

## **Appendix C      Air Quality Data**

## Appendices

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# **Assumptions Worksheet**

## CalEEMod Inputs - Del Norte High School Baseball and Softball Fiels Lighting Project, Construction

**Name:** Del Norte High School Baseball and Softball Fiels Lighting Project, Construction  
**Project Number:** POW-18  
**Project Location:** 16601 Nighthawk Lane in San Diego  
**County/Air Basin:** San Diego  
**Climate Zone:** 13  
**Land Use Setting:** Urban  
**Operational Year:** 2022  
**Utility Company:** San Diego Gas & Electric  
**Air Basin:** San Diego  
**Air District:** SDCAPCD

Project Site Acreage	5.90
Disturbed Site Acreage	0.02

Project Components	SQFT	Tons
<b>Demolition</b>		
Hardscape Demolition <sup>1</sup>	20.00	0.30
<b>New Construction</b>		
	<b>SQFT</b>	<b>ACRES</b>
New Surface Areas <sup>2</sup>	1,000	0.023

**Notes:**

<sup>1</sup> Conservative estimate based on tonnage of hardscape demolition of a past lighting project. Assume each light pole is 13 diameters (approximately 1 sqft) and there are four out of fourteen poles that will be located in hardscape.

<sup>2</sup> Conservative estimate based on data from a similar lighting project.

### CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
New Surface Area	Other Non-Asphalt Surface	1.00	1000 sqft	0.023	1,000
<b>Total</b>				<b>0.023</b>	<b>1000</b>

### Demolition

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (Tons) <sup>1</sup>	Haul Distance (miles) <sup>1</sup>	Total Trip Ends	Duration (days)	Trip Ends/Day
Hardscape Demolition Debris Haul	0.30	20	20	2	1	2
<b>Total</b>	<b>0.30</b>			<b>2</b>		

**Notes:**

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

**Soil Haul<sup>1</sup>**

Construction Activities	Volume (CY) <sup>1</sup>	Haul Truck Capacity (CY) <sup>2</sup>	Haul Distance (miles) <sup>2</sup>	Total Trip Ends	Total Days	Trip Ends/Day
Site Preparation Soil Haul (Export)	1,008	16	20	126	12	11
				126		

**Notes:**

<sup>1</sup> Conservative estimate based on volume of soil export of a past lighting project.

<sup>2</sup> CalEEMod default used.

**Construction Mitigation**

SDAPCD Rule 55

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:	15	mph
	Clean Paved Road	9	% PM Reduction

**San Diego Gas & Electricity Carbon Intensity Factors**

	lbs/MWH
CO <sub>2</sub> :	539.98
CH <sub>4</sub> :	0.033
N <sub>2</sub> O:	0.004

**Construction Activities and Schedule Assumptions: Del Norte High School Baseball and Softball Fiels Lighting Project, Construction**

**Construction Schedule**

<b>Construction Activities</b>	<b>Start Date</b>	<b>End Date</b>	<b>CalEEMod Duration (Workday)</b>
Demolition	9/6/2022	9/21/2022	12
Demolition Debris Haul	9/6/2022	9/6/2022	1
Site Preparation (pole bases)	9/6/2022	9/21/2022	12
Site Preparation Soil Haul	9/6/2022	9/21/2022	12
Light Pole Installation	9/13/2022	9/21/2022	7

**Overlapping Construction Schedule (CalEEMod)**

<b>Construction Activities</b>	<b>Start Date</b>	<b>End Date</b>	<b>CalEEMod Duration (Workday)</b>
Demolition Debris Haul	9/6/2022	9/6/2022	1
Demolition and Site Preparation	9/6/2022	9/21/2022	12
Site Preparation Soil Haul	9/6/2022	9/21/2022	12
Light Pole Installation	9/13/2022	9/21/2022	7

**Notes:**

<sup>1</sup> Construction duration and activities based on data from a similar lighting project.

**Overlapping Construction Schedule (For Emissions Worksheet)**

<b>Construction Activities</b>	<b>Start Date</b>	<b>End Date</b>	<b>CalEEMod Duration (Workday)</b>
Demolition and Debris Haul, Site Preparation and Soil Haul	9/6/2022	9/6/2022	1
Demolition, Site Preparation and Soil Haul	9/7/2022	9/12/2022	4
Demolition, Site Preparation and Soil Haul, and Light Pole Installation	9/13/2022	9/21/2022	7

## CalEEMod Construction Off-Road Equipment Inputs: Del Norte High School Baseball and Softball Fiels Lighting Project

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

### Water Truck Vendor Trip Calculation

Amount of Water (gal/acre/day) <sup>1</sup>	Water Truck Capacity (gallons) <sup>2</sup>
10,000	4,000

Notes:

- <sup>1</sup> Based on data provided in Guidance for Application for Dust Control Permit Maricopa County Air Quality Department, 2005, June. Guidance for Application of Dust Control Permit. [https://www.epa.gov/sites/default/files/2019-04/documents/mr\\_guidanceforapplicationfordustcontrolpermit.pdf](https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf)
- <sup>2</sup> Based on standard water truck capacity: McLellan Industries, 2022, January (access). Water Trucks. <https://www.mclellanindustries.com/trucks/water-trucks/>
- <sup>3</sup> Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

### Construction Equipment Details

Equipment	# of Equipment	hr/day	hp	load factor*	total trips/Day
<b>Demolition Debris Haul</b>					
No additional equipment required for asphalt demolition debris haul phase					
Worker Trips					0
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					2
<b>Demolition and Site Preparation</b>					
Bore/drill rigs (Auger)	2	8	221	0.5	
Concrete Saw	2	8	81	0.73	
Tractors/Loaders/Backhoe	2	8	97	0.37	
Worker Trips					15
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					0
Water Trucks		Acres Disturbed:	1.00		6
<b>Site Preparation Soil Haul</b>					
No additional equipment required for asphalt demolition debris haul phase					
Worker Trips					0
Vendor Trips					0
Hauling Trips (TOTAL TRIPS)					126
<b>Light Pole Installation</b>					
Tractors/Loaders/Backhoe	2	8	97	0.37	
Forklift	2	6	89	0.2	
Worker Trips			Worker Trip Rate <sup>2</sup> :	1.25	10
Vendor Trips					0
Hauling Trips					0

Notes:

- <sup>1</sup> Equipment mix based on data from a similar lighting project.
- <sup>2</sup> Worker trips based on the CalEEMod Appendix A worker trip rate of 1.25 workers per piece 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			
Demolition Debris Haul	0	0	1	2	9/6/2022	9/21/2022	12
Demolition and Site Preparation	15	6	0	0	9/6/2022	9/6/2022	1
Site Preparation Soil Haul	0	0	11	126	9/6/2022	9/21/2022	12
Light Pole Installation	10	0	0	0	9/6/2022	9/21/2022	12

***Overlapping Construction Schedule***

Construction Activities	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			
Demolition and Debris Haul, Site Preparation and Soil Haul	15	6	12	33	9/6/2022	9/6/2022	1
Demolition, Site Preparation and Soil Haul	15	6	11	32	9/7/2022	9/12/2022	4
Demolition, Site Preparation and Soil Haul, and Light Pole Installation	25	6	11	126	9/13/2022	9/21/2022	7
<b>Maximum Daily Trips</b>	<b>25</b>	<b>6</b>	<b>12</b>	<b>126</b>			



## Pavement Volume to Weight Conversion

<b>Component</b>	<b>Total SF of Area<sup>1</sup></b>	<b>Assumed Thickness (foot)<sup>2</sup></b>	<b>Debris Volume (cu. ft)</b>	<b>Weight of Crushed Asphalt (lbs/cf)<sup>3</sup></b>	<b>AC Mass (lbs)</b>	<b>AC Mass (tons)</b>
Asphalt Demo	20	0.333	7	89	593	0.30
<b>Total</b>	<b>20</b>					<b>0.30</b>

**Notes:**

<sup>1</sup> Based on information provided by applicant.

Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut

<sup>2</sup> Cooperative Extension System, 1999.

<sup>3</sup> <https://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations>

# Emissions Worksheet

# Regional Construction Emissions Worksheet (lbs per day)

Source: CalEEMod, Version 2020.4

Demolition and Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Winter</b>						
	Off-Road		1.49	13.49	15.89	0.04	0.63	0.60
	Total		<b>1.49</b>	<b>13.49</b>	<b>15.89</b>	<b>0.04</b>	<b>0.63</b>	<b>0.60</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.33	0.11	0.00	0.04	0.01
	Worker		0.05	0.03	0.37	0.00	0.11	0.03
	Total		<b>0.06</b>	<b>0.36</b>	<b>0.48</b>	<b>0.00</b>	<b>0.16</b>	<b>0.05</b>
<b>TOTAL</b>			<b>1.55</b>	<b>13.85</b>	<b>16.37</b>	<b>0.04</b>	<b>0.78</b>	<b>0.65</b>
Onsite		<b>2022</b>						
	Off-Road		1.49	13.49	15.89	0.04	0.63	0.60
	Total		<b>1.49</b>	<b>13.49</b>	<b>15.89</b>	<b>0.04</b>	<b>0.63</b>	<b>0.60</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.33	0.11	0.00	0.04	0.01
	Worker		0.05	0.03	0.37	0.00	0.11	0.03
	Total		<b>0.06</b>	<b>0.36</b>	<b>0.48</b>	<b>0.00</b>	<b>0.16</b>	<b>0.05</b>
<b>TOTAL</b>			<b>1.55</b>	<b>13.85</b>	<b>16.37</b>	<b>0.04</b>	<b>0.78</b>	<b>0.65</b>

Demolition Debris Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Winter</b>						
	Fugitive Dust						0.00	0.00
	Off-Road		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>0.00</b>	<b>0.00</b>
Offsite								
	Hauling		0.01	0.34	0.08	0.00	0.04	0.01
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		<b>0.01</b>	<b>0.34</b>	<b>0.08</b>	<b>0.00</b>	<b>0.04</b>	<b>0.01</b>
<b>TOTAL</b>			<b>0.01</b>	<b>0.34</b>	<b>0.08</b>	<b>0.00</b>	<b>0.04</b>	<b>0.01</b>
Onsite		<b>2022</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road		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>0.00</b>	<b>0.00</b>
Offsite								
	Hauling		0.01	0.34	0.08	0.00	0.04	0.01
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		<b>0.01</b>	<b>0.34</b>	<b>0.08</b>	<b>0.00</b>	<b>0.04</b>	<b>0.01</b>
<b>TOTAL</b>			<b>0.01</b>	<b>0.34</b>	<b>0.08</b>	<b>0.00</b>	<b>0.04</b>	<b>0.01</b>

Site Preparation Soil Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Winter</b>						
	Fugitive Dust						0.01	0.00
	Off-Road		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>0.01</b>	<b>0.00</b>
Offsite								
	Hauling		0.05	1.77	0.42	0.01	0.19	0.06
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		<b>0.05</b>	<b>1.77</b>	<b>0.42</b>	<b>0.01</b>	<b>0.19</b>	<b>0.06</b>
<b>TOTAL</b>			<b>0.05</b>	<b>1.77</b>	<b>0.42</b>	<b>0.01</b>	<b>0.19</b>	<b>0.06</b>
Onsite		<b>2022</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.01	0.00
	Off-Road		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>0.01</b>	<b>0.00</b>
Offsite								
	Hauling		0.05	1.77	0.42	0.01	0.19	0.06
	Vendor		0.00	0.00	0.00	0.00	0.00	0.00
	Worker		0.00	0.00	0.00	0.00	0.00	0.00
	Total		<b>0.05</b>	<b>1.77</b>	<b>0.42</b>	<b>0.01</b>	<b>0.19</b>	<b>0.06</b>
<b>TOTAL</b>			<b>0.05</b>	<b>1.77</b>	<b>0.42</b>	<b>0.01</b>	<b>0.19</b>	<b>0.06</b>

<b>Light Pole Installation</b>			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2022 Winter</b>						
	Off-Road		0.50	4.93	6.21	0.01	0.29	0.26
	Total		<b>0.50</b>	<b>4.93</b>	<b>6.21</b>	<b>0.01</b>	<b>0.29</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		0.03	0.02	0.25	0.00	0.08	0.02
	Total		<b>0.03</b>	<b>0.02</b>	<b>0.25</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>			<b>0.53</b>	<b>4.96</b>	<b>6.45</b>	<b>0.01</b>	<b>0.36</b>	<b>0.28</b>
Onsite		<b>2022</b>						
	Off-Road		0.50	4.93	6.21	0.01	0.29	0.26
	Total		<b>0.50</b>	<b>4.93</b>	<b>6.21</b>	<b>0.01</b>	<b>0.29</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		0.03	0.02	0.25	0.00	0.08	0.02
	Total		<b>0.03</b>	<b>0.02</b>	<b>0.25</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>			<b>0.53</b>	<b>4.96</b>	<b>6.45</b>	<b>0.01</b>	<b>0.36</b>	<b>0.28</b>

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
<i>Demolition and Debris Haul, Site Preparation and Soil Haul</i>	<b>2</b>	<b>16</b>	<b>17</b>	<b>0</b>	<b>1</b>	<b>1</b>
<i>Demolition, Site Preparation and Soil Haul</i>	<b>2</b>	<b>16</b>	<b>17</b>	<b>0</b>	<b>1</b>	<b>1</b>
<i>Demolition, Site Preparation and Soil Haul, and Light Pole Installation</i>	<b>2</b>	<b>21</b>	<b>23</b>	<b>0</b>	<b>1</b>	<b>1</b>

<b>MAX DAILY</b>	<b>2</b>	<b>21</b>	<b>23</b>	<b>0</b>	<b>1</b>	<b>1</b>
<b>Regional Thresholds</b>	<b>75</b>	<b>250</b>	<b>550</b>	<b>250</b>	<b>100</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

# GHG Emissions Inventory

Source: CalEEMod, Version 2020.4

## Construction

	<u>MTCO<sub>2</sub>e</u>
<b>Year 2022 Construction</b>	<b>28</b>
<b>30-Year Amortization<sup>1</sup></b>	<b>1</b>

### Notes:

1

Total construction emissions are amortized over 30 years per South Coast AQMD 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).

# **CalEEMod Construction Model**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Annual  
**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**  
**Del Norte High School Baseball and Softball Fiels Lighting Project, Construction**  
**San Diego County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -  
 Land Use -  
 Construction Phase - See assumptions file  
 Off-road Equipment - see assumptions file  
 Off-road Equipment - no equipment required for debris haul phase  
 Off-road Equipment - see assumptions file  
 Off-road Equipment - no equipment needed for soil haul phase  
 Trips and VMT - see assumptions file, added vendor trips based on acreage disturbed, added worker trips based on CalEEMod appendix A worker trip rate of 1.25 workers per piece of equipment  
 Demolition -  
 Grading - see assumptions file

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Annual

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

Construction Off-road Equipment Mitigation - SPAPCD Rule 55

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	7.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	1.00	12.00
tblGrading	MaterialExported	0.00	1,008.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00



Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Annual

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

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0114	0.1112	0.1233	3.1000e-004	2.4100e-003	4.8800e-003	7.2900e-003	6.5000e-004	4.6400e-003	5.2900e-003	0.0000	27.8759	27.8759	5.7200e-003	7.7000e-004	28.2483
Maximum	0.0114	0.1112	0.1233	3.1000e-004	2.4100e-003	4.8800e-003	7.2900e-003	6.5000e-004	4.6400e-003	5.2900e-003	0.0000	27.8759	27.8759	5.7200e-003	7.7000e-004	28.2483

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0114	0.1112	0.1233	3.1000e-004	2.2000e-003	4.8800e-003	7.0800e-003	6.0000e-004	4.6400e-003	5.2400e-003	0.0000	27.8758	27.8758	5.7200e-003	7.7000e-004	28.2483
Maximum	0.0114	0.1112	0.1233	3.1000e-004	2.2000e-003	4.8800e-003	7.0800e-003	6.0000e-004	4.6400e-003	5.2400e-003	0.0000	27.8758	27.8758	5.7200e-003	7.7000e-004	28.2483

	ROG	NOx	CO	SO2	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	8.71	0.00	2.88	7.69	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-6-2022	9-30-2022	0.1157	0.1157
		Highest	0.1157	0.1157

**3.0 Construction Detail**

**Construction Phase**

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

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition and Site Preparation	Demolition	9/6/2022	9/21/2022	5	12	
2	Demolition Debris Haul	Demolition	9/6/2022	9/6/2022	5	1	
3	Site Preparation Soil Haul	Site Preparation	9/6/2022	9/21/2022	5	12	
4	Light Pole Installation	Building Construction	9/13/2022	9/21/2022	5	7	

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

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

**Acres of Paving: 0.02**

**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
Demolition and Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50
Demolition and Site Preparation	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition and Site Preparation	Rubber Tired Dozers	0	1.00	247	0.40
Demolition and Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Debris Haul	Rubber Tired Dozers	0	1.00	247	0.40
Demolition Debris Haul	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Site Preparation Soil Haul	Graders	0	8.00	187	0.41
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Light Pole Installation	Cranes	0	4.00	231	0.29
Light Pole Installation	Forklifts	2	6.00	89	0.20
Light Pole Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

**Trips and VMT**

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition and Site Preparation	6	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Debris Haul	0	0.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	126.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Light Pole Installation	4	10.00	0.00	0.00	10.80	7.30	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

**3.2 Demolition and Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.9600e-003	0.0809	0.0953	2.3000e-004		3.7600e-003	3.7600e-003		3.6000e-003	3.6000e-003	0.0000	19.6765	19.6765	4.6300e-003	0.0000	19.7922
<b>Total</b>	<b>8.9600e-003</b>	<b>0.0809</b>	<b>0.0953</b>	<b>2.3000e-004</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>19.6765</b>	<b>19.6765</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>19.7922</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	8.0000e-005	1.9800e-003	6.5000e-004	1.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7507	0.7507	2.0000e-005	1.1000e-004	0.7838
Worker	2.6000e-004	1.9000e-004	2.2100e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.5897	0.5897	2.0000e-005	2.0000e-005	0.5953
<b>Total</b>	<b>3.4000e-004</b>	<b>2.1700e-003</b>	<b>2.8600e-003</b>	<b>2.0000e-005</b>	<b>9.6000e-004</b>	<b>2.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>2.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.3405</b>	<b>1.3405</b>	<b>4.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3791</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	8.9600e-003	0.0809	0.0953	2.3000e-004		3.7600e-003	3.7600e-003		3.6000e-003	3.6000e-003	0.0000	19.6764	19.6764	4.6300e-003	0.0000	19.7922
<b>Total</b>	<b>8.9600e-003</b>	<b>0.0809</b>	<b>0.0953</b>	<b>2.3000e-004</b>		<b>3.7600e-003</b>	<b>3.7600e-003</b>		<b>3.6000e-003</b>	<b>3.6000e-003</b>	<b>0.0000</b>	<b>19.6764</b>	<b>19.6764</b>	<b>4.6300e-003</b>	<b>0.0000</b>	<b>19.7922</b>

**Mitigated Construction Off-Site**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	8.0000e-005	1.9800e-003	6.5000e-004	1.0000e-005	2.2000e-004	2.0000e-005	2.4000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.7507	0.7507	2.0000e-005	1.1000e-004	0.7838
Worker	2.6000e-004	1.9000e-004	2.2100e-003	1.0000e-005	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5897	0.5897	2.0000e-005	2.0000e-005	0.5953
<b>Total</b>	<b>3.4000e-004</b>	<b>2.1700e-003</b>	<b>2.8600e-003</b>	<b>2.0000e-005</b>	<b>8.9000e-004</b>	<b>2.0000e-005</b>	<b>9.1000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.3405</b>	<b>1.3405</b>	<b>4.0000e-005</b>	<b>1.3000e-004</b>	<b>1.3791</b>

**3.3 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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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	1.7000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0627	0.0627	0.0000	1.0000e-005	0.0657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0657</b>

**Mitigated Construction On-Site**

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

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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	1.7000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0627	0.0627	0.0000	1.0000e-005	0.0657
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0627</b>	<b>0.0627</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0657</b>

**3.4 Site Preparation Soil 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					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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	2.8000e-004	0.0106	2.5000e-003	4.0000e-005	1.0800e-003	1.0000e-004	1.1800e-003	3.0000e-004	9.0000e-005	3.9000e-004	0.0000	3.9489	3.9489	1.9000e-004	6.3000e-004	4.1406
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-004</b>	<b>0.0106</b>	<b>2.5000e-003</b>	<b>4.0000e-005</b>	<b>1.0800e-003</b>	<b>1.0000e-004</b>	<b>1.1800e-003</b>	<b>3.0000e-004</b>	<b>9.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9489</b>	<b>3.9489</b>	<b>1.9000e-004</b>	<b>6.3000e-004</b>	<b>4.1406</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					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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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	2.8000e-004	0.0106	2.5000e-003	4.0000e-005	1.0100e-003	1.0000e-004	1.1000e-003	2.8000e-004	9.0000e-005	3.7000e-004	0.0000	3.9489	3.9489	1.9000e-004	6.3000e-004	4.1406
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.8000e-004</b>	<b>0.0106</b>	<b>2.5000e-003</b>	<b>4.0000e-005</b>	<b>1.0100e-003</b>	<b>1.0000e-004</b>	<b>1.1000e-003</b>	<b>2.8000e-004</b>	<b>9.0000e-005</b>	<b>3.7000e-004</b>	<b>0.0000</b>	<b>3.9489</b>	<b>3.9489</b>	<b>1.9000e-004</b>	<b>6.3000e-004</b>	<b>4.1406</b>

**3.5 Light Pole Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7500e-003	0.0173	0.0217	3.0000e-005		1.0000e-003	1.0000e-003		9.2000e-004	9.2000e-004	0.0000	2.6180	2.6180	8.5000e-004	0.0000	2.6392
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0173</b>	<b>0.0217</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.6180</b>	<b>2.6180</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.6392</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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	8.6000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2293	0.2293	1.0000e-005	1.0000e-005	0.2315
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2293</b>	<b>0.2293</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2315</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7500e-003	0.0173	0.0217	3.0000e-005		1.0000e-003	1.0000e-003		9.2000e-004	9.2000e-004	0.0000	2.6180	2.6180	8.5000e-004	0.0000	2.6392
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0173</b>	<b>0.0217</b>	<b>3.0000e-005</b>		<b>1.0000e-003</b>	<b>1.0000e-003</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.6180</b>	<b>2.6180</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>2.6392</b>

**Mitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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	1.0000e-004	7.0000e-005	8.6000e-004	0.0000	2.6000e-004	0.0000	2.6000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2293	0.2293	1.0000e-005	1.0000e-005	0.2315
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>2.6000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2293</b>	<b>0.2293</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2315</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**Del Norte High School Baseball and Softball Fiels Lighting Project, Construction  
San Diego County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - See assumptions file

Off-road Equipment - see assumptions file

Off-road Equipment - no equipment required for debris haul phase

Off-road Equipment - see assumptions file

Off-road Equipment - no equipment needed for soil haul phase

Trips and VMT - see assumptions file, added vendor trips based on acreage disturbed, added worker trips based on CalEEMod appendix A worker trip rate of 1.25 workers per piece of equipment

Demolition -

Grading - see assumptions file

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

Construction Off-road Equipment Mitigation - SPAPCD Rule 55

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	7.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	1.00	12.00
tblGrading	MaterialExported	0.00	1,008.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**2.0 Emissions Summary**

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

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1263	20.4920	23.2626	0.0559	0.4415	0.9322	1.3737	0.1183	0.8824	1.0007	0.0000	5,492.1358	5,492.1358	1.1617	0.1602	5,562.9440
Maximum	2.1263	20.4920	23.2626	0.0559	0.4415	0.9322	1.3737	0.1183	0.8824	1.0007	0.0000	5,492.1358	5,492.1358	1.1617	0.1602	5,562.9440

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1263	20.4920	23.2626	0.0559	0.4035	0.9322	1.3358	0.1096	0.8824	0.9920	0.0000	5,492.1358	5,492.1358	1.1617	0.1602	5,562.9440
Maximum	2.1263	20.4920	23.2626	0.0559	0.4035	0.9322	1.3358	0.1096	0.8824	0.9920	0.0000	5,492.1358	5,492.1358	1.1617	0.1602	5,562.9440

	ROG	NOx	CO	SO2	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	8.59	0.00	2.76	7.34	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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	Demolition and Site Preparation	Demolition	9/6/2022	9/21/2022	5	12	
2	Demolition Debris Haul	Demolition	9/6/2022	9/6/2022	5	1	
3	Site Preparation Soil Haul	Site Preparation	9/6/2022	9/21/2022	5	12	
4	Light Pole Installation	Building Construction	9/13/2022	9/21/2022	5	7	

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

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

**Acres of Paving: 0.02**

**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
Demolition and Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50
Demolition and Site Preparation	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition and Site Preparation	Rubber Tired Dozers	0	1.00	247	0.40
Demolition and Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Debris Haul	Rubber Tired Dozers	0	1.00	247	0.40
Demolition Debris Haul	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Site Preparation Soil Haul	Graders	0	8.00	187	0.41
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Light Pole Installation	Cranes	0	4.00	231	0.29
Light Pole Installation	Forklifts	2	6.00	89	0.20
Light Pole Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition and Site Preparation	6	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Debris Haul	0	0.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	126.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Light Pole Installation	4	10.00	0.00	0.00	10.80	7.30	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

**3.2 Demolition and Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4930	13.4864	15.8875	0.0376		0.6261	0.6261		0.6000	0.6000		3,614.9288	3,614.9288	0.8504		3,636.1898
<b>Total</b>	<b>1.4930</b>	<b>13.4864</b>	<b>15.8875</b>	<b>0.0376</b>		<b>0.6261</b>	<b>0.6261</b>		<b>0.6000</b>	<b>0.6000</b>		<b>3,614.9288</b>	<b>3,614.9288</b>	<b>0.8504</b>		<b>3,636.1898</b>



Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0134	0.3191	0.1067	1.2800e-003	0.0406	3.4700e-003	0.0441	0.0117	3.3200e-003	0.0150		137.8954	137.8954	4.1900e-003	0.0200	143.9649
Worker	0.0438	0.0285	0.3884	1.1200e-003	0.1232	7.0000e-004	0.1239	0.0327	6.4000e-004	0.0333		113.6562	113.6562	3.2800e-003	2.9500e-003	114.6171
<b>Total</b>	<b>0.0572</b>	<b>0.3476</b>	<b>0.4951</b>	<b>2.4000e-003</b>	<b>0.1639</b>	<b>4.1700e-003</b>	<b>0.1680</b>	<b>0.0444</b>	<b>3.9600e-003</b>	<b>0.0484</b>		<b>251.5516</b>	<b>251.5516</b>	<b>7.4700e-003</b>	<b>0.0230</b>	<b>258.5820</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4930	13.4864	15.8875	0.0376		0.6261	0.6261		0.6000	0.6000	0.0000	3,614.9288	3,614.9288	0.8504		3,636.1898
<b>Total</b>	<b>1.4930</b>	<b>13.4864</b>	<b>15.8875</b>	<b>0.0376</b>		<b>0.6261</b>	<b>0.6261</b>		<b>0.6000</b>	<b>0.6000</b>	<b>0.0000</b>	<b>3,614.9288</b>	<b>3,614.9288</b>	<b>0.8504</b>		<b>3,636.1898</b>

**Mitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
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	0.0134	0.3191	0.1067	1.2800e-003	0.0380	3.4700e-003	0.0415	0.0111	3.3200e-003	0.0144		137.8954	137.8954	4.1900e-003	0.0200	143.9649
Worker	0.0438	0.0285	0.3884	1.1200e-003	0.1136	7.0000e-004	0.1143	0.0303	6.4000e-004	0.0310		113.6562	113.6562	3.2800e-003	2.9500e-003	114.6171
<b>Total</b>	<b>0.0572</b>	<b>0.3476</b>	<b>0.4951</b>	<b>2.4000e-003</b>	<b>0.1516</b>	<b>4.1700e-003</b>	<b>0.1558</b>	<b>0.0414</b>	<b>3.9600e-003</b>	<b>0.0453</b>		<b>251.5516</b>	<b>251.5516</b>	<b>7.4700e-003</b>	<b>0.0230</b>	<b>258.5820</b>

**3.3 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					6.5000e-003	0.0000	6.5000e-003	9.8000e-004	0.0000	9.8000e-004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.5000e-003</b>	<b>0.0000</b>	<b>6.5000e-003</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>9.8000e-004</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9600e-003	0.3248	0.0790	1.2600e-003	0.0350	3.1300e-003	0.0381	9.5900e-003	2.9900e-003	0.0126		138.1639	138.1639	6.6400e-003	0.0220	144.8705
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9600e-003</b>	<b>0.3248</b>	<b>0.0790</b>	<b>1.2600e-003</b>	<b>0.0350</b>	<b>3.1300e-003</b>	<b>0.0381</b>	<b>9.5900e-003</b>	<b>2.9900e-003</b>	<b>0.0126</b>		<b>138.1639</b>	<b>138.1639</b>	<b>6.6400e-003</b>	<b>0.0220</b>	<b>144.8705</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7800e-003	0.0000	2.7800e-003	4.2000e-004	0.0000	4.2000e-004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>2.7800e-003</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.9600e-003	0.3248	0.0790	1.2600e-003	0.0326	3.1300e-003	0.0357	9.0000e-003	2.9900e-003	0.0120		138.1639	138.1639	6.6400e-003	0.0220	144.8705
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.9600e-003</b>	<b>0.3248</b>	<b>0.0790</b>	<b>1.2600e-003</b>	<b>0.0326</b>	<b>3.1300e-003</b>	<b>0.0357</b>	<b>9.0000e-003</b>	<b>2.9900e-003</b>	<b>0.0120</b>		<b>138.1639</b>	<b>138.1639</b>	<b>6.6400e-003</b>	<b>0.0220</b>	<b>144.8705</b>

**3.4 Site Preparation Soil 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					0.0118	0.0000	0.0118	1.7900e-003	0.0000	1.7900e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0118</b>	<b>0.0000</b>	<b>0.0118</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>1.7900e-003</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Summer

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0471	1.7053	0.4145	6.5900e-003	0.1836	0.0164	0.2001	0.0503	0.0157	0.0661		725.3605	725.3605	0.0349	0.1152	760.5700
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0471</b>	<b>1.7053</b>	<b>0.4145</b>	<b>6.5900e-003</b>	<b>0.1836</b>	<b>0.0164</b>	<b>0.2001</b>	<b>0.0503</b>	<b>0.0157</b>	<b>0.0661</b>		<b>725.3605</b>	<b>725.3605</b>	<b>0.0349</b>	<b>0.1152</b>	<b>760.5700</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0500e-003	0.0000	5.0500e-003	7.6000e-004	0.0000	7.6000e-004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>5.0500e-003</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
Hauling	0.0471	1.7053	0.4145	6.5900e-003	0.1712	0.0164	0.1876	0.0473	0.0157	0.0630		725.3605	725.3605	0.0349	0.1152	760.5700
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0471</b>	<b>1.7053</b>	<b>0.4145</b>	<b>6.5900e-003</b>	<b>0.1712</b>	<b>0.0164</b>	<b>0.1876</b>	<b>0.0473</b>	<b>0.0157</b>	<b>0.0630</b>		<b>725.3605</b>	<b>725.3605</b>	<b>0.0349</b>	<b>0.1152</b>	<b>760.5700</b>

**3.5 Light Pole Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4998	4.9336	6.2065	8.5100e-003		0.2851	0.2851		0.2623	0.2623		824.5241	824.5241	0.2667		831.1908
<b>Total</b>	<b>0.4998</b>	<b>4.9336</b>	<b>6.2065</b>	<b>8.5100e-003</b>		<b>0.2851</b>	<b>0.2851</b>		<b>0.2623</b>	<b>0.2623</b>		<b>824.5241</b>	<b>824.5241</b>	<b>0.2667</b>		<b>831.1908</b>

**Unmitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
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	0.0292	0.0190	0.2589	7.5000e-004	0.0822	4.6000e-004	0.0826	0.0218	4.3000e-004	0.0222		75.7708	75.7708	2.1900e-003	1.9700e-003	76.4114
<b>Total</b>	<b>0.0292</b>	<b>0.0190</b>	<b>0.2589</b>	<b>7.5000e-004</b>	<b>0.0822</b>	<b>4.6000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.3000e-004</b>	<b>0.0222</b>		<b>75.7708</b>	<b>75.7708</b>	<b>2.1900e-003</b>	<b>1.9700e-003</b>	<b>76.4114</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4998	4.9336	6.2065	8.5100e-003		0.2851	0.2851		0.2623	0.2623	0.0000	824.5241	824.5241	0.2667		831.1908
<b>Total</b>	<b>0.4998</b>	<b>4.9336</b>	<b>6.2065</b>	<b>8.5100e-003</b>		<b>0.2851</b>	<b>0.2851</b>		<b>0.2623</b>	<b>0.2623</b>	<b>0.0000</b>	<b>824.5241</b>	<b>824.5241</b>	<b>0.2667</b>		<b>831.1908</b>

**Mitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
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	0.0292	0.0190	0.2589	7.5000e-004	0.0757	4.6000e-004	0.0762	0.0202	4.3000e-004	0.0206		75.7708	75.7708	2.1900e-003	1.9700e-003	76.4114
<b>Total</b>	<b>0.0292</b>	<b>0.0190</b>	<b>0.2589</b>	<b>7.5000e-004</b>	<b>0.0757</b>	<b>4.6000e-004</b>	<b>0.0762</b>	<b>0.0202</b>	<b>4.3000e-004</b>	<b>0.0206</b>		<b>75.7708</b>	<b>75.7708</b>	<b>2.1900e-003</b>	<b>1.9700e-003</b>	<b>76.4114</b>



Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Winter

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

**Del Norte High School Baseball and Softball Fiels Lighting Project, Construction  
San Diego County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	1.00	1000sqft	0.02	1,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	40
<b>Climate Zone</b>	13			<b>Operational Year</b>	2022
<b>Utility Company</b>	San Diego Gas & Electric				
<b>CO2 Intensity (lb/MW hr)</b>	539.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

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

Project Characteristics -

Land Use -

Construction Phase - See assumptions file

Off-road Equipment - see assumptions file

Off-road Equipment - no equipment required for debris haul phase

Off-road Equipment - see assumptions file

Off-road Equipment - no equipment needed for soil haul phase

Trips and VMT - see assumptions file, added vendor trips based on acreage disturbed, added worker trips based on CalEEMod appendix A worker trip rate of 1.25 workers per piece of equip

Demolition -

Grading - see assumptions file

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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 - SPAPCD Rule 55

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	100.00	7.00
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	10.00	1.00
tblConstructionPhase	NumDays	1.00	12.00
tblGrading	MaterialExported	0.00	1,008.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
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	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

**2.0 Emissions Summary**

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

Unmitigated Construction

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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
Year	lb/day										lb/day					
2022	2.1309	20.5740	23.2386	0.0558	0.4415	0.9322	1.3737	0.1183	0.8824	1.0007	0.0000	5,482.0734	5,482.0734	1.1619	0.1605	5,553.0323
Maximum	2.1309	20.5740	23.2386	0.0558	0.4415	0.9322	1.3737	0.1183	0.8824	1.0007	0.0000	5,482.0734	5,482.0734	1.1619	0.1605	5,553.0323

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	2.1309	20.5740	23.2386	0.0558	0.4035	0.9322	1.3358	0.1096	0.8824	0.9920	0.0000	5,482.0734	5,482.0734	1.1619	0.1605	5,553.0323
Maximum	2.1309	20.5740	23.2386	0.0558	0.4035	0.9322	1.3358	0.1096	0.8824	0.9920	0.0000	5,482.0734	5,482.0734	1.1619	0.1605	5,553.0323

	ROG	NOx	CO	SO2	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	8.59	0.00	2.76	7.34	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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	Demolition and Site Preparation	Demolition	9/6/2022	9/21/2022	5	12	
2	Demolition Debris Haul	Demolition	9/6/2022	9/6/2022	5	1	
3	Site Preparation Soil Haul	Site Preparation	9/6/2022	9/21/2022	5	12	
4	Light Pole Installation	Building Construction	9/13/2022	9/21/2022	5	7	

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

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

**Acres of Paving: 0.02**

**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
Demolition and Site Preparation	Bore/Drill Rigs	2	8.00	221	0.50
Demolition and Site Preparation	Concrete/Industrial Saws	2	8.00	81	0.73
Demolition and Site Preparation	Rubber Tired Dozers	0	1.00	247	0.40
Demolition and Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition Debris Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition Debris Haul	Rubber Tired Dozers	0	1.00	247	0.40
Demolition Debris Haul	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Site Preparation Soil Haul	Graders	0	8.00	187	0.41
Site Preparation Soil Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Light Pole Installation	Cranes	0	4.00	231	0.29
Light Pole Installation	Forklifts	2	6.00	89	0.20
Light Pole Installation	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Winter

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition and Site Preparation	6	15.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition Debris Haul	0	0.00	0.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation Soil Haul	0	0.00	0.00	126.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Light Pole Installation	4	10.00	0.00	0.00	10.80	7.30	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

**3.2 Demolition and Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4930	13.4864	15.8875	0.0376		0.6261	0.6261		0.6000	0.6000		3,614.9288	3,614.9288	0.8504		3,636.1898
<b>Total</b>	<b>1.4930</b>	<b>13.4864</b>	<b>15.8875</b>	<b>0.0376</b>		<b>0.6261</b>	<b>0.6261</b>		<b>0.6000</b>	<b>0.6000</b>		<b>3,614.9288</b>	<b>3,614.9288</b>	<b>0.8504</b>		<b>3,636.1898</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0133	0.3311	0.1100	1.2800e-003	0.0406	3.4800e-003	0.0441	0.0117	3.3300e-003	0.0150		137.9662	137.9662	4.1800e-003	0.0200	144.0436
Worker	0.0474	0.0321	0.3682	1.0600e-003	0.1232	7.0000e-004	0.1239	0.0327	6.4000e-004	0.0333		107.3920	107.3920	3.4900e-003	3.1900e-003	108.4299
<b>Total</b>	<b>0.0606</b>	<b>0.3632</b>	<b>0.4783</b>	<b>2.3400e-003</b>	<b>0.1639</b>	<b>4.1800e-003</b>	<b>0.1680</b>	<b>0.0444</b>	<b>3.9700e-003</b>	<b>0.0484</b>		<b>245.3581</b>	<b>245.3581</b>	<b>7.6700e-003</b>	<b>0.0232</b>	<b>252.4735</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4930	13.4864	15.8875	0.0376		0.6261	0.6261		0.6000	0.6000	0.0000	3,614.9288	3,614.9288	0.8504		3,636.1898
<b>Total</b>	<b>1.4930</b>	<b>13.4864</b>	<b>15.8875</b>	<b>0.0376</b>		<b>0.6261</b>	<b>0.6261</b>		<b>0.6000</b>	<b>0.6000</b>	<b>0.0000</b>	<b>3,614.9288</b>	<b>3,614.9288</b>	<b>0.8504</b>		<b>3,636.1898</b>

**Mitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
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	0.0133	0.3311	0.1100	1.2800e-003	0.0380	3.4800e-003	0.0415	0.0111	3.3300e-003	0.0144		137.9662	137.9662	4.1800e-003	0.0200	144.0436
Worker	0.0474	0.0321	0.3682	1.0600e-003	0.1136	7.0000e-004	0.1143	0.0303	6.4000e-004	0.0310		107.3920	107.3920	3.4900e-003	3.1900e-003	108.4299
<b>Total</b>	<b>0.0606</b>	<b>0.3632</b>	<b>0.4783</b>	<b>2.3400e-003</b>	<b>0.1516</b>	<b>4.1800e-003</b>	<b>0.1558</b>	<b>0.0414</b>	<b>3.9700e-003</b>	<b>0.0454</b>		<b>245.3581</b>	<b>245.3581</b>	<b>7.6700e-003</b>	<b>0.0232</b>	<b>252.4735</b>

**3.3 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					6.5000e-003	0.0000	6.5000e-003	9.8000e-004	0.0000	9.8000e-004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>6.5000e-003</b>	<b>0.0000</b>	<b>6.5000e-003</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>9.8000e-004</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
Hauling	8.7300e-003	0.3370	0.0802	1.2600e-003	0.0350	3.1300e-003	0.0381	9.5900e-003	3.0000e-003	0.0126		138.2224	138.2224	6.6300e-003	0.0220	144.9317
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7300e-003</b>	<b>0.3370</b>	<b>0.0802</b>	<b>1.2600e-003</b>	<b>0.0350</b>	<b>3.1300e-003</b>	<b>0.0381</b>	<b>9.5900e-003</b>	<b>3.0000e-003</b>	<b>0.0126</b>		<b>138.2224</b>	<b>138.2224</b>	<b>6.6300e-003</b>	<b>0.0220</b>	<b>144.9317</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7800e-003	0.0000	2.7800e-003	4.2000e-004	0.0000	4.2000e-004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.7800e-003</b>	<b>0.0000</b>	<b>2.7800e-003</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**



Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
Hauling	8.7300e-003	0.3370	0.0802	1.2600e-003	0.0326	3.1300e-003	0.0357	9.0000e-003	3.0000e-003	0.0120		138.2224	138.2224	6.6300e-003	0.0220	144.9317
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>8.7300e-003</b>	<b>0.3370</b>	<b>0.0802</b>	<b>1.2600e-003</b>	<b>0.0326</b>	<b>3.1300e-003</b>	<b>0.0357</b>	<b>9.0000e-003</b>	<b>3.0000e-003</b>	<b>0.0120</b>		<b>138.2224</b>	<b>138.2224</b>	<b>6.6300e-003</b>	<b>0.0220</b>	<b>144.9317</b>

**3.4 Site Preparation Soil 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					0.0118	0.0000	0.0118	1.7900e-003	0.0000	1.7900e-003			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0118</b>	<b>0.0000</b>	<b>0.0118</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>1.7900e-003</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
Hauling	0.0459	1.7693	0.4208	6.5900e-003	0.1836	0.0165	0.2001	0.0503	0.0157	0.0661		725.6677	725.6677	0.0348	0.1153	760.8915
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0459</b>	<b>1.7693</b>	<b>0.4208</b>	<b>6.5900e-003</b>	<b>0.1836</b>	<b>0.0165</b>	<b>0.2001</b>	<b>0.0503</b>	<b>0.0157</b>	<b>0.0661</b>		<b>725.6677</b>	<b>725.6677</b>	<b>0.0348</b>	<b>0.1153</b>	<b>760.8915</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0500e-003	0.0000	5.0500e-003	7.6000e-004	0.0000	7.6000e-004			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>5.0500e-003</b>	<b>0.0000</b>	<b>5.0500e-003</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego 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					
Hauling	0.0459	1.7693	0.4208	6.5900e-003	0.1712	0.0165	0.1876	0.0473	0.0157	0.0630		725.6677	725.6677	0.0348	0.1153	760.8915
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0459</b>	<b>1.7693</b>	<b>0.4208</b>	<b>6.5900e-003</b>	<b>0.1712</b>	<b>0.0165</b>	<b>0.1876</b>	<b>0.0473</b>	<b>0.0157</b>	<b>0.0630</b>		<b>725.6677</b>	<b>725.6677</b>	<b>0.0348</b>	<b>0.1153</b>	<b>760.8915</b>

**3.5 Light Pole Installation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4998	4.9336	6.2065	8.5100e-003		0.2851	0.2851		0.2623	0.2623		824.5241	824.5241	0.2667		831.1908
<b>Total</b>	<b>0.4998</b>	<b>4.9336</b>	<b>6.2065</b>	<b>8.5100e-003</b>		<b>0.2851</b>	<b>0.2851</b>		<b>0.2623</b>	<b>0.2623</b>		<b>824.5241</b>	<b>824.5241</b>	<b>0.2667</b>		<b>831.1908</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Winter

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0316	0.0214	0.2455	7.1000e-004	0.0822	4.6000e-004	0.0826	0.0218	4.3000e-004	0.0222		71.5946	71.5946	2.3300e-003	2.1300e-003	72.2866
<b>Total</b>	<b>0.0316</b>	<b>0.0214</b>	<b>0.2455</b>	<b>7.1000e-004</b>	<b>0.0822</b>	<b>4.6000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.3000e-004</b>	<b>0.0222</b>		<b>71.5946</b>	<b>71.5946</b>	<b>2.3300e-003</b>	<b>2.1300e-003</b>	<b>72.2866</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4998	4.9336	6.2065	8.5100e-003		0.2851	0.2851		0.2623	0.2623	0.0000	824.5241	824.5241	0.2667		831.1908
<b>Total</b>	<b>0.4998</b>	<b>4.9336</b>	<b>6.2065</b>	<b>8.5100e-003</b>		<b>0.2851</b>	<b>0.2851</b>		<b>0.2623</b>	<b>0.2623</b>	<b>0.0000</b>	<b>824.5241</b>	<b>824.5241</b>	<b>0.2667</b>		<b>831.1908</b>

Del Norte High School Baseball and Softball Fiels Lighting Project, Construction - San Diego County, Winter

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	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	0.0316	0.0214	0.2455	7.1000e-004	0.0757	4.6000e-004	0.0762	0.0202	4.3000e-004	0.0206		71.5946	71.5946	2.3300e-003	2.1300e-003	72.2866
<b>Total</b>	<b>0.0316</b>	<b>0.0214</b>	<b>0.2455</b>	<b>7.1000e-004</b>	<b>0.0757</b>	<b>4.6000e-004</b>	<b>0.0762</b>	<b>0.0202</b>	<b>4.3000e-004</b>	<b>0.0206</b>		<b>71.5946</b>	<b>71.5946</b>	<b>2.3300e-003</b>	<b>2.1300e-003</b>	<b>72.2866</b>