574</b>	<b>1,803.6517</b>

Redlands East Valley HS Field - San Bernardino-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 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4079	24.6400	16.4809	0.0302		1.2076	1.2076		1.1110	1.1110		2,930.0511	2,930.0511	0.9476		2,953.7421
<b>Total</b>	<b>2.4079</b>	<b>24.6400</b>	<b>16.4809</b>	<b>0.0302</b>	<b>19.6570</b>	<b>1.2076</b>	<b>20.8647</b>	<b>10.1025</b>	<b>1.1110</b>	<b>11.2135</b>		<b>2,930.0511</b>	<b>2,930.0511</b>	<b>0.9476</b>		<b>2,953.7421</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0128	1.0500e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0610	0.0423	0.5069	1.4000e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0644</b>	<b>0.1343</b>	<b>0.5402</b>	<b>1.7700e-003</b>	<b>0.1805</b>	<b>1.9300e-003</b>	<b>0.1824</b>	<b>0.0482</b>	<b>1.8100e-003</b>	<b>0.0500</b>		<b>181.7296</b>	<b>181.7296</b>	<b>5.1500e-003</b>	<b>9.9700e-003</b>	<b>184.8316</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.4034	0.0000	8.4034	4.3188	0.0000	4.3188			0.0000			0.0000
Off-Road	2.4079	24.6400	16.4809	0.0302		1.2076	1.2076		1.1110	1.1110	0.0000	2,930.0511	2,930.0511	0.9476		2,953.7421
<b>Total</b>	<b>2.4079</b>	<b>24.6400</b>	<b>16.4809</b>	<b>0.0302</b>	<b>8.4034</b>	<b>1.2076</b>	<b>9.6110</b>	<b>4.3188</b>	<b>1.1110</b>	<b>5.4298</b>	<b>0.0000</b>	<b>2,930.0511</b>	<b>2,930.0511</b>	<b>0.9476</b>		<b>2,953.7421</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0120	1.0500e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0610	0.0423	0.5069	1.4000e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0644</b>	<b>0.1343</b>	<b>0.5402</b>	<b>1.7700e-003</b>	<b>0.1665</b>	<b>1.9300e-003</b>	<b>0.1685</b>	<b>0.0447</b>	<b>1.8100e-003</b>	<b>0.0465</b>		<b>181.7296</b>	<b>181.7296</b>	<b>5.1500e-003</b>	<b>9.9700e-003</b>	<b>184.8316</b>

Redlands East Valley HS Field - San Bernardino-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 Rough Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5592	16.2327	11.4517	0.0196		0.8003	0.8003		0.7363	0.7363		1,902.8699	1,902.8699	0.6154		1,918.2556
<b>Total</b>	<b>1.5592</b>	<b>16.2327</b>	<b>11.4517</b>	<b>0.0196</b>	<b>6.5523</b>	<b>0.8003</b>	<b>7.3526</b>	<b>3.3675</b>	<b>0.7363</b>	<b>4.1038</b>		<b>1,902.8699</b>	<b>1,902.8699</b>	<b>0.6154</b>		<b>1,918.2556</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0128	1.0500e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0407	0.0282	0.3379	9.3000e-004	0.1118	5.9000e-004	0.1124	0.0296	5.4000e-004	0.0302		94.4478	94.4478	2.7200e-003	2.7000e-003	95.3195
<b>Total</b>	<b>0.0440</b>	<b>0.1201</b>	<b>0.3712</b>	<b>1.3000e-003</b>	<b>0.1246</b>	<b>1.6400e-003</b>	<b>0.1262</b>	<b>0.0333</b>	<b>1.5400e-003</b>	<b>0.0349</b>		<b>134.5057</b>	<b>134.5057</b>	<b>3.7900e-003</b>	<b>8.6300e-003</b>	<b>137.1719</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	1.5592	16.2327	11.4517	0.0196		0.8003	0.8003		0.7363	0.7363	0.0000	1,902.8699	1,902.8699	0.6154		1,918.2556
<b>Total</b>	<b>1.5592</b>	<b>16.2327</b>	<b>11.4517</b>	<b>0.0196</b>	<b>2.8011</b>	<b>0.8003</b>	<b>3.6014</b>	<b>1.4396</b>	<b>0.7363</b>	<b>2.1759</b>	<b>0.0000</b>	<b>1,902.8699</b>	<b>1,902.8699</b>	<b>0.6154</b>		<b>1,918.2556</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0120	1.0500e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0407	0.0282	0.3379	9.3000e-004	0.1030	5.9000e-004	0.1036	0.0275	5.4000e-004	0.0280		94.4478	94.4478	2.7200e-003	2.7000e-003	95.3195
<b>Total</b>	<b>0.0440</b>	<b>0.1201</b>	<b>0.3712</b>	<b>1.3000e-003</b>	<b>0.1150</b>	<b>1.6400e-003</b>	<b>0.1167</b>	<b>0.0310</b>	<b>1.5400e-003</b>	<b>0.0325</b>		<b>134.5057</b>	<b>134.5057</b>	<b>3.7900e-003</b>	<b>8.6300e-003</b>	<b>137.1719</b>

Redlands East Valley HS Field - San Bernardino-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 Utility Trenching - 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	0.7615	7.7405	8.1148	0.0223		0.2826	0.2826		0.2600	0.2600		2,153.8750	2,153.8750	0.6966		2,171.2901
<b>Total</b>	<b>0.7615</b>	<b>7.7405</b>	<b>8.1148</b>	<b>0.0223</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>		<b>2,153.8750</b>	<b>2,153.8750</b>	<b>0.6966</b>		<b>2,171.2901</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0407	0.0282	0.3379	9.3000e-004	0.1118	5.9000e-004	0.1124	0.0296	5.4000e-004	0.0302		94.4478	94.4478	2.7200e-003	2.7000e-003	95.3195
<b>Total</b>	<b>0.0407</b>	<b>0.0282</b>	<b>0.3379</b>	<b>9.3000e-004</b>	<b>0.1118</b>	<b>5.9000e-004</b>	<b>0.1124</b>	<b>0.0296</b>	<b>5.4000e-004</b>	<b>0.0302</b>		<b>94.4478</b>	<b>94.4478</b>	<b>2.7200e-003</b>	<b>2.7000e-003</b>	<b>95.3195</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7615	7.7405	8.1148	0.0223		0.2826	0.2826		0.2600	0.2600	0.0000	2,153.8750	2,153.8750	0.6966		2,171.2901
<b>Total</b>	<b>0.7615</b>	<b>7.7405</b>	<b>8.1148</b>	<b>0.0223</b>		<b>0.2826</b>	<b>0.2826</b>		<b>0.2600</b>	<b>0.2600</b>	<b>0.0000</b>	<b>2,153.8750</b>	<b>2,153.8750</b>	<b>0.6966</b>		<b>2,171.2901</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0407	0.0282	0.3379	9.3000e-004	0.1030	5.9000e-004	0.1036	0.0275	5.4000e-004	0.0280		94.4478	94.4478	2.7200e-003	2.7000e-003	95.3195
<b>Total</b>	<b>0.0407</b>	<b>0.0282</b>	<b>0.3379</b>	<b>9.3000e-004</b>	<b>0.1030</b>	<b>5.9000e-004</b>	<b>0.1036</b>	<b>0.0275</b>	<b>5.4000e-004</b>	<b>0.0280</b>		<b>94.4478</b>	<b>94.4478</b>	<b>2.7200e-003</b>	<b>2.7000e-003</b>	<b>95.3195</b>



Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**3.7 Fine 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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3973	13.6737	10.8673	0.0211		0.6332	0.6332		0.5825	0.5825		2,046.4937	2,046.4937	0.6619		2,063.0406
<b>Total</b>	<b>1.3973</b>	<b>13.6737</b>	<b>10.8673</b>	<b>0.0211</b>	<b>7.0826</b>	<b>0.6332</b>	<b>7.7157</b>	<b>3.4247</b>	<b>0.5825</b>	<b>4.0072</b>		<b>2,046.4937</b>	<b>2,046.4937</b>	<b>0.6619</b>		<b>2,063.0406</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0128	1.0500e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0407	0.0282	0.3379	9.3000e-004	0.1118	5.9000e-004	0.1124	0.0296	5.4000e-004	0.0302		94.4478	94.4478	2.7200e-003	2.7000e-003	95.3195
<b>Total</b>	<b>0.0440</b>	<b>0.1201</b>	<b>0.3712</b>	<b>1.3000e-003</b>	<b>0.1246</b>	<b>1.6400e-003</b>	<b>0.1262</b>	<b>0.0333</b>	<b>1.5400e-003</b>	<b>0.0349</b>		<b>134.5057</b>	<b>134.5057</b>	<b>3.7900e-003</b>	<b>8.6300e-003</b>	<b>137.1719</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0278	0.0000	3.0278	1.4641	0.0000	1.4641			0.0000			0.0000
Off-Road	1.3973	13.6737	10.8673	0.0211		0.6332	0.6332		0.5825	0.5825	0.0000	2,046.4937	2,046.4937	0.6619		2,063.0406
<b>Total</b>	<b>1.3973</b>	<b>13.6737</b>	<b>10.8673</b>	<b>0.0211</b>	<b>3.0278</b>	<b>0.6332</b>	<b>3.6610</b>	<b>1.4641</b>	<b>0.5825</b>	<b>2.0466</b>	<b>0.0000</b>	<b>2,046.4937</b>	<b>2,046.4937</b>	<b>0.6619</b>		<b>2,063.0406</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0120	1.0500e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0407	0.0282	0.3379	9.3000e-004	0.1030	5.9000e-004	0.1036	0.0275	5.4000e-004	0.0280		94.4478	94.4478	2.7200e-003	2.7000e-003	95.3195
<b>Total</b>	<b>0.0440</b>	<b>0.1201</b>	<b>0.3712</b>	<b>1.3000e-003</b>	<b>0.1150</b>	<b>1.6400e-003</b>	<b>0.1167</b>	<b>0.0310</b>	<b>1.5400e-003</b>	<b>0.0325</b>		<b>134.5057</b>	<b>134.5057</b>	<b>3.7900e-003</b>	<b>8.6300e-003</b>	<b>137.1719</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**3.8 Building Construction and Finishing/Landscaping - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6193	26.1179	20.8086	0.0507		1.1594	1.1594		1.0666	1.0666		4,911.2427	4,911.2427	1.5884		4,950.9526
<b>Total</b>	<b>2.6193</b>	<b>26.1179</b>	<b>20.8086</b>	<b>0.0507</b>		<b>1.1594</b>	<b>1.1594</b>		<b>1.0666</b>	<b>1.0666</b>		<b>4,911.2427</b>	<b>4,911.2427</b>	<b>1.5884</b>		<b>4,950.9526</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0670	1.8388	0.6655	7.4700e-003	0.2563	0.0209	0.2772	0.0738	0.0200	0.0938		801.1581	801.1581	0.0215	0.1186	837.0480
Worker	0.3132	0.2172	2.6020	7.2000e-003	0.8607	4.5100e-003	0.8652	0.2283	4.1500e-003	0.2324		727.2482	727.2482	0.0210	0.0208	733.9600
<b>Total</b>	<b>0.3802</b>	<b>2.0560</b>	<b>3.2675</b>	<b>0.0147</b>	<b>1.1170</b>	<b>0.0254</b>	<b>1.1424</b>	<b>0.3021</b>	<b>0.0242</b>	<b>0.3262</b>		<b>1,528.4062</b>	<b>1,528.4062</b>	<b>0.0425</b>	<b>0.1394</b>	<b>1,571.0080</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.6193	26.1179	20.8086	0.0507		1.1594	1.1594		1.0666	1.0666	0.0000	4,911.2427	4,911.2427	1.5884		4,950.9526
<b>Total</b>	<b>2.6193</b>	<b>26.1179</b>	<b>20.8086</b>	<b>0.0507</b>		<b>1.1594</b>	<b>1.1594</b>		<b>1.0666</b>	<b>1.0666</b>	<b>0.0000</b>	<b>4,911.2427</b>	<b>4,911.2427</b>	<b>1.5884</b>		<b>4,950.9526</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0670	1.8388	0.6655	7.4700e-003	0.2399	0.0209	0.2608	0.0698	0.0200	0.0898		801.1581	801.1581	0.0215	0.1186	837.0480
Worker	0.3132	0.2172	2.6020	7.2000e-003	0.7933	4.5100e-003	0.7979	0.2117	4.1500e-003	0.2159		727.2482	727.2482	0.0210	0.0208	733.9600
<b>Total</b>	<b>0.3802</b>	<b>2.0560</b>	<b>3.2675</b>	<b>0.0147</b>	<b>1.0332</b>	<b>0.0254</b>	<b>1.0586</b>	<b>0.2815</b>	<b>0.0242</b>	<b>0.3056</b>		<b>1,528.4062</b>	<b>1,528.4062</b>	<b>0.0425</b>	<b>0.1394</b>	<b>1,571.0080</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**3.9 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	1.7916	18.1214	13.3792	0.0285		0.8637	0.8637		0.7946	0.7946		2,755.9846	2,755.9846	0.8913		2,778.2682
<b>Total</b>	<b>1.7916</b>	<b>18.1214</b>	<b>13.3792</b>	<b>0.0285</b>		<b>0.8637</b>	<b>0.8637</b>		<b>0.7946</b>	<b>0.7946</b>		<b>2,755.9846</b>	<b>2,755.9846</b>	<b>0.8913</b>		<b>2,778.2682</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.3791	0.4991	5.6000e-003	0.1922	0.0157	0.2079	0.0554	0.0150	0.0703		600.8685	600.8685	0.0161	0.0890	627.7860
Worker	0.3132	0.2172	2.6020	7.2000e-003	0.8607	4.5100e-003	0.8652	0.2283	4.1500e-003	0.2324		727.2482	727.2482	0.0210	0.0208	733.9600
<b>Total</b>	<b>0.3634</b>	<b>1.5963</b>	<b>3.1011</b>	<b>0.0128</b>	<b>1.0529</b>	<b>0.0202</b>	<b>1.0731</b>	<b>0.2836</b>	<b>0.0192</b>	<b>0.3028</b>		<b>1,328.1167</b>	<b>1,328.1167</b>	<b>0.0371</b>	<b>0.1097</b>	<b>1,361.7460</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7916	18.1214	13.3792	0.0285		0.8637	0.8637		0.7946	0.7946	0.0000	2,755.9846	2,755.9846	0.8913		2,778.2681
<b>Total</b>	<b>1.7916</b>	<b>18.1214</b>	<b>13.3792</b>	<b>0.0285</b>		<b>0.8637</b>	<b>0.8637</b>		<b>0.7946</b>	<b>0.7946</b>	<b>0.0000</b>	<b>2,755.9846</b>	<b>2,755.9846</b>	<b>0.8913</b>		<b>2,778.2681</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0502	1.3791	0.4991	5.6000e-003	0.1799	0.0157	0.1956	0.0523	0.0150	0.0673		600.8685	600.8685	0.0161	0.0890	627.7860
Worker	0.3132	0.2172	2.6020	7.2000e-003	0.7933	4.5100e-003	0.7979	0.2117	4.1500e-003	0.2159		727.2482	727.2482	0.0210	0.0208	733.9600
<b>Total</b>	<b>0.3634</b>	<b>1.5963</b>	<b>3.1011</b>	<b>0.0128</b>	<b>0.9732</b>	<b>0.0202</b>	<b>0.9934</b>	<b>0.2641</b>	<b>0.0192</b>	<b>0.2832</b>		<b>1,328.1167</b>	<b>1,328.1167</b>	<b>0.0371</b>	<b>0.1097</b>	<b>1,361.7460</b>

Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**3.10 Asphalt 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	0.4765	4.5220	3.1330	9.9200e-003		0.1733	0.1733		0.1595	0.1595		959.9368	959.9368	0.3105		967.6984
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4765</b>	<b>4.5220</b>	<b>3.1330</b>	<b>9.9200e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1595</b>	<b>0.1595</b>		<b>959.9368</b>	<b>959.9368</b>	<b>0.3105</b>		<b>967.6984</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0235	0.6436	0.2329	2.6200e-003	0.0897	7.3200e-003	0.0970	0.0258	7.0000e-003	0.0328		280.4053	280.4053	7.5200e-003	0.0415	292.9668
Worker	0.0203	0.0141	0.1690	4.7000e-004	0.0559	2.9000e-004	0.0562	0.0148	2.7000e-004	0.0151		47.2239	47.2239	1.3600e-003	1.3500e-003	47.6597
<b>Total</b>	<b>0.0438</b>	<b>0.6577</b>	<b>0.4019</b>	<b>3.0900e-003</b>	<b>0.1456</b>	<b>7.6100e-003</b>	<b>0.1532</b>	<b>0.0407</b>	<b>7.2700e-003</b>	<b>0.0479</b>		<b>327.6292</b>	<b>327.6292</b>	<b>8.8800e-003</b>	<b>0.0429</b>	<b>340.6266</b>

**Mitigated Construction On-Site**

Redlands East Valley HS Field - San Bernardino-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
Category	lb/day										lb/day					
Off-Road	0.4765	4.5220	3.1330	9.9200e-003		0.1733	0.1733		0.1595	0.1595	0.0000	959.9368	959.9368	0.3105		967.6984
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4765</b>	<b>4.5220</b>	<b>3.1330</b>	<b>9.9200e-003</b>		<b>0.1733</b>	<b>0.1733</b>		<b>0.1595</b>	<b>0.1595</b>	<b>0.0000</b>	<b>959.9368</b>	<b>959.9368</b>	<b>0.3105</b>		<b>967.6984</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0235	0.6436	0.2329	2.6200e-003	0.0840	7.3200e-003	0.0913	0.0244	7.0000e-003	0.0314		280.4053	280.4053	7.5200e-003	0.0415	292.9668
Worker	0.0203	0.0141	0.1690	4.7000e-004	0.0515	2.9000e-004	0.0518	0.0138	2.7000e-004	0.0140		47.2239	47.2239	1.3600e-003	1.3500e-003	47.6597
<b>Total</b>	<b>0.0438</b>	<b>0.6577</b>	<b>0.4019</b>	<b>3.0900e-003</b>	<b>0.1355</b>	<b>7.6100e-003</b>	<b>0.1431</b>	<b>0.0382</b>	<b>7.2700e-003</b>	<b>0.0454</b>		<b>327.6292</b>	<b>327.6292</b>	<b>8.8800e-003</b>	<b>0.0429</b>	<b>340.6266</b>

**3.11 Architectural Coating - 2022**



Redlands East Valley HS Field - San Bernardino-South Coast County, Winter

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

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.7728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>2.9774</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0610	0.0423	0.5069	1.4000e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0610</b>	<b>0.0423</b>	<b>0.5069</b>	<b>1.4000e-003</b>	<b>0.1677</b>	<b>8.8000e-004</b>	<b>0.1685</b>	<b>0.0445</b>	<b>8.1000e-004</b>	<b>0.0453</b>		<b>141.6717</b>	<b>141.6717</b>	<b>4.0800e-003</b>	<b>4.0400e-003</b>	<b>142.9792</b>

**Mitigated Construction On-Site**

Redlands East Valley HS Field - San Bernardino-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
Category	lb/day										lb/day					
Archit. Coating	2.7728					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>2.9774</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0610	0.0423	0.5069	1.4000e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0610</b>	<b>0.0423</b>	<b>0.5069</b>	<b>1.4000e-003</b>	<b>0.1546</b>	<b>8.8000e-004</b>	<b>0.1554</b>	<b>0.0413</b>	<b>8.1000e-004</b>	<b>0.0421</b>		<b>141.6717</b>	<b>141.6717</b>	<b>4.0800e-003</b>	<b>4.0400e-003</b>	<b>142.9792</b>

**CalEEMod Mitigated Construction Model  
(Site Preparation Phase Only)**

Redlands East Valley HS Field, Mitigated Site Preparation Phase - San Bernardino-South Coast County, Winter

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

**Redlands East Valley HS Field, Mitigated Site Preparation Phase  
San Bernardino-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	5.42	1000sqft	0.00	5,417.00	0
Other Non-Asphalt Surfaces	177.06	1000sqft	4.06	177,063.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	32
<b>Climate Zone</b>	10			<b>Operational Year</b>	2023
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	509.98	<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 - Based on 2020 Sustainability Report.

Land Use - Based on applicant info. (see assumptions file).

Construction Phase - Compiled "worst-case" scenario of the Proposed Phases 1-3 for year 2022 to model highest peak daily emissions (see assumptions file).

Off-road Equipment - Based on equipment mix provided by District, used default HP for Terex Jaw Plant Crusher as worst-case scenario

Off-road Equipment - Based on equipment mix provided by District

Trips and VMT - Assume 2 vt/day/water truck, accounted for dump trucks based on applicant's equipment mix, see assumptions file

Demolition -

Grading -

Architectural Coating -

Redlands East Valley HS Field, Mitigated Site Preparation Phase - San Bernardino-South Coast County, Winter

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

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and SCAQMD Rule 1186, MM: water 3x/day, add non-toxic soil stabilizer, tier 4 interim equipment

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblLandUse	LandUseSquareFeet	5,420.00	5,417.00
tblLandUse	LandUseSquareFeet	177,060.00	177,063.00
tblLandUse	LotAcreage	0.12	0.00
tblOffRoadEquipment	HorsePower	247.00	135.00
tblOffRoadEquipment	HorsePower	247.00	217.00
tblOffRoadEquipment	HorsePower	80.00	121.00
tblOffRoadEquipment	HorsePower	203.00	193.00
tblOffRoadEquipment	HorsePower	65.00	111.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	390.98	509.98
tblTripsAndVMT	VendorTripNumber	0.00	2.00



Redlands East Valley HS Field, Mitigated Site Preparation Phase - San Bernardino-South Coast County, Winter

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/5/2022	3/11/2022	5	5	c

**Acres of Grading (Site Preparation Phase): 7.5**

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

**Acres of Paving: 4.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rollers	1	8.00	121	0.38
Site Preparation	Rubber Tired Dozers	2	8.00	135	0.40
Site Preparation	Rubber Tired Dozers	1	8.00	217	0.40
Site Preparation	Rubber Tired Loaders	1	8.00	193	0.36
Site Preparation	Skid Steer Loaders	1	8.00	111	0.37
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	6	15.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Redlands East Valley HS Field, Mitigated Site Preparation Phase - San Bernardino-South Coast County, Winter

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

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved 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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			0.0000			0.0000
Off-Road	2.4079	24.6400	16.4809	0.0302		1.2076	1.2076		1.1110	1.1110		2,930.0511	2,930.0511	0.9476		2,953.7421
<b>Total</b>	<b>2.4079</b>	<b>24.6400</b>	<b>16.4809</b>	<b>0.0302</b>	<b>19.6570</b>	<b>1.2076</b>	<b>20.8647</b>	<b>10.1025</b>	<b>1.1110</b>	<b>11.2135</b>		<b>2,930.0511</b>	<b>2,930.0511</b>	<b>0.9476</b>		<b>2,953.7421</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0128	1.0500e-003	0.0139	3.6900e-003	1.0000e-003	4.6900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0610	0.0423	0.5069	1.4000e-003	0.1677	8.8000e-004	0.1685	0.0445	8.1000e-004	0.0453		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0644</b>	<b>0.1343</b>	<b>0.5402</b>	<b>1.7700e-003</b>	<b>0.1805</b>	<b>1.9300e-003</b>	<b>0.1824</b>	<b>0.0482</b>	<b>1.8100e-003</b>	<b>0.0500</b>		<b>181.7296</b>	<b>181.7296</b>	<b>5.1500e-003</b>	<b>9.9700e-003</b>	<b>184.8316</b>



Redlands East Valley HS Field, Mitigated Site Preparation Phase - San Bernardino-South Coast County, Winter

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

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.2829	0.0000	7.2829	3.7430	0.0000	3.7430			0.0000			0.0000
Off-Road	0.4631	10.9446	19.8947	0.0302		0.0496	0.0496		0.0496	0.0496	0.0000	2,930.0511	2,930.0511	0.9476		2,953.7421
<b>Total</b>	<b>0.4631</b>	<b>10.9446</b>	<b>19.8947</b>	<b>0.0302</b>	<b>7.2829</b>	<b>0.0496</b>	<b>7.3325</b>	<b>3.7430</b>	<b>0.0496</b>	<b>3.7925</b>	<b>0.0000</b>	<b>2,930.0511</b>	<b>2,930.0511</b>	<b>0.9476</b>		<b>2,953.7421</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3500e-003	0.0919	0.0333	3.7000e-004	0.0120	1.0500e-003	0.0130	3.4900e-003	1.0000e-003	4.4900e-003		40.0579	40.0579	1.0700e-003	5.9300e-003	41.8524
Worker	0.0610	0.0423	0.5069	1.4000e-003	0.1546	8.8000e-004	0.1554	0.0413	8.1000e-004	0.0421		141.6717	141.6717	4.0800e-003	4.0400e-003	142.9792
<b>Total</b>	<b>0.0644</b>	<b>0.1343</b>	<b>0.5402</b>	<b>1.7700e-003</b>	<b>0.1665</b>	<b>1.9300e-003</b>	<b>0.1685</b>	<b>0.0447</b>	<b>1.8100e-003</b>	<b>0.0465</b>		<b>181.7296</b>	<b>181.7296</b>	<b>5.1500e-003</b>	<b>9.9700e-003</b>	<b>184.8316</b>

# **LST Worksheets**

## Construction Localized Significance Thresholds - Asphalt Demolition

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.00	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	8	1	0.5
<b>NOx</b>	<b>118</b>	Graders	0.5	0.0625			0
<b>CO</b>	<b>775</b>	Dozers	0.5	0.0625	8	1	0.5
<b>PM10</b>	<b>4.00</b>	Scrapers	1	0.125			0
<b>PM2.5</b>	<b>4.00</b>					<b>Acres</b>	1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	1	118	148	211	334	651
	1	118	148	211	334	651
CO	1	775	1205	2279	5351	21703
	1	775	1205	2279	5351	21703
	1	775	1205	2279	5351	21703
PM10	1	4	12	36	82	220
	1	4	12	36	82	220
	1	4	12	36	82	220
PM2.5	1	4	5	10	26	112
	1	4	5	10	26	112
	1	4	5	10	26	112

East San Bernardino Valley

**1.00 Acres**

	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	118	148	211	334	651
CO	775	1205	2279	5351	21703
PM10	4	12	36	82	220
PM2.5	4	5	10	26	112

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Asphalt Demolition Debris Haul

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.00	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	8	1	0.5
<b>NOx</b>	<b>118</b>	Graders	0.5	0.0625			0
<b>CO</b>	<b>775</b>	Dozers	0.5	0.0625	8	1	0.5
<b>PM10</b>	<b>4.00</b>	Scrapers	1	0.125			0
<b>PM2.5</b>	<b>4.00</b>						1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	1	118	148	211	334	651
	1	118	148	211	334	651
CO	1	775	1205	2279	5351	21703
	1	775	1205	2279	5351	21703
	1	775	1205	2279	5351	21703
PM10	1	4	12	36	82	220
	1	4	12	36	82	220
	1	4	12	36	82	220
PM2.5	1	4	5	10	26	112
	1	4	5	10	26	112
	1	4	5	10	26	112

East San Bernardino Valley

**1.00 Acres**

	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	118	148	211	334	651
CO	775	1205	2279	5351	21703
PM10	4	12	36	82	220
PM2.5	4	5	10	26	112

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Site Preparation

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	2.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25	Tractors	0.5	0.0625	8	2	1
<b>NOx</b>	<b>187</b>	Graders	0.5	0.0625			0
<b>CO</b>	<b>1,324</b>	Dozers	0.5	0.0625	8	3	1.5
<b>PM10</b>	<b>8.16</b>	Scrapers	1	0.125			0
<b>PM2.5</b>	<b>5.67</b>					<b>Acres</b>	2.50

	Acres	25	50	100	200	500
NOx	2	170	200	263	377	683
	3	203	234	301	413	715
CO	2	187	217	282	395	699
	3	1174	1712	3029	6375	23294
PM10	2	1474	2105	3608	7265	24746
	3	1324	1908	3318	6820	24020
PM2.5	2	7	21	44	90	230
	3	9	28	51	98	238
		8	25	48	94	234
	2	5	7	13	30	120
	3	6	9	15	33	127
		6	8	14	32	123
East San Bernardino Valley						
<b>2.50 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	187	217	282	395	699	
CO	1324	1908	3318	6820	24020	
PM10	8	25	48	94	234	
PM2.5	6	8	14	32	123	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	2	35	3
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Rough Grading

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	8	1	0.5
<b>NOx</b>	<b>144</b>	Graders	0.5			0
<b>CO</b>	<b>974</b>	Dozers	0.5	8	2	1
<b>PM10</b>	<b>5.50</b>	Scrapers	1			0
<b>PM2.5</b>	<b>4.50</b>				<b>Acres</b>	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	2	170	200	263	377	683
CO	1	144	174	237	356	667
	2	775	1205	2279	5351	21703
PM10	1	1174	1712	3029	6375	23294
	2	975	1459	2654	5863	22499
PM2.5	1	4	12	36	82	220
	2	7	21	44	90	230
	1	6	17	40	86	225
	2	4	5	10	26	112
East San Bernardino Valley	1	5	7	13	30	120
	2	5	6	12	28	116
<b>1.50 Acres</b>						
NOx	25	50	100	200	500	
	144	174	237	356	667	
CO	975	1459	2654	5863	22499	
	6	17	40	86	225	
PM10	5	6	12	28	116	
	4	5	10	26	112	
PM2.5	5	6	12	28	116	
	4	5	10	26	112	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Utility Trenching

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.00	25	82	4.13

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	8	2	1
<b>NOx</b>	<b>118</b>	Graders	0.5			0
<b>CO</b>	<b>775</b>	Dozers	0.5			0
<b>PM10</b>	<b>4.00</b>	Scrapers	1			0
<b>PM2.5</b>	<b>4.00</b>				<b>Acres</b>	1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	1	118	148	211	334	651
	1	118	148	211	334	651
CO	1	775	1205	2279	5351	21703
	1	775	1205	2279	5351	21703
	1	775	1205	2279	5351	21703
PM10	1	4	12	36	82	220
	1	4	12	36	82	220
	1	4	12	36	82	220
PM2.5	1	4	5	10	26	112
	1	4	5	10	26	112
	1	4	5	10	26	112
East San Bernardino Valley						
<b>1.00 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	118	148	211	334	651	
CO	775	1205	2279	5351	21703	
PM10	4	12	36	82	220	
PM2.5	4	5	10	26	112	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Fine Grading

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	8	1	0.5
<b>NOx</b>	<b>144</b>	Graders	0.5	0.0625	8	1	0.5
<b>CO</b>	<b>974</b>	Dozers	0.5	0.0625	8	1	0.5
<b>PM10</b>	<b>5.50</b>	Scrapers	1	0.125			0
<b>PM2.5</b>	<b>4.50</b>					<b>Acres</b>	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	2	170	200	263	377	683
CO	1	144	174	237	356	667
	2	775	1205	2279	5351	21703
PM10	1	1174	1712	3029	6375	23294
	2	975	1459	2654	5863	22499
PM2.5	1	4	12	36	82	220
	2	7	21	44	90	230
		6	17	40	86	225
	1	4	5	10	26	112
	2	5	7	13	30	120
		5	6	12	28	116

East San Bernardino Valley

**1.50 Acres**

	25	50	100	200	500
NOx	144	174	237	356	667
CO	975	1459	2654	5863	22499
PM10	6	17	40	86	225
PM2.5	5	6	12	28	116

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



## Construction Localized Significance Thresholds - Building Construction, Finishing/Landscaping

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	8	1	0.5
<b>NOx</b>	<b>144</b>	Graders	0.5			0
<b>CO</b>	<b>974</b>	Dozers	0.5	8	2	1
<b>PM10</b>	<b>5.50</b>	Scrapers	1			0
<b>PM2.5</b>	<b>4.50</b>				<b>Acres</b>	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	2	170	200	263	377	683
CO	1	144	174	237	356	667
	2	775	1205	2279	5351	21703
PM10	1	1174	1712	3029	6375	23294
	2	975	1459	2654	5863	22499
PM2.5	1	4	12	36	82	220
	2	7	21	44	90	230
		6	17	40	86	225
	1	4	5	10	26	112
	2	5	7	13	30	120
		5	6	12	28	116

East San Bernardino Valley

**1.50 Acres**

	25	50	100	200	500
NOx	144	174	237	356	667
CO	975	1459	2654	5863	22499
PM10	6	17	40	86	225
PM2.5	5	6	12	28	116

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Building Construction

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	8	1	0.5
<b>NOx</b>	<b>144</b>	Graders	0.5			0
<b>CO</b>	<b>974</b>	Dozers	0.5	8	2	1
<b>PM10</b>	<b>5.50</b>	Scrapers	1			0
<b>PM2.5</b>	<b>4.50</b>				<b>Acres</b>	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	2	170	200	263	377	683
CO	1	144	174	237	356	667
	2	775	1205	2279	5351	21703
PM10	1	1174	1712	3029	6375	23294
	2	975	1459	2654	5863	22499
PM2.5	1	4	12	36	82	220
	2	7	21	44	90	230
	1	6	17	40	86	225
	2	4	5	10	26	112
East San Bernardino Valley	1	5	7	13	30	120
	2	5	6	12	28	116
<b>1.50 Acres</b>						
NOx	25	50	100	200	500	
	144	174	237	356	667	
CO	975	1459	2654	5863	22499	
	6	17	40	86	225	
PM10	5	6	12	28	116	
	4	5	10	26	112	
PM2.5	5	6	12	28	116	
	4	5	10	26	112	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Building Construction, Asphalt Paving

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	8	1	0.5
<b>NOx</b>	<b>144</b>	Graders	0.5			0
<b>CO</b>	<b>974</b>	Dozers	0.5	8	2	1
<b>PM10</b>	<b>5.50</b>	Scrapers	1			0
<b>PM2.5</b>	<b>4.50</b>				<b>Acres</b>	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	2	170	200	263	377	683
CO	1	144	174	237	356	667
	2	775	1205	2279	5351	21703
PM10	1	1174	1712	3029	6375	23294
	2	975	1459	2654	5863	22499
PM2.5	1	4	12	36	82	220
	2	7	21	44	90	230
		6	17	40	86	225
	1	4	5	10	26	112
	2	5	7	13	30	120
		5	6	12	28	116

East San Bernardino Valley

**1.50 Acres**

	25	50	100	200	500
NOx	144	174	237	356	667
CO	975	1459	2654	5863	22499
PM10	6	17	40	86	225
PM2.5	5	6	12	28	116

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

## Construction Localized Significance Thresholds - Building Construction, Architectural Coating

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
35	1.50	25	82	4.06

Source Receptor Distance (meters)	East San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	8	1	0.5
<b>NOx</b>	<b>144</b>	Graders	0.5			0
<b>CO</b>	<b>974</b>	Dozers	0.5	8	2	1
<b>PM10</b>	<b>5.50</b>	Scrapers	1			0
<b>PM2.5</b>	<b>4.50</b>				<b>Acres</b>	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	651
	2	170	200	263	377	683
CO	1	144	174	237	356	667
	2	775	1205	2279	5351	21703
PM10	1	1174	1712	3029	6375	23294
	2	975	1459	2654	5863	22499
PM2.5	1	4	12	36	82	220
	2	7	21	44	90	230
		6	17	40	86	225
	1	4	5	10	26	112
	2	5	7	13	30	120
		5	6	12	28	116
East San Bernardino Valley						
<b>1.50 Acres</b>						
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	144	174	237	356	667	
CO	975	1459	2654	5863	22499	
PM10	6	17	40	86	225	
PM2.5	5	6	12	28	116	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
35	1	35	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008