

## **B. Air Quality and Greenhouse Gas Emissions Background and Modeling Data**

## CalEEMod Project Characteristics Inputs (Construction)

**Name:** Longfellow Elementary School  
**Project Location:** 3610 Eucalyptus Avenue, Riverside  
**County:** Riverside  
**Climate Zone:** 10  
**Land Use Setting:** Urban  
**Operational Year:** 2021  
**Utility Company:** City of Riverside  
**Air Basin:** South Coast Air Basin  
**Air District:** SCAQMD  
**SRA:** 23 - Metropolitan Riverside County

Longfellow Elementary School Acres	6.9	acres
Project Site Acres	2.8	acres
Area Disturbed (Excludes Modernization Area)	2.2	acres

Project Components	SQFT	Acres
<b>Demolition</b>		
2210 7th St property	1,500	0.03
2226 7th St property	1,800	0.04
12 Portable Buildings	12,520	0.29
Asphalt	13,980	0.32
Cul-de-sac	8,280	0.19
Hardcourt & playground	3,500	0.08
Sit clearance from portable building	2,200	0.05
<b>Modernization*</b>	<b>23,850</b>	
2-Story, Classroom Building	19,200	0.44
Multipurpose & Cafeteria	2,850	0.07
Administration Building	1,800	0.04
<b>New Construction</b>		
2-story Classroom Building	7,400	0.08
1-story Kindergarten Building	3,000	0.07
1-story Administration Building	3,000	0.07
Parking Lot	22,100	0.51
Non-Parking Asphalt (harcourts & playground)	40,200	0.92
Hardscapes	11,800	0.27
Landscaping	12,500	0.29

\*Building modernization does not require use of offroad heavy construction equipment and would primarily be associated with interior building renovations.

**CalEEMod Land Use Inputs**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square Feet
Classrooms + Admin Building	Educational	Elementary School	13.40	1000 sq. feet	0.22	13,400
Parking Lot	Parking	Parking Lot	22.10	1000 sq. feet	0.51	22,100
Non-Parking Asphalt (harcourts & playground)	Parking	Other Asphalt Surfaces	40.20	1000 sq. feet	0.92	40,200
Hardscapes	Parking	Other Asphalt Surfaces	11.80	1000 sq. feet	0.27	0
Landscaping	Parking	Other Non-Asphalt Surfaces	12.50	1000 sq. feet	0.29	0
<b>Total</b>					<b>2.21</b>	

**Demolition**

Component	Amount to be Demolished (Tons)	Haul Truck Capacity (tons)	Haul Distance (miles)	Total Trip Ends	Trip Ends/ day	Duration (days)
Asphalt Demo	207	20	20	21	2	20
Building Demo	728	20	20	72	3	20
<b>Total</b>	<b>935</b>			<b>93</b>		

**Architectural Coating**

Percentage of Buildings' Interior Painted: 100%

Percentage of Buildings' Exterior Painted: 100%

**SCAQMD Rule 1113**

Interior Paint VOC content: 100 grams per liter

Exterior Paing VOC content: 100 grams per liter

Non-Residential Structures	Land Use Square Feet	CalEEMod Factor <sup>2</sup>	Total Paintable Surface Area	Paintable Interior Area <sup>1</sup>	Paintable Exterior Area <sup>1</sup>
<b>New Building Construction + Modernization</b>					
New Construction	13,400	2	26,800	20,100	6,700
Modernization	23,850	2	47,700	35,775	11,925
			<b>74,500</b>	<b>55,875</b>	<b>18,625</b>
Striping (New parking lot + asphalt hardcourts & playground)	62,300	6%	3,738	-	3,738
			<b>3,738</b>	<b>-</b>	<b>3,738</b>

<sup>1</sup> CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

<sup>2</sup> 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 by the user. 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.

**Construction Mitigation**

*SCAQMD Rule 403*

Replace Ground Cover

PM10:	5	% Reduction
PM25:	5	% Reduction

Water Exposed Area

Frequency:	2	per day
PM10:	55	% Reduction
PM25:	55	% Reduction

Unpaved Roads

Vehicle Speed:	15	mph
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*SCAQMD Rule 1186*

Clean Paved Road	9	% PM Reduction
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**CalEEMod Project Characteristics Inputs (Operation)**

**Name:** Longfellow Elementary School  
**Project Location:** 3610 Eucalyptus Avenue, Riverside  
**County:** Riverside  
**Climate Zone:** 10  
**Land Use Setting:** Urban  
**Operational Year:** 2021  
**Utility Company:** City of Riverside  
**Air Basin:** South Coast Air Basin  
**Air District:** SCAQMD  
**SRA:** 23 - Metropolitan Riverside County

Longfellow Elementary School Acres	6.90	acres
Project Site Acres	2.80	acres
Area Disturbed (Excludes Modernization Area)	2.21	acres

Project Components	SQFT	Acres
<b>Demolition</b>		0.00
2210 7th St property	1,500	0.03
2226 7th St property	1,800	0.04
12 Portable Buildings	12,520	0.29
Asphalt	13,980	0.32
Cul-de-sac	8,260	0.19
Hardcourt & playground	3,500	0.08
Sit clearance from portable building	2,200	0.05
<b>Modernization</b>		0.00
Five Classroom Buildings	19,200	0.44
Multipurpose & Cafeteria	2,850	0.07
Administration Building	1,800	0.04
<b>New Construction</b>		0.00
2-story Classroom Building	7,400	0.08
1-story Kindergarten Building	3,000	0.07
1-story Administration Building	3,000	0.07
Parking Lot	22,100	0.51
Non-Parking Asphalt (harcourts & playground)	40,200	0.92
Hardscapes	11,800	0.27
Landscaping	12,500	0.29

**CalEEMod Land Use Inputs**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Land Use Square
						Feet
Classrooms + Admin Building	Educational	Elementary School	13.40	1000 sq. feet	0.22	13,400
Parking Lot	Parking	Parking Lot	22.10	1000 sq. feet	0.51	22,100
Non-Parking Asphalt (harcourts & playground)	Parking	Other Asphalt Surfaces	40.20	1000 sq. feet	0.92	40,200
Hardscapes	Parking	Other Asphalt Surfaces	11.80	1000 sq. feet	0.27	0
Landscaping	Parking	Other Non-Asphalt Surfaces	12.50	1000 sq. feet	0.29	0
<b>Total</b>					<b>2.21</b>	

**Water Use**

		* CalEEMod defaults		Total Indoor Waste Use	Total Outdoor Waste Use
		Indoor Water Use Rate (gals/1000 sqft/yr)*	Outdoor Water Use Rate (gals/1000 sqft/yr)*	(gals /yr)	(gals /yr)
Elementary School		28,997	74,564	388,560	999,158
				388,560	999,158

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

**Solid Waste**

		* CalEEMod defaults	
		Solid Waste Generation Rate (ton/1000 sqft/year)*	Total (tons/year)
Elementary School		1.3	17.42
			17.42

**Water Mitigation**

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

**Energy**

Modeling is conservative because the carbon intensity of electricity does not account for additional reductions from the 33% RPS and 50% RPS under SB 350.

Buildings constructed after January 1, 2020 are required to meet the 2019 Building and Energy Efficiency Standards. The 2019 Standards are 30% more energy efficient for non-residential buildings and 7% more energy efficient for residential buildings than the 2016 Building and Energy Efficiency Standards.

Residential Exceed Title 24	7%	Improvement over 2016
Non-Residential Exceed Title 24	30%	Improvement over 2016

Sources:  
1

California Energy Commission (CEC). 2018. 2019 Building Energy and Efficiency Standards Frequently Asked Questions. Accessed on April 3, 2019. [http://www.energy.ca.gov/title24/2019standards/documents/2018\\_Title\\_24\\_2019\\_Building\\_Standards\\_FAQ.pdf](http://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf)

\*Multi-family of 4 stories and higher are treated as non-residential for the Building and Energy Efficiency Standards.

## Construction Activities and Schedule Assumptions (Longfellow ES)\*

\*Based on information provided and verified by the District unless otherwise noted.

Construction Activities		Construction Schedule		
Phase Name	Phase Type	Start Date	End Date	CalEEMod Days
Demolition	Demolition	7/1/2020	7/28/2020	20
<i>Demo Haul</i>	<i>Demolition</i>	7/1/2020	7/28/2020	20
Site Preparation	Site Preparation	7/29/2020	7/31/2020	3
Grading	Grading	8/1/2020	8/10/2020	6
Utility Trenching*	Utility Trenching	8/11/2020	8/19/2020	7
Building Construction	Building Construction	8/20/2020	6/30/2021	225
Building Modernization	Building Construction	8/20/2020	6/30/2021	225
Paving	Paving	6/17/2021	6/30/2021	10
Architectural Coating	Architectural Coating	6/17/2021	6/30/2021	10

\*Based on comparable school project.

## CalEEMod Construction Off-Road Equipment Inputs\*

General Construction Hours:

8 hours

btwn 7:00 AM to 4:00 PM

Equipment	Construction Equipment Details			
	# of Equipment	hp	hrs/day	total trips
<b>Demolition</b>				
Concrete/Industrial Saws	1	81	8	
Rubber Tired Dozers	1	247	8	
Tractors/Loaders/Backhoes	3	97	8	
Worker Trips				13
Vendor Trips**				4
Hauling Trips				93
<b>Site Preparation</b>				
Graders	1	187	8	
Scrapers	1	367	8	
Tractors/Loaders/Backhoes	1	97	7	
Worker Trips				8
Vendor Trips**				4
Hauling Trips				0
<b>Grading</b>				
Graders	1	187	8	
Rubber Tired Dozers	1	247	8	
Tractors/Loaders/Backhoes	2	97	7	
Worker Trips				10
Vendor Trips**				4
Hauling Trips				0
<b>Utility Trenching</b>				
Excavators	1	158	8	
Tractors/Loaders/Backhoes	1	97	8	
Bore/Drill Rigs	1	221	8	
Worker Trips				8
Vendor Trips				0
Hauling Trips				0



Building Construction				
Cranes	1	231	8	
Forklifts	2	89	7	
Generator Sets	1	84	8	
Tractors/Loaders/Backhoes	1	97	6	
Welders	3	46	8	
Worker Trips				32
Vendor Trips				12
Hauling Trips				0
Building Modernization				
Worker Trips***				10
Vendor Trips***				4
Hauling Trips				0
Paving				
Cement and Mortar Mixers	1	9	8	
Pavers	1	130	8	
Paving Equipment	1	132	8	
Rollers	2	80	8	
Tractors/Loaders/Backhoes	1	97	8	
Worker Trips				15
Vendor Trips				0
Hauling Trips				0
Architectural Coating				
Air Compressors	1	78	6	
Worker Trips***				8
Vendor Trips				0
Hauling Trips				0

\*Based on CalEEMod defaults.

\*\*Added water truck trips.

\*\*\*Added trips based on square footage of building modernization.

## 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	13,980	0.333	4,660	89	414,222	207.11

<sup>1</sup> Based on construction information verified by the District.

<sup>2</sup> Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut Cooperative Extension System, 1999.

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

## Demo Haul Trip Calculation

### Conversion factors\*

0.046 ton/SF  
1.2641662 tons/cy  
20 tons  
15.820705 CY  
0.7910352 CY/ton

### Building Demolition Haul Trips (BSF and Haul Truck (CY) given)

<b>BSF Demo</b>	<b>Tons/SF</b>	<b>Tons</b>	<b>Haul Truck (CY)</b>	<b>Haul Truck (Ton)</b>	<b>Round Trips</b>	<b>Total Trip Ends</b>
15,820	0.046	727.72	16	20.00	36	73

\*CalEEMod User's Guide Version 2016.3.2, Appendix A

**Construction Localized Significance Thresholds: Demolition + Demolition Haul**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	2.00	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	0.0625	8	3
NOx	170	Graders	0.5	0.0625	0	0
CO	883	Dozers	0.5	0.0625	8	1
PM10	7.00	Scrapers	1	0.125	0	0
PM2.5	4.00					Acres
						2.00

	Acres	25	50	100	200	500
NOx	2	170	200	264	379	684
	2	170	200	264	379	684
		170	200	264	379	684
CO	2	883	1262	2232	5136	18947
	2	883	1262	2232	5136	18947
		883	1262	2232	5136	18947
PM10	2	7	20	38	75	186
	2	7	20	38	75	186
		7	20	38	75	186
PM2.5	2	4	6	10	23	91
	2	4	6	10	23	91
		4	6	10	23	91

Metropolitan Riverside County

**2.00 Acres**

	25	50	100	200	500
NOx	170	200	264	379	684
CO	883	1262	2232	5136	18947
PM10	7	20	38	75	186
PM2.5	4	6	10	23	91

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	2	23	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: Site Preparation**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	1.94	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	7	1	0.4375
NOx	167	Graders	0.5	8	1	0.5
CO	865	Dozers	0.5	0	0	0
PM10	6.81	Scrapers	1	8	1	1
PM2.5	3.94				Acres	1.94

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	2	170	200	264	379	684
CO	1	602	887	1746	4359	17640
	2	883	1262	2232	5136	18947
PM10	1	865	1239	2202	5087	18865
	2	4	12	30	67	178
PM2.5	1	7	20	38	75	186
	2	7	20	38	75	186
PM2.5	1	3	4	8	20	86
	2	4	6	10	23	91
		4	6	10	23	91

Metropolitan Riverside County

	1.94 Acres	50	100	200	500
NOx	167	197	261	376	682
CO	865	1239	2202	5087	18865
PM10	7	20	38	75	186
PM2.5	4	6	10	23	91

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	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: Grading**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	1.88	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
25		Tractors	0.5	7	2	0.875
NOx	163	Graders	0.5	8	1	0.5
CO	848	Dozers	0.5	8	1	0.5
PM10	6.62	Scrapers	1	0	0	0
PM2.5	3.87					1.88

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	2	170	200	264	379	684
CO	1	602	887	1746	4359	17640
	2	883	1262	2232	5136	18947
PM10	1	848	1215	2171	5039	18784
	2	4	12	30	67	178
PM2.5	1	7	20	38	75	186
	2	7	19	37	74	185
Metropolitan Riverside County	1	3	4	8	20	86
	2	4	6	10	23	91
		4	6	10	23	90

Metropolitan Riverside County	1.88 Acres	25	50	100	200	500
NOx	164	194	258	374	680	
CO	848	1215	2171	5039	18784	
PM10	7	19	37	74	185	
PM2.5	4	6	10	23	90	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	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
23	0.50	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	8	1	0.5
NOx	118	Graders	0.5	0.0625	0	0	0
CO	602	Dozers	0.5	0.0625	0	0	0
PM10	4.00	Scrapers	1	0.125	0	0	0
PM2.5	3.00					Acres	0.50

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	1	118	148	212	335	652
	1	118	148	212	335	652
CO	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
PM10	1	4	12	30	67	178
	1	4	12	30	67	178
	1	4	12	30	67	178
PM2.5	1	3	4	8	20	86
	1	3	4	8	20	86
	1	3	4	8	20	86

Metropolitan Riverside County						
0.50 Acres						
NOx	25	50	100	200	500	
NOx	118	148	212	335	652	
CO	602	887	1746	4359	17640	
PM10	4	12	30	67	178	
PM2.5	3	4	8	20	86	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	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: Building Construction + Modernization**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	0.38	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	6	1	0.375
NOx	118	Graders	0.5	0.0625	0	0	0
CO	602	Dozers	0.5	0.0625	0	0	0
PM10	4.00	Scrapers	1	0.125	0	0	0
PM2.5	3.00					Acres	0.38

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	1	118	148	212	335	652
	1	118	148	212	335	652
CO	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
PM10	1	4	12	30	67	178
	1	4	12	30	67	178
	1	4	12	30	67	178
PM2.5	1	3	4	8	20	86
	1	3	4	8	20	86
	1	3	4	8	20	86

Metropolitan Riverside County						
0.38 Acres						
	25	50	100	200	500	
NOx	118	148	212	335	652	
CO	602	887	1746	4359	17640	
PM10	4	12	30	67	178	
PM2.5	3	4	8	20	86	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	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: Paving**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	0.50	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
25		Tractors	0.5	0.0625	8	1	0.5
NOx	118	Graders	0.5	0.0625	0	0	0
CO	602	Dozers	0.5	0.0625	0	0	0
PM10	4.00	Scrapers	1	0.125	0	0	0
PM2.5	3.00					Acres	0.50

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	1	118	148	212	335	652
	1	118	148	212	335	652
CO	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
PM10	1	4	12	30	67	178
	1	4	12	30	67	178
	1	4	12	30	67	178
PM2.5	1	3	4	8	20	86
	1	3	4	8	20	86
	1	3	4	8	20	86

Metropolitan Riverside County

	0.50 Acres	25	50	100	200	500
NOx	118	148	212	335	652	
CO	602	887	1746	4359	17640	
PM10	4	12	30	67	178	
PM2.5	3	4	8	20	86	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	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: Architectural Coating**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	0.00	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	0	0
NOx	118	Graders	0.5	0.0625	0	0
CO	602	Dozers	0.5	0.0625	0	0
PM10	4.00	Scrapers	1	0.125	0	0
PM2.5	3.00					0.00

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	1	118	148	212	335	652
	1	118	148	212	335	652
CO	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
PM10	1	4	12	30	67	178
	1	4	12	30	67	178
	1	4	12	30	67	178
PM2.5	1	3	4	8	20	86
	1	3	4	8	20	86
	1	3	4	8	20	86

Metropolitan Riverside County

	0.00 Acres	25	50	100	200	500
NOx	118	148	212	335	652	
CO	602	887	1746	4359	17640	
PM10	4	12	30	67	178	
PM2.5	3	4	8	20	86	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	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: BC + Modernization + Paving + Coating**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
23	0.75	25	82	2.21

Source Receptor Distance (meters)	Metropolitan Riverside Cour	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres	
	25	Tractors	0.5	0.0625	6	2	0.75
NOx	118	Graders	0.5	0.0625	0	0	0
CO	602	Dozers	0.5	0.0625	0	0	0
PM10	4.00	Scrapers	1	0.125	0	0	0
PM2.5	3.00					Acres	0.75

	Acres	25	50	100	200	500
NOx	1	118	148	212	335	652
	1	118	148	212	335	652
	1	118	148	212	335	652
CO	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
	1	602	887	1746	4359	17640
PM10	1	4	12	30	67	178
	1	4	12	30	67	178
	1	4	12	30	67	178
PM2.5	1	3	4	8	20	86
	1	3	4	8	20	86
	1	3	4	8	20	86

Metropolitan Riverside County

**0.75 Acres**

	25	50	100	200	500
NOx	118	148	212	335	652
CO	602	887	1746	4359	17640
PM10	4	12	30	67	178
PM2.5	3	4	8	20	86

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	1	23	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

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

**Operation Localized Significance Thresholds - Sensitive Receptor**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
23	2.21	25	82

**Source Receptor Distance (meters)**

**Metropolitan Riverside County**

NOx	177
CO	931
PM10	2.14
PM2.5	1.07

	Acres	25	50	100	200	500
NOx	2	170	200	264	379	684
	3	203	234	302	415	716
		177	207	272	387	691
CO	2	883	1262	2232	5136	18947
	3	1114	1567	2634	4711	20141
PM10	2	932	1326	2316	5047	19198
	3	2	5	10	18	45
		3	7	11	20	47
PM2.5	2	2	5	10	18	45
	3	1	2	3	6	22
		3	2	3	7	23
		1	2	3	6	22

Metropolitan Riverside County

**2.21 Acres**

NOx	25	50	100	200	500
CO	177	207	272	387	691
PM10	932	1326	2316	5047	19198
PM2.5	2	5	10	18	45
	3	2	3	6	22

N  
;

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
23	2	23	3
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2010 - Table C-1, 2006 – 2008

Longfellow ES - Construction and Operation - Riverside-South Coast County, Annual

**Longfellow ES - Construction and Operation**  
**Riverside-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	13.40	1000sqft	0.22	13,400.00	0
Other Asphalt Surfaces	40.20	1000sqft	0.92	40,200.00	0
Other Asphalt Surfaces	11.80	1000sqft	0.27	0.00	0
Other Non-Asphalt Surfaces	12.50	1000sqft	0.29	0.00	0
Parking Lot	22.10	1000sqft	0.51	22,100.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Riverside Public Utilities				
<b>CO2 Intensity (lb/MW hr)</b>	1325.65	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

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Project Characteristics -

Land Use - refer to caleemod inputs

Construction Phase - See Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - No modernization equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Only crane needed for portable building haul

Off-road Equipment -

Off-road Equipment - caleemod inputs

Trips and VMT - Vendor trips added for water trucks.

Demolition -

Architectural Coating - Added sqft for modernization of buildings

Vehicle Trips - No increase in trips

Area Coating - Added sqft for modernizations

Water And Wastewater - 100% aerobic

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Energy Mitigation - 2019 Building and Energy Efficiency Standards (CEC 2018)

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,700.00	18,625.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	20,100.00	55,875.00
tblAreaCoating	Area_Nonresidential_Exterior	6700	18625
tblAreaCoating	Area_Nonresidential_Interior	20100	55875

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tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	225.00
tblConstructionPhase	NumDays	220.00	225.00
tblLandUse	LandUseSquareFeet	11,800.00	0.00
tblLandUse	LandUseSquareFeet	12,500.00	0.00
tblLandUse	LotAcreage	0.31	0.22
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	92.00	93.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	12.00	4.00
tblTripsAndVMT	WorkerTripNumber	32.00	10.00
tblTripsAndVMT	WorkerTripNumber	6.00	8.00
tblVehicleTrips	WD_TR	15.43	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00

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**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					
2020	0.1547	1.2727	1.0295	2.0700e-003	0.0625	0.0631	0.1256	0.0201	0.0600	0.0800	0.0000	178.8912	178.8912	0.0326	0.0000	179.7049
2021	0.3364	1.1990	1.1147	2.2600e-003	0.0376	0.0565	0.0940	0.0101	0.0540	0.0641	0.0000	193.2415	193.2415	0.0314	0.0000	194.0265
<b>Maximum</b>	<b>0.3364</b>	<b>1.2727</b>	<b>1.1147</b>	<b>2.2600e-003</b>	<b>0.0625</b>	<b>0.0631</b>	<b>0.1256</b>	<b>0.0201</b>	<b>0.0600</b>	<b>0.0800</b>	<b>0.0000</b>	<b>193.2415</b>	<b>193.2415</b>	<b>0.0326</b>	<b>0.0000</b>	<b>194.0265</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1547	1.2726	1.0295	2.0700e-003	0.0418	0.0631	0.1049	0.0127	0.0600	0.0727	0.0000	178.8910	178.8910	0.0326	0.0000	179.7047
2021	0.3364	1.1990	1.1147	2.2600e-003	0.0347	0.0565	0.0912	9.4300e-003	0.0540	0.0634	0.0000	193.2413	193.2413	0.0314	0.0000	194.0263
<b>Maximum</b>	<b>0.3364</b>	<b>1.2726</b>	<b>1.1147</b>	<b>2.2600e-003</b>	<b>0.0418</b>	<b>0.0631</b>	<b>0.1049</b>	<b>0.0127</b>	<b>0.0600</b>	<b>0.0727</b>	<b>0.0000</b>	<b>193.2413</b>	<b>193.2413</b>	<b>0.0326</b>	<b>0.0000</b>	<b>194.0263</b>



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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	23.50	0.00	10.70	26.69	0.00	5.59	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	7-1-2020	9-30-2020	0.7105	0.7105
2	10-1-2020	12-31-2020	0.7145	0.7145
3	1-1-2021	3-31-2021	0.6394	0.6394
4	4-1-2021	6-30-2021	0.8985	0.8985
		Highest	0.8985	0.8985

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0707	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4800e-003	2.4800e-003	1.0000e-005	0.0000	2.6500e-003
Energy	6.3000e-004	5.7500e-003	4.8300e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	69.7348	69.7348	1.5100e-003	4.0000e-004	69.8923
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	3.5361	0.0000	3.5361	0.2090	0.0000	8.7605
Water						0.0000	0.0000		0.0000	0.0000	0.1375	9.7171	9.8546	6.9000e-004	3.4000e-004	9.9739
<b>Total</b>	<b>0.0713</b>	<b>5.7600e-003</b>	<b>6.1100e-003</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>3.6736</b>	<b>79.4543</b>	<b>83.1279</b>	<b>0.2112</b>	<b>7.4000e-004</b>	<b>88.6294</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0707	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4800e-003	2.4800e-003	1.0000e-005	0.0000	2.6500e-003
Energy	4.8000e-004	4.3800e-003	3.6800e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	61.5196	61.5196	1.3300e-003	3.4000e-004	61.6555
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	3.5361	0.0000	3.5361	0.2090	0.0000	8.7605
Water						0.0000	0.0000		0.0000	0.0000	0.1100	8.7015	8.8114	5.7000e-004	2.8000e-004	8.9087
<b>Total</b>	<b>0.0712</b>	<b>4.3900e-003</b>	<b>4.9600e-003</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>3.6461</b>	<b>70.2236</b>	<b>73.8696</b>	<b>0.2109</b>	<b>6.2000e-004</b>	<b>79.3274</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.21</b>	<b>23.78</b>	<b>18.82</b>	<b>0.00</b>	<b>0.00</b>	<b>25.00</b>	<b>25.00</b>	<b>0.00</b>	<b>25.00</b>	<b>25.00</b>	<b>0.75</b>	<b>11.62</b>	<b>11.14</b>	<b>0.14</b>	<b>16.22</b>	<b>10.50</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Demo Haul	Demolition	7/1/2020	7/28/2020	5	20	
3	Site Preparation	Site Preparation	7/29/2020	7/31/2020	5	3	
4	Grading	Grading	8/1/2020	8/10/2020	5	6	
5	Utility Trenching	Trenching	8/11/2020	8/19/2020	5	7	
6	Building Construction	Building Construction	8/20/2020	6/30/2021	5	225	
7	Building Modernization	Building Construction	8/20/2020	6/30/2021	5	225	
8	Paving	Paving	6/17/2021	6/30/2021	5	10	
9	Architectural Coating	Architectural Coating	6/17/2021	6/30/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.99

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 55,875; Non-Residential Outdoor: 18,625; Striped Parking Area: 3,738 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Demo Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

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Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Utility Trenching	Bore/Drill Rigs	1	8.00	221	0.50
Utility Trenching	Excavators	1	8.00	158	0.38
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Building Modernization	Cranes	0	8.00	231	0.29
Building Modernization	Forklifts	0	7.00	89	0.20
Building Modernization	Generator Sets	0	8.00	84	0.74
Building Modernization	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Modernization	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demo Haul	0	0.00	0.00	93.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	32.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Modernization	0	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	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

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**3.2 Demolition - 2020**

**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	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
<b>Total</b>	<b>0.0213</b>	<b>0.2095</b>	<b>0.1466</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>0.0108</b>	<b>0.0108</b>	<b>0.0000</b>	<b>21.0677</b>	<b>21.0677</b>	<b>5.4200e-003</b>	<b>0.0000</b>	<b>21.2031</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.1600e-003	8.1000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.8000e-004	7.0000e-005	2.0000e-005	1.0000e-004	0.0000	0.9836	0.9836	8.0000e-005	0.0000	0.9855
Worker	6.0000e-004	4.2000e-004	4.4700e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1955	1.1955	3.0000e-005	0.0000	1.1962
<b>Total</b>	<b>7.1000e-004</b>	<b>4.5800e-003</b>	<b>5.2800e-003</b>	<b>2.0000e-005</b>	<b>1.6800e-003</b>	<b>3.0000e-005</b>	<b>1.7200e-003</b>	<b>4.5000e-004</b>	<b>3.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>2.1790</b>	<b>2.1790</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.1817</b>

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**3.2 Demolition - 2020**

**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	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
<b>Total</b>	<b>0.0213</b>	<b>0.2095</b>	<b>0.1466</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0115</b>	<b>0.0115</b>	<b>0.0000</b>	<b>0.0108</b>	<b>0.0108</b>	<b>0.0000</b>	<b>21.0676</b>	<b>21.0676</b>	<b>5.4200e-003</b>	<b>0.0000</b>	<b>21.2030</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1000e-004	4.1600e-003	8.1000e-004	1.0000e-005	2.4000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	9.0000e-005	0.0000	0.9836	0.9836	8.0000e-005	0.0000	0.9855
Worker	6.0000e-004	4.2000e-004	4.4700e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1955	1.1955	3.0000e-005	0.0000	1.1962
<b>Total</b>	<b>7.1000e-004</b>	<b>4.5800e-003</b>	<b>5.2800e-003</b>	<b>2.0000e-005</b>	<b>1.5600e-003</b>	<b>3.0000e-005</b>	<b>1.5900e-003</b>	<b>4.2000e-004</b>	<b>3.0000e-005</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>2.1790</b>	<b>2.1790</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>2.1817</b>

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**3.3 Demo Haul - 2020**

**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					0.0101	0.0000	0.0101	1.5200e-003	0.0000	1.5200e-003	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>0.0101</b>	<b>0.0000</b>	<b>0.0101</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>1.5200e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.4000e-004	0.0113	1.4600e-003	4.0000e-005	8.0000e-004	4.0000e-005	8.4000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	3.3717	3.3717	2.1000e-004	0.0000	3.3770
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>2.4000e-004</b>	<b>0.0113</b>	<b>1.4600e-003</b>	<b>4.0000e-005</b>	<b>8.0000e-004</b>	<b>4.0000e-005</b>	<b>8.4000e-004</b>	<b>2.2000e-004</b>	<b>3.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.3717</b>	<b>3.3717</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>3.3770</b>



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**3.3 Demo Haul - 2020**

**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					4.3000e-003	0.0000	4.3000e-003	6.5000e-004	0.0000	6.5000e-004	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>4.3000e-003</b>	<b>0.0000</b>	<b>4.3000e-003</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	2.4000e-004	0.0113	1.4600e-003	4.0000e-005	7.5000e-004	4.0000e-005	7.8000e-004	2.1000e-004	3.0000e-005	2.4000e-004	0.0000	3.3717	3.3717	2.1000e-004	0.0000	3.3770
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>2.4000e-004</b>	<b>0.0113</b>	<b>1.4600e-003</b>	<b>4.0000e-005</b>	<b>7.5000e-004</b>	<b>4.0000e-005</b>	<b>7.8000e-004</b>	<b>2.1000e-004</b>	<b>3.0000e-005</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>3.3717</b>	<b>3.3717</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>3.3770</b>

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**3.4 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0299	0.0169	4.0000e-005		1.1700e-003	1.1700e-003		1.0700e-003	1.0700e-003	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
<b>Total</b>	<b>2.4800e-003</b>	<b>0.0299</b>	<b>0.0169</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>1.1700e-003</b>	<b>3.5600e-003</b>	<b>2.6000e-004</b>	<b>1.0700e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>3.2290</b>	<b>3.2290</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.2551</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.2000e-004	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	1.0000e-005	0.0000	0.1478
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1104	0.1104	0.0000	0.0000	0.1104
<b>Total</b>	<b>8.0000e-005</b>	<b>6.6000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.2579</b>	<b>0.2579</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2583</b>

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**3.4 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0200e-003	0.0000	1.0200e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0299	0.0169	4.0000e-005		1.1700e-003	1.1700e-003		1.0700e-003	1.0700e-003	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
<b>Total</b>	<b>2.4800e-003</b>	<b>0.0299</b>	<b>0.0169</b>	<b>4.0000e-005</b>	<b>1.0200e-003</b>	<b>1.1700e-003</b>	<b>2.1900e-003</b>	<b>1.1000e-004</b>	<b>1.0700e-003</b>	<b>1.1800e-003</b>	<b>0.0000</b>	<b>3.2290</b>	<b>3.2290</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.2551</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.2000e-004	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	1.0000e-005	0.0000	0.1478
Worker	6.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1104	0.1104	0.0000	0.0000	0.1104
<b>Total</b>	<b>8.0000e-005</b>	<b>6.6000e-004</b>	<b>5.3000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.2579</b>	<b>0.2579</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2583</b>

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**3.5 Grading - 2020**

**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					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0640	0.0298	6.0000e-005		2.9700e-003	2.9700e-003		2.7300e-003	2.7300e-003	0.0000	5.4333	5.4333	1.7600e-003	0.0000	5.4773
<b>Total</b>	<b>5.7700e-003</b>	<b>0.0640</b>	<b>0.0298</b>	<b>6.0000e-005</b>	<b>0.0197</b>	<b>2.9700e-003</b>	<b>0.0226</b>	<b>0.0101</b>	<b>2.7300e-003</b>	<b>0.0128</b>	<b>0.0000</b>	<b>5.4333</b>	<b>5.4333</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4773</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.2500e-003	2.4000e-004	0.0000	8.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2951	0.2951	2.0000e-005	0.0000	0.2957
Worker	1.4000e-004	1.0000e-004	1.0300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2759	0.2759	1.0000e-005	0.0000	0.2761
<b>Total</b>	<b>1.7000e-004</b>	<b>1.3500e-003</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>1.0000e-005</b>	<b>4.1000e-004</b>	<b>1.1000e-004</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.5710</b>	<b>0.5710</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5717</b>

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**3.5 Grading - 2020**

**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					8.4000e-003	0.0000	8.4000e-003	4.3200e-003	0.0000	4.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0640	0.0298	6.0000e-005		2.9700e-003	2.9700e-003		2.7300e-003	2.7300e-003	0.0000	5.4333	5.4333	1.7600e-003	0.0000	5.4773
<b>Total</b>	<b>5.7700e-003</b>	<b>0.0640</b>	<b>0.0298</b>	<b>6.0000e-005</b>	<b>8.4000e-003</b>	<b>2.9700e-003</b>	<b>0.0114</b>	<b>4.3200e-003</b>	<b>2.7300e-003</b>	<b>7.0500e-003</b>	<b>0.0000</b>	<b>5.4333</b>	<b>5.4333</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4773</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-005	1.2500e-003	2.4000e-004	0.0000	7.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2951	0.2951	2.0000e-005	0.0000	0.2957
Worker	1.4000e-004	1.0000e-004	1.0300e-003	0.0000	3.0000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2759	0.2759	1.0000e-005	0.0000	0.2761
<b>Total</b>	<b>1.7000e-004</b>	<b>1.3500e-003</b>	<b>1.2700e-003</b>	<b>0.0000</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>1.0000e-005</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.5710</b>	<b>0.5710</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.5717</b>

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**3.6 Utility Trenching - 2020**

**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	2.5600e-003	0.0281	0.0267	6.0000e-005		1.2300e-003	1.2300e-003		1.1300e-003	1.1300e-003	0.0000	5.4317	5.4317	1.7600e-003	0.0000	5.4756
<b>Total</b>	<b>2.5600e-003</b>	<b>0.0281</b>	<b>0.0267</b>	<b>6.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.1300e-003</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>5.4317</b>	<b>5.4317</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4756</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	1.3000e-004	9.0000e-005	9.6000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2575	0.2575	1.0000e-005	0.0000	0.2577
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>3.1000e-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>0.2575</b>	<b>0.2575</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2577</b>

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**3.6 Utility Trenching - 2020**

**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	2.5600e-003	0.0281	0.0267	6.0000e-005		1.2300e-003	1.2300e-003		1.1300e-003	1.1300e-003	0.0000	5.4317	5.4317	1.7600e-003	0.0000	5.4756
<b>Total</b>	<b>2.5600e-003</b>	<b>0.0281</b>	<b>0.0267</b>	<b>6.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.1300e-003</b>	<b>1.1300e-003</b>	<b>0.0000</b>	<b>5.4317</b>	<b>5.4317</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.4756</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	1.3000e-004	9.0000e-005	9.6000e-004	0.0000	2.8000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2575	0.2575	1.0000e-005	0.0000	0.2577
<b>Total</b>	<b>1.3000e-004</b>	<b>9.0000e-005</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2575</b>	<b>0.2575</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2577</b>

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**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	0.1098	0.8368	0.7151	1.2000e-003		0.0455	0.0455		0.0436	0.0436	0.0000	99.6693	99.6693	0.0202	0.0000	100.1750
<b>Total</b>	<b>0.1098</b>	<b>0.8368</b>	<b>0.7151</b>	<b>1.2000e-003</b>		<b>0.0455</b>	<b>0.0455</b>		<b>0.0436</b>	<b>0.0436</b>	<b>0.0000</b>	<b>99.6693</b>	<b>99.6693</b>	<b>0.0202</b>	<b>0.0000</b>	<b>100.1750</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6400e-003	0.0599	0.0117	1.5000e-004	3.6400e-003	3.4000e-004	3.9800e-003	1.0500e-003	3.2000e-004	1.3700e-003	0.0000	14.1631	14.1631	1.1300e-003	0.0000	14.1914
Worker	7.0600e-003	4.9500e-003	0.0528	1.6000e-004	0.0169	1.0000e-004	0.0170	4.4800e-003	1.0000e-004	4.5800e-003	0.0000	14.1249	14.1249	3.5000e-004	0.0000	14.1338
<b>Total</b>	<b>8.7000e-003</b>	<b>0.0649</b>	<b>0.0645</b>	<b>3.1000e-004</b>	<b>0.0205</b>	<b>4.4000e-004</b>	<b>0.0210</b>	<b>5.5300e-003</b>	<b>4.2000e-004</b>	<b>5.9500e-003</b>	<b>0.0000</b>	<b>28.2881</b>	<b>28.2881</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>28.3252</b>



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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1098	0.8368	0.7151	1.2000e-003		0.0455	0.0455		0.0436	0.0436	0.0000	99.6692	99.6692	0.0202	0.0000	100.1749
<b>Total</b>	<b>0.1098</b>	<b>0.8368</b>	<b>0.7151</b>	<b>1.2000e-003</b>		<b>0.0455</b>	<b>0.0455</b>		<b>0.0436</b>	<b>0.0436</b>	<b>0.0000</b>	<b>99.6692</b>	<b>99.6692</b>	<b>0.0202</b>	<b>0.0000</b>	<b>100.1749</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6400e-003	0.0599	0.0117	1.5000e-004	3.4100e-003	3.4000e-004	3.7400e-003	9.9000e-004	3.2000e-004	1.3200e-003	0.0000	14.1631	14.1631	1.1300e-003	0.0000	14.1914
Worker	7.0600e-003	4.9500e-003	0.0528	1.6000e-004	0.0156	1.0000e-004	0.0157	4.1600e-003	1.0000e-004	4.2600e-003	0.0000	14.1249	14.1249	3.5000e-004	0.0000	14.1338
<b>Total</b>	<b>8.7000e-003</b>	<b>0.0649</b>	<b>0.0645</b>	<b>3.1000e-004</b>	<b>0.0190</b>	<b>4.4000e-004</b>	<b>0.0194</b>	<b>5.1500e-003</b>	<b>4.2000e-004</b>	<b>5.5800e-003</b>	<b>0.0000</b>	<b>28.2881</b>	<b>28.2881</b>	<b>1.4800e-003</b>	<b>0.0000</b>	<b>28.3252</b>

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**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	0.1319	1.0338	0.9393	1.6100e-003		0.0527	0.0527		0.0505	0.0505	0.0000	133.9334	133.9334	0.0264	0.0000	134.5922
<b>Total</b>	<b>0.1319</b>	<b>1.0338</b>	<b>0.9393</b>	<b>1.6100e-003</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0505</b>	<b>0.0505</b>	<b>0.0000</b>	<b>133.9334</b>	<b>133.9334</b>	<b>0.0264</b>	<b>0.0000</b>	<b>134.5922</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8500e-003	0.0722	0.0139	2.0000e-004	4.8900e-003	1.4000e-004	5.0300e-003	1.4100e-003	1.3000e-004	1.5400e-003	0.0000	18.8835	18.8835	1.4400e-003	0.0000	18.9195
Worker	8.8500e-003	5.9600e-003	0.0650	2.0000e-004	0.0227	1.4000e-004	0.0228	6.0200e-003	1.3000e-004	6.1500e-003	0.0000	18.3458	18.3458	4.3000e-004	0.0000	18.3565
<b>Total</b>	<b>0.0107</b>	<b>0.0781</b>	<b>0.0789</b>	<b>4.0000e-004</b>	<b>0.0276</b>	<b>2.8000e-004</b>	<b>0.0279</b>	<b>7.4300e-003</b>	<b>2.6000e-004</b>	<b>7.6900e-003</b>	<b>0.0000</b>	<b>37.2293</b>	<b>37.2293</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>37.2760</b>

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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1319	1.0338	0.9393	1.6100e-003		0.0527	0.0527		0.0505	0.0505	0.0000	133.9333	133.9333	0.0264	0.0000	134.5920
<b>Total</b>	<b>0.1319</b>	<b>1.0338</b>	<b>0.9393</b>	<b>1.6100e-003</b>		<b>0.0527</b>	<b>0.0527</b>		<b>0.0505</b>	<b>0.0505</b>	<b>0.0000</b>	<b>133.9333</b>	<b>133.9333</b>	<b>0.0264</b>	<b>0.0000</b>	<b>134.5920</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8500e-003	0.0722	0.0139	2.0000e-004	4.5800e-003	1.4000e-004	4.7100e-003	1.3300e-003	1.3000e-004	1.4700e-003	0.0000	18.8835	18.8835	1.4400e-003	0.0000	18.9195
Worker	8.8500e-003	5.9600e-003	0.0650	2.0000e-004	0.0209	1.4000e-004	0.0211	5.5900e-003	1.3000e-004	5.7100e-003	0.0000	18.3458	18.3458	4.3000e-004	0.0000	18.3565
<b>Total</b>	<b>0.0107</b>	<b>0.0781</b>	<b>0.0789</b>	<b>4.0000e-004</b>	<b>0.0255</b>	<b>2.8000e-004</b>	<b>0.0258</b>	<b>6.9200e-003</b>	<b>2.6000e-004</b>	<b>7.1800e-003</b>	<b>0.0000</b>	<b>37.2293</b>	<b>37.2293</b>	<b>1.8700e-003</b>	<b>0.0000</b>	<b>37.2760</b>

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**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5000e-004	0.0200	3.9100e-003	5.0000e-005	1.2100e-003	1.1000e-004	1.3300e-003	3.5000e-004	1.1000e-004	4.6000e-004	0.0000	4.7210	4.7210	3.8000e-004	0.0000	4.7305
Worker	2.2100e-003	1.5500e-003	0.0165	5.0000e-005	5.2800e-003	3.0000e-005	5.3100e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.4140	4.4140	1.1000e-004	0.0000	4.4168
<b>Total</b>	<b>2.7600e-003</b>	<b>0.0215</b>	<b>0.0204</b>	<b>1.0000e-004</b>	<b>6.4900e-003</b>	<b>1.4000e-004</b>	<b>6.6400e-003</b>	<b>1.7500e-003</b>	<b>1.4000e-004</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>9.1351</b>	<b>9.1351</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>9.1473</b>

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**Mitigated Construction On-Site**

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

**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	5.5000e-004	0.0200	3.9100e-003	5.0000e-005	1.1400e-003	1.1000e-004	1.2500e-003	3.3000e-004	1.1000e-004	4.4000e-004	0.0000	4.7210	4.7210	3.8000e-004	0.0000	4.7305
Worker	2.2100e-003	1.5500e-003	0.0165	5.0000e-005	4.8600e-003	3.0000e-005	4.9000e-003	1.3000e-003	3.0000e-005	1.3300e-003	0.0000	4.4140	4.4140	1.1000e-004	0.0000	4.4168
<b>Total</b>	<b>2.7600e-003</b>	<b>0.0215</b>	<b>0.0204</b>	<b>1.0000e-004</b>	<b>6.0000e-003</b>	<b>1.4000e-004</b>	<b>6.1500e-003</b>	<b>1.6300e-003</b>	<b>1.4000e-004</b>	<b>1.7700e-003</b>	<b>0.0000</b>	<b>9.1351</b>	<b>9.1351</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>9.1473</b>

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**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	6.2000e-004	0.0241	4.6300e-003	7.0000e-005	1.6300e-003	5.0000e-005	1.6800e-003	4.7000e-004	4.0000e-005	5.1000e-004	0.0000	6.2945	6.2945	4.8000e-004	0.0000	6.3065
Worker	2.7700e-003	1.8600e-003	0.0203	6.0000e-005	7.0900e-003	4.0000e-005	7.1300e-003	1.8800e-003	4.0000e-005	1.9200e-003	0.0000	5.7331	5.7331	1.3000e-004	0.0000	5.7364
<b>Total</b>	<b>3.3900e-003</b>	<b>0.0259</b>	<b>0.0249</b>	<b>1.3000e-004</b>	<b>8.7200e-003</b>	<b>9.0000e-005</b>	<b>8.8100e-003</b>	<b>2.3500e-003</b>	<b>8.0000e-005</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>12.0276</b>	<b>12.0276</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>12.0429</b>

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**Mitigated Construction On-Site**

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

**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	6.2000e-004	0.0241	4.6300e-003	7.0000e-005	1.5300e-003	5.0000e-005	1.5700e-003	4.4000e-004	4.0000e-005	4.9000e-004	0.0000	6.2945	6.2945	4.8000e-004	0.0000	6.3065
Worker	2.7700e-003	1.8600e-003	0.0203	6.0000e-005	6.5400e-003	4.0000e-005	6.5800e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	5.7331	5.7331	1.3000e-004	0.0000	5.7364
<b>Total</b>	<b>3.3900e-003</b>	<b>0.0259</b>	<b>0.0249</b>	<b>1.3000e-004</b>	<b>8.0700e-003</b>	<b>9.0000e-005</b>	<b>8.1500e-003</b>	<b>2.1900e-003</b>	<b>8.0000e-005</b>	<b>2.2800e-003</b>	<b>0.0000</b>	<b>12.0276</b>	<b>12.0276</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>12.0429</b>

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**3.9 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	2.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.5500e-003</b>	<b>0.0532</b>	<b>0.0589</b>	<b>9.0000e-005</b>		<b>2.9100e-003</b>	<b>2.9100e-003</b>		<b>2.6900e-003</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>7.7524</b>	<b>7.7524</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8138</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.3600e-003	1.0000e-005	8.2000e-004	0.0000	8.3000e-004	2.2000e-004	0.0000	2.2000e-004	0.0000	0.6666	0.6666	2.0000e-005	0.0000	0.6670
<b>Total</b>	<b>3.2000e-004</b>	<b>2.2000e-004</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>8.3000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.6666</b>	<b>0.6666</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6670</b>



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**3.9 Paving - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	2.2300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.5500e-003</b>	<b>0.0532</b>	<b>0.0589</b>	<b>9.0000e-005</b>		<b>2.9100e-003</b>	<b>2.9100e-003</b>		<b>2.6900e-003</b>	<b>2.6900e-003</b>	<b>0.0000</b>	<b>7.7524</b>	<b>7.7524</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8138</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.3600e-003	1.0000e-005	7.6000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6666	0.6666	2.0000e-005	0.0000	0.6670
<b>Total</b>	<b>3.2000e-004</b>	<b>2.2000e-004</b>	<b>2.3600e-003</b>	<b>1.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>0.6666</b>	<b>0.6666</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6670</b>

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**3.10 Architectural Coating - 2021**

**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	0.1813					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
<b>Total</b>	<b>0.1824</b>	<b>7.6300e-003</b>	<b>9.0900e-003</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2788</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3555	0.3555	1.0000e-005	0.0000	0.3558
<b>Total</b>	<b>1.7000e-004</b>	<b>1.2000e-004</b>	<b>1.2600e-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>0.3555</b>	<b>0.3555</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3558</b>

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**3.10 Architectural Coating - 2021**

**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	0.1813					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
<b>Total</b>	<b>0.1824</b>	<b>7.6300e-003</b>	<b>9.0900e-003</b>	<b>1.0000e-005</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>		<b>4.7000e-004</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.2788</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	1.7000e-004	1.2000e-004	1.2600e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3555	0.3555	1.0000e-005	0.0000	0.3558
<b>Total</b>	<b>1.7000e-004</b>	<b>1.2000e-004</b>	<b>1.2600e-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>0.3555</b>	<b>0.3555</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3558</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

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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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	56.7508	56.7508	1.2400e-003	2.6000e-004	56.8584
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	63.4707	63.4707	1.3900e-003	2.9000e-004	63.5910
NaturalGas Mitigated	4.8000e-004	4.3800e-003	3.6800e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7688	4.7688	9.0000e-005	9.0000e-005	4.7972
NaturalGas Unmitigated	6.3000e-004	5.7500e-003	4.8300e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2641	6.2641	1.2000e-004	1.1000e-004	6.3013

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	117384	6.3000e-004	5.7500e-003	4.8300e-003	3.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.2641	6.2641	1.2000e-004	1.1000e-004	6.3013
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.3000e-004</b>	<b>5.7500e-003</b>	<b>4.8300e-003</b>	<b>3.0000e-005</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>		<b>4.4000e-004</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>6.2641</b>	<b>6.2641</b>	<b>1.2000e-004</b>	<b>1.1000e-004</b>	<b>6.3013</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	89364.6	4.8000e-004	4.3800e-003	3.6800e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7688	4.7688	9.0000e-005	9.0000e-005	4.7972
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>4.8000e-004</b>	<b>4.3800e-003</b>	<b>3.6800e-003</b>	<b>3.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.7688</b>	<b>4.7688</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.7972</b>

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**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	97820	58.8196	1.2900e-003	2.7000e-004	58.9311
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7735	4.6511	1.0000e-004	2.0000e-005	4.6599
<b>Total</b>		<b>63.4707</b>	<b>1.3900e-003</b>	<b>2.9000e-004</b>	<b>63.5910</b>



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**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	86644.4	52.0997	1.1400e-003	2.4000e-004	52.1985
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	7735	4.6511	1.0000e-004	2.0000e-005	4.6599
<b>Total</b>		<b>56.7508</b>	<b>1.2400e-003</b>	<b>2.6000e-004</b>	<b>56.8584</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

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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					
Mitigated	0.0707	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4800e-003	2.4800e-003	1.0000e-005	0.0000	2.6500e-003
Unmitigated	0.0707	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4800e-003	2.4800e-003	1.0000e-005	0.0000	2.6500e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4800e-003	2.4800e-003	1.0000e-005	0.0000	2.6500e-003
<b>Total</b>	<b>0.0707</b>	<b>1.0000e-005</b>	<b>1.2800e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.4800e-003</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6500e-003</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0525					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2800e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.4800e-003	2.4800e-003	1.0000e-005	0.0000	2.6500e-003
<b>Total</b>	<b>0.0707</b>	<b>1.0000e-005</b>	<b>1.2800e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.4800e-003</b>	<b>2.4800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>2.6500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.8114	5.7000e-004	2.8000e-004	8.9087
Unmitigated	9.8546	6.9000e-004	3.4000e-004	9.9739

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.388559 / 0.999151	9.8546	6.9000e-004	3.4000e-004	9.9739
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>9.8546</b>	<b>6.9000e-004</b>	<b>3.4000e-004</b>	<b>9.9739</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.310847 / 0.938203	8.8114	5.7000e-004	2.8000e-004	8.9087
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>8.8114</b>	<b>5.7000e-004</b>	<b>2.8000e-004</b>	<b>8.9087</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.5361	0.2090	0.0000	8.7605
Unmitigated	3.5361	0.2090	0.0000	8.7605

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	17.42	3.5361	0.2090	0.0000	8.7605
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.5361</b>	<b>0.2090</b>	<b>0.0000</b>	<b>8.7605</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	17.42	3.5361	0.2090	0.0000	8.7605
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.5361</b>	<b>0.2090</b>	<b>0.0000</b>	<b>8.7605</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Longfellow ES - Construction and Operation - Riverside-South Coast County, Annual

Equipment Type	Number
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## 11.0 Vegetation

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Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**Longfellow ES - Construction and Operation**  
**Riverside-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	13.40	1000sqft	0.22	13,400.00	0
Other Asphalt Surfaces	40.20	1000sqft	0.92	40,200.00	0
Other Asphalt Surfaces	11.80	1000sqft	0.27	0.00	0
Other Non-Asphalt Surfaces	12.50	1000sqft	0.29	0.00	0
Parking Lot	22.10	1000sqft	0.51	22,100.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Riverside Public Utilities				
<b>CO2 Intensity (lb/MW hr)</b>	1325.65	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

- Project Characteristics -
- Land Use - refer to caleemod inputs
- Construction Phase - See Assumptions
- Off-road Equipment -
- Off-road Equipment -

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

- Off-road Equipment - No modernization equipment
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment - Only crane needed for portable building haul
- Off-road Equipment -
- Off-road Equipment - caleemod inputs
- Trips and VMT - Vendor trips added for water trucks.
- Demolition -
- Architectural Coating - Added sqft for modernization of buildings
- Vehicle Trips - No increase in trips
- Area Coating - Added sqft for modernizations
- Water And Wastewater - 100% aerobic
- Construction Off-road Equipment Mitigation - SCAQMD rule 403
- Energy Mitigation - 2019 Building and Energy Efficiency Standards (CEC 2018)
- Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,700.00	18,625.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	20,100.00	55,875.00
tblAreaCoating	Area_Nonresidential_Exterior	6700	18625
tblAreaCoating	Area_Nonresidential_Interior	20100	55875
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	225.00
tblConstructionPhase	NumDays	220.00	225.00

## Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

tblLandUse	LandUseSquareFeet	11,800.00	0.00
tblLandUse	LandUseSquareFeet	12,500.00	0.00
tblLandUse	LotAcreage	0.31	0.22
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	92.00	93.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	12.00	4.00
tblTripsAndVMT	WorkerTripNumber	32.00	10.00
tblTripsAndVMT	WorkerTripNumber	6.00	8.00
tblVehicleTrips	WD_TR	15.43	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

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Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
Energy	3.4700e-003	0.0315	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.8353	37.8353	7.3000e-004	6.9000e-004	38.0601
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.3912</b>	<b>0.0316</b>	<b>0.0367</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.4400e-003</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>2.4400e-003</b>	<b>2.4400e-003</b>		<b>37.8572</b>	<b>37.8572</b>	<b>7.9000e-004</b>	<b>6.9000e-004</b>	<b>38.0835</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
Energy	2.6400e-003	0.0240	0.0202	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.8041	28.8041	5.5000e-004	5.3000e-004	28.9752
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.3903</b>	<b>0.0241</b>	<b>0.0304</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>1.8600e-003</b>	<b>1.8600e-003</b>		<b>28.8260</b>	<b>28.8260</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>28.9986</b>

## Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

	ROG	NOx	CO	SO2	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	0.21	23.81	17.21	26.32	0.00	23.77	23.77	0.00	23.77	23.77	0.00	23.86	23.86	22.78	23.19	23.86

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Demo Haul	Demolition	7/1/2020	7/28/2020	5	20	
3	Site Preparation	Site Preparation	7/29/2020	7/31/2020	5	3	
4	Grading	Grading	8/1/2020	8/10/2020	5	6	
5	Utility Trenching	Trenching	8/11/2020	8/19/2020	5	7	
6	Building Construction	Building Construction	8/20/2020	6/30/2021	5	225	
7	Building Modernization	Building Construction	8/20/2020	6/30/2021	5	225	
8	Paving	Paving	6/17/2021	6/30/2021	5	10	
9	Architectural Coating	Architectural Coating	6/17/2021	6/30/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.99

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 55,875; Non-Residential Outdoor: 18,625; Striped Parking Area: 3,738 (Architectural Coating – sqft)

#### OffRoad Equipment

## Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Demo Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Utility Trenching	Bore/Drill Rigs	1	8.00	221	0.50
Utility Trenching	Excavators	1	8.00	158	0.38
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Building Modernization	Cranes	0	8.00	231	0.29
Building Modernization	Forklifts	0	7.00	89	0.20
Building Modernization	Generator Sets	0	8.00	84	0.74
Building Modernization	Tractors/Loaders/Backhoes	0	6.00	97	0.37

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

Building Modernization	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demo Haul	0	0.00	0.00	93.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	32.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Modernization	0	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	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



Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0000</b>	<b>1.1525</b>	<b>1.1525</b>	<b>0.0000</b>	<b>1.0761</b>	<b>1.0761</b>		<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0662	0.0391	0.5242	1.4400e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0394		143.2073	143.2073	3.6700e-003		143.2991
<b>Total</b>	<b>0.0773</b>	<b>0.4507</b>	<b>0.5995</b>	<b>2.4800e-003</b>	<b>0.1709</b>	<b>3.2200e-003</b>	<b>0.1742</b>	<b>0.0459</b>	<b>3.0500e-003</b>	<b>0.0490</b>		<b>253.3637</b>	<b>253.3637</b>	<b>0.0119</b>		<b>253.6620</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0000</b>	<b>1.1525</b>	<b>1.1525</b>	<b>0.0000</b>	<b>1.0761</b>	<b>1.0761</b>	<b>0.0000</b>	<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</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
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0240	2.3400e-003	0.0263	6.9700e-003	2.2400e-003	9.2100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0662	0.0391	0.5242	1.4400e-003	0.1339	8.8000e-004	0.1348	0.0358	8.1000e-004	0.0366		143.2073	143.2073	3.6700e-003		143.2991
<b>Total</b>	<b>0.0773</b>	<b>0.4507</b>	<b>0.5995</b>	<b>2.4800e-003</b>	<b>0.1579</b>	<b>3.2200e-003</b>	<b>0.1611</b>	<b>0.0427</b>	<b>3.0500e-003</b>	<b>0.0458</b>		<b>253.3637</b>	<b>253.3637</b>	<b>0.0119</b>		<b>253.6620</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.3 Demo Haul - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0066	0.0000	1.0066	0.1524	0.0000	0.1524			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>1.0066</b>	<b>0.0000</b>	<b>1.0066</b>	<b>0.1524</b>	<b>0.0000</b>	<b>0.1524</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0239	1.1011	0.1359	3.5400e-003	0.0814	3.5100e-003	0.0849	0.0223	3.3600e-003	0.0257		375.6118	375.6118	0.0224		376.1714
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
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
<b>Total</b>	<b>0.0239</b>	<b>1.1011</b>	<b>0.1359</b>	<b>3.5400e-003</b>	<b>0.0814</b>	<b>3.5100e-003</b>	<b>0.0849</b>	<b>0.0223</b>	<b>3.3600e-003</b>	<b>0.0257</b>		<b>375.6118</b>	<b>375.6118</b>	<b>0.0224</b>		<b>376.1714</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4303	0.0000	0.4303	0.0652	0.0000	0.0652			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.4303</b>	<b>0.0000</b>	<b>0.4303</b>	<b>0.0652</b>	<b>0.0000</b>	<b>0.0652</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0239	1.1011	0.1359	3.5400e-003	0.0758	3.5100e-003	0.0793	0.0209	3.3600e-003	0.0243		375.6118	375.6118	0.0224		376.1714
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
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
<b>Total</b>	<b>0.0239</b>	<b>1.1011</b>	<b>0.1359</b>	<b>3.5400e-003</b>	<b>0.0758</b>	<b>3.5100e-003</b>	<b>0.0793</b>	<b>0.0209</b>	<b>3.3600e-003</b>	<b>0.0243</b>		<b>375.6118</b>	<b>375.6118</b>	<b>0.0224</b>		<b>376.1714</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.4 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.9062	2,372.9062	0.7675		2,392.0924
<b>Total</b>	<b>1.6521</b>	<b>19.9196</b>	<b>11.2678</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.7771</b>	<b>2.3678</b>	<b>0.1718</b>	<b>0.7149</b>	<b>0.8867</b>		<b>2,372.9062</b>	<b>2,372.9062</b>	<b>0.7675</b>		<b>2,392.0924</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0407	0.0241	0.3226	8.8000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		88.1276	88.1276	2.2600e-003		88.1840
<b>Total</b>	<b>0.0519</b>	<b>0.4357</b>	<b>0.3979</b>	<b>1.9200e-003</b>	<b>0.1150</b>	<b>2.8800e-003</b>	<b>0.1179</b>	<b>0.0311</b>	<b>2.7400e-003</b>	<b>0.0338</b>		<b>198.2839</b>	<b>198.2839</b>	<b>0.0105</b>		<b>198.5470</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6801	0.0000	0.6801	0.0734	0.0000	0.0734			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.9062	2,372.9062	0.7675		2,392.0924
<b>Total</b>	<b>1.6521</b>	<b>19.9196</b>	<b>11.2678</b>	<b>0.0245</b>	<b>0.6801</b>	<b>0.7771</b>	<b>1.4571</b>	<b>0.0734</b>	<b>0.7149</b>	<b>0.7883</b>	<b>0.0000</b>	<b>2,372.9062</b>	<b>2,372.9062</b>	<b>0.7675</b>		<b>2,392.0924</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
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0240	2.3400e-003	0.0263	6.9700e-003	2.2400e-003	9.2100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0407	0.0241	0.3226	8.8000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		88.1276	88.1276	2.2600e-003		88.1840
<b>Total</b>	<b>0.0519</b>	<b>0.4357</b>	<b>0.3979</b>	<b>1.9200e-003</b>	<b>0.1064</b>	<b>2.8800e-003</b>	<b>0.1093</b>	<b>0.0290</b>	<b>2.7400e-003</b>	<b>0.0317</b>		<b>198.2839</b>	<b>198.2839</b>	<b>0.0105</b>		<b>198.5470</b>

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**3.5 Grading - 2020**

**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	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.4061	1,996.4061	0.6457		2,012.5480
<b>Total</b>	<b>1.9219</b>	<b>21.3418</b>	<b>9.9355</b>	<b>0.0206</b>	<b>6.5523</b>	<b>0.9902</b>	<b>7.5425</b>	<b>3.3675</b>	<b>0.9110</b>	<b>4.2784</b>		<b>1,996.4061</b>	<b>1,996.4061</b>	<b>0.6457</b>		<b>2,012.5480</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0509	0.0301	0.4032	1.1100e-003	0.1118	6.8000e-004	0.1125	0.0296	6.2000e-004	0.0303		110.1595	110.1595	2.8200e-003		110.2301
<b>Total</b>	<b>0.0620</b>	<b>0.4417</b>	<b>0.4785</b>	<b>2.1500e-003</b>	<b>0.1374</b>	<b>3.0200e-003</b>	<b>0.1404</b>	<b>0.0370</b>	<b>2.8600e-003</b>	<b>0.0399</b>		<b>220.3158</b>	<b>220.3158</b>	<b>0.0111</b>		<b>220.5930</b>

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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.4061	1,996.4061	0.6457		2,012.5480
<b>Total</b>	<b>1.9219</b>	<b>21.3418</b>	<b>9.9355</b>	<b>0.0206</b>	<b>2.8011</b>	<b>0.9902</b>	<b>3.7913</b>	<b>1.4396</b>	<b>0.9110</b>	<b>2.3506</b>	<b>0.0000</b>	<b>1,996.4061</b>	<b>1,996.4061</b>	<b>0.6457</b>		<b>2,012.5480</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
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0240	2.3400e-003	0.0263	6.9700e-003	2.2400e-003	9.2100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0509	0.0301	0.4032	1.1100e-003	0.1030	6.8000e-004	0.1037	0.0275	6.2000e-004	0.0281		110.1595	110.1595	2.8200e-003		110.2301
<b>Total</b>	<b>0.0620</b>	<b>0.4417</b>	<b>0.4785</b>	<b>2.1500e-003</b>	<b>0.1270</b>	<b>3.0200e-003</b>	<b>0.1300</b>	<b>0.0345</b>	<b>2.8600e-003</b>	<b>0.0373</b>		<b>220.3158</b>	<b>220.3158</b>	<b>0.0111</b>		<b>220.5930</b>



Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.6 Utility Trenching - 2020**

**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	0.7320	8.0400	7.6283	0.0177		0.3515	0.3515		0.3234	0.3234		1,710.6938	1,710.6938	0.5533		1,724.5256
<b>Total</b>	<b>0.7320</b>	<b>8.0400</b>	<b>7.6283</b>	<b>0.0177</b>		<b>0.3515</b>	<b>0.3515</b>		<b>0.3234</b>	<b>0.3234</b>		<b>1,710.6938</b>	<b>1,710.6938</b>	<b>0.5533</b>		<b>1,724.5256</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0241	0.3226	8.8000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		88.1276	88.1276	2.2600e-003		88.1840
<b>Total</b>	<b>0.0407</b>	<b>0.0241</b>	<b>0.3226</b>	<b>8.8000e-004</b>	<b>0.0894</b>	<b>5.4000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.0000e-004</b>	<b>0.0242</b>		<b>88.1276</b>	<b>88.1276</b>	<b>2.2600e-003</b>		<b>88.1840</b>

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**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7320	8.0400	7.6283	0.0177		0.3515	0.3515		0.3234	0.3234	0.0000	1,710.6938	1,710.6938	0.5533		1,724.5256
<b>Total</b>	<b>0.7320</b>	<b>8.0400</b>	<b>7.6283</b>	<b>0.0177</b>		<b>0.3515</b>	<b>0.3515</b>		<b>0.3234</b>	<b>0.3234</b>	<b>0.0000</b>	<b>1,710.6938</b>	<b>1,710.6938</b>	<b>0.5533</b>		<b>1,724.5256</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
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
Worker	0.0407	0.0241	0.3226	8.8000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		88.1276	88.1276	2.2600e-003		88.1840
<b>Total</b>	<b>0.0407</b>	<b>0.0241</b>	<b>0.3226</b>	<b>8.8000e-004</b>	<b>0.0824</b>	<b>5.4000e-004</b>	<b>0.0830</b>	<b>0.0220</b>	<b>5.0000e-004</b>	<b>0.0225</b>		<b>88.1276</b>	<b>88.1276</b>	<b>2.2600e-003</b>		<b>88.1840</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.7 Building Construction - 2020**

**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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>		<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0335	1.2347	0.2259	3.1300e-003	0.0768	7.0200e-003	0.0839	0.0221	6.7200e-003	0.0288		330.4691	330.4691	0.0248		331.0888
Worker	0.1628	0.0963	1.2903	3.5400e-003	0.3577	2.1700e-003	0.3599	0.0949	1.9900e-003	0.0969		352.5103	352.5103	9.0400e-003		352.7362
<b>Total</b>	<b>0.1963</b>	<b>1.3310</b>	<b>1.5162</b>	<b>6.6700e-003</b>	<b>0.4345</b>	<b>9.1900e-003</b>	<b>0.4437</b>	<b>0.1170</b>	<b>8.7100e-003</b>	<b>0.1257</b>		<b>682.9794</b>	<b>682.9794</b>	<b>0.0338</b>		<b>683.8249</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>	<b>0.0000</b>	<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</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
Vendor	0.0335	1.2347	0.2259	3.1300e-003	0.0719	7.0200e-003	0.0789	0.0209	6.7200e-003	0.0276		330.4691	330.4691	0.0248		331.0888
Worker	0.1628	0.0963	1.2903	3.5400e-003	0.3297	2.1700e-003	0.3319	0.0880	1.9900e-003	0.0900		352.5103	352.5103	9.0400e-003		352.7362
<b>Total</b>	<b>0.1963</b>	<b>1.3310</b>	<b>1.5162</b>	<b>6.6700e-003</b>	<b>0.4016</b>	<b>9.1900e-003</b>	<b>0.4108</b>	<b>0.1089</b>	<b>8.7100e-003</b>	<b>0.1176</b>		<b>682.9794</b>	<b>682.9794</b>	<b>0.0338</b>		<b>683.8249</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.7 Building Construction - 2021**

**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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>		<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0280	1.1105	0.1981	3.1100e-003	0.0768	2.1100e-003	0.0790	0.0221	2.0200e-003	0.0241		327.9012	327.9012	0.0235		328.4877
Worker	0.1517	0.0864	1.1831	3.4200e-003	0.3577	2.1100e-003	0.3598	0.0949	1.9400e-003	0.0968		340.7203	340.7203	8.1200e-003		340.9234
<b>Total</b>	<b>0.1797</b>	<b>1.1969</b>	<b>1.3812</b>	<b>6.5300e-003</b>	<b>0.4345</b>	<b>4.2200e-003</b>	<b>0.4387</b>	<b>0.1170</b>	<b>3.9600e-003</b>	<b>0.1209</b>		<b>668.6215</b>	<b>668.6215</b>	<b>0.0316</b>		<b>669.4111</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>	<b>0.0000</b>	<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</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
Vendor	0.0280	1.1105	0.1981	3.1100e-003	0.0719	2.1100e-003	0.0740	0.0209	2.0200e-003	0.0229		327.9012	327.9012	0.0235		328.4877
Worker	0.1517	0.0864	1.1831	3.4200e-003	0.3297	2.1100e-003	0.3318	0.0880	1.9400e-003	0.0899		340.7203	340.7203	8.1200e-003		340.9234
<b>Total</b>	<b>0.1797</b>	<b>1.1969</b>	<b>1.3812</b>	<b>6.5300e-003</b>	<b>0.4016</b>	<b>4.2200e-003</b>	<b>0.4058</b>	<b>0.1089</b>	<b>3.9600e-003</b>	<b>0.1129</b>		<b>668.6215</b>	<b>668.6215</b>	<b>0.0316</b>		<b>669.4111</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.8 Building Modernization - 2020**

**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	0.0000	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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0256	2.3400e-003	0.0280	7.3700e-003	2.2400e-003	9.6100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0509	0.0301	0.4032	1.1100e-003	0.1118	6.8000e-004	0.1125	0.0296	6.2000e-004	0.0303		110.1595	110.1595	2.8200e-003		110.2301
<b>Total</b>	<b>0.0620</b>	<b>0.4417</b>	<b>0.4785</b>	<b>2.1500e-003</b>	<b>0.1374</b>	<b>3.0200e-003</b>	<b>0.1404</b>	<b>0.0370</b>	<b>2.8600e-003</b>	<b>0.0399</b>		<b>220.3158</b>	<b>220.3158</b>	<b>0.0111</b>		<b>220.5930</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**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	0.0000	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>

**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
Vendor	0.0112	0.4116	0.0753	1.0400e-003	0.0240	2.3400e-003	0.0263	6.9700e-003	2.2400e-003	9.2100e-003		110.1564	110.1564	8.2600e-003		110.3629
Worker	0.0509	0.0301	0.4032	1.1100e-003	0.1030	6.8000e-004	0.1037	0.0275	6.2000e-004	0.0281		110.1595	110.1595	2.8200e-003		110.2301
<b>Total</b>	<b>0.0620</b>	<b>0.4417</b>	<b>0.4785</b>	<b>2.1500e-003</b>	<b>0.1270</b>	<b>3.0200e-003</b>	<b>0.1300</b>	<b>0.0345</b>	<b>2.8600e-003</b>	<b>0.0373</b>		<b>220.3158</b>	<b>220.3158</b>	<b>0.0111</b>		<b>220.5930</b>



Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.8 Building Modernization - 2021**

**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	0.0000	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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.3400e-003	0.3702	0.0660	1.0400e-003	0.0256	7.0000e-004	0.0263	7.3700e-003	6.7000e-004	8.0500e-003		109.3004	109.3004	7.8200e-003		109.4959
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0568</b>	<b>0.3972</b>	<b>0.4358</b>	<b>2.1100e-003</b>	<b>0.1374</b>	<b>1.3600e-003</b>	<b>0.1388</b>	<b>0.0370</b>	<b>1.2800e-003</b>	<b>0.0383</b>		<b>215.7755</b>	<b>215.7755</b>	<b>0.0104</b>		<b>216.0345</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**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	0.0000	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>

**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
Vendor	9.3400e-003	0.3702	0.0660	1.0400e-003	0.0240	7.0000e-004	0.0247	6.9700e-003	6.7000e-004	7.6400e-003		109.3004	109.3004	7.8200e-003		109.4959
Worker	0.0474	0.0270	0.3697	1.0700e-003	0.1030	6.6000e-004	0.1037	0.0275	6.1000e-004	0.0281		106.4751	106.4751	2.5400e-003		106.5386
<b>Total</b>	<b>0.0568</b>	<b>0.3972</b>	<b>0.4358</b>	<b>2.1100e-003</b>	<b>0.1270</b>	<b>1.3600e-003</b>	<b>0.1284</b>	<b>0.0345</b>	<b>1.2800e-003</b>	<b>0.0357</b>		<b>215.7755</b>	<b>215.7755</b>	<b>0.0104</b>		<b>216.0345</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.9 Paving - 2021**

**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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5087</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>		<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
<b>Total</b>	<b>0.0711</b>	<b>0.0405</b>	<b>0.5546</b>	<b>1.6000e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>159.7126</b>	<b>159.7126</b>	<b>3.8100e-003</b>		<b>159.8078</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5087</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</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
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
Worker	0.0711	0.0405	0.5546	1.6000e-003	0.1546	9.9000e-004	0.1555	0.0413	9.1000e-004	0.0422		159.7126	159.7126	3.8100e-003		159.8078
<b>Total</b>	<b>0.0711</b>	<b>0.0405</b>	<b>0.5546</b>	<b>1.6000e-003</b>	<b>0.1546</b>	<b>9.9000e-004</b>	<b>0.1555</b>	<b>0.0413</b>	<b>9.1000e-004</b>	<b>0.0422</b>		<b>159.7126</b>	<b>159.7126</b>	<b>3.8100e-003</b>		<b>159.8078</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**3.10 Architectural Coating - 2021**

**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	36.2633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>36.4822</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0379	0.0216	0.2958	8.5000e-004	0.0894	5.3000e-004	0.0900	0.0237	4.9000e-004	0.0242		85.1801	85.1801	2.0300e-003		85.2309
<b>Total</b>	<b>0.0379</b>	<b>0.0216</b>	<b>0.2958</b>	<b>8.5000e-004</b>	<b>0.0894</b>	<b>5.3000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>4.9000e-004</b>	<b>0.0242</b>		<b>85.1801</b>	<b>85.1801</b>	<b>2.0300e-003</b>		<b>85.2309</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**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	36.2633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>36.4822</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</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
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
Worker	0.0379	0.0216	0.2958	8.5000e-004	0.0824	5.3000e-004	0.0830	0.0220	4.9000e-004	0.0225		85.1801	85.1801	2.0300e-003		85.2309
<b>Total</b>	<b>0.0379</b>	<b>0.0216</b>	<b>0.2958</b>	<b>8.5000e-004</b>	<b>0.0824</b>	<b>5.3000e-004</b>	<b>0.0830</b>	<b>0.0220</b>	<b>4.9000e-004</b>	<b>0.0225</b>		<b>85.1801</b>	<b>85.1801</b>	<b>2.0300e-003</b>		<b>85.2309</b>

**4.0 Operational Detail - Mobile**

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Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	2.6400e-003	0.0240	0.0202	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.8041	28.8041	5.5000e-004	5.3000e-004	28.9752
Natural Gas Unmitigated	3.4700e-003	0.0315	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.8353	37.8353	7.3000e-004	6.9000e-004	38.0601



Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

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

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School:	321.6	3.4700e-003	0.0315	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.8353	37.8353	7.3000e-004	6.9000e-004	38.0601
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.4700e-003</b>	<b>0.0315</b>	<b>0.0265</b>	<b>1.9000e-004</b>		<b>2.4000e-003</b>	<b>2.4000e-003</b>		<b>2.4000e-003</b>	<b>2.4000e-003</b>		<b>37.8353</b>	<b>37.8353</b>	<b>7.3000e-004</b>	<b>6.9000e-004</b>	<b>38.0601</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	0.244835	2.6400e-003	0.0240	0.0202	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.8041	28.8041	5.5000e-004	5.3000e-004	28.9752
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.6400e-003</b>	<b>0.0240</b>	<b>0.0202</b>	<b>1.4000e-004</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>28.8041</b>	<b>28.8041</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>28.9752</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

Unmitigated	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
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6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.6000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
<b>Total</b>	<b>0.3877</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0219</b>	<b>0.0219</b>	<b>6.0000e-005</b>		<b>0.0233</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.6000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
<b>Total</b>	<b>0.3877</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0219</b>	<b>0.0219</b>	<b>6.0000e-005</b>		<b>0.0233</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Longfellow ES - Construction and Operation - Riverside-South Coast County, Summer

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**Longfellow ES - Construction and Operation**  
**Riverside-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	13.40	1000sqft	0.22	13,400.00	0
Other Asphalt Surfaces	40.20	1000sqft	0.92	40,200.00	0
Other Asphalt Surfaces	11.80	1000sqft	0.27	0.00	0
Other Non-Asphalt Surfaces	12.50	1000sqft	0.29	0.00	0
Parking Lot	22.10	1000sqft	0.51	22,100.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.4	<b>Precipitation Freq (Days)</b>	28
<b>Climate Zone</b>	10			<b>Operational Year</b>	2021
<b>Utility Company</b>	Riverside Public Utilities				
<b>CO2 Intensity (lb/MWhr)</b>	1325.65	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

Project Characteristics -

Land Use - refer to caleemod inputs

Construction Phase - See Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - No modernization equipment

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Only crane needed for portable building haul

Off-road Equipment -

Off-road Equipment - caleemod inputs

Trips and VMT - Vendor trips added for water trucks.

Demolition -

Architectural Coating - Added sqft for modernization of buildings

Vehicle Trips - No increase in trips

Area Coating - Added sqft for modernizations

Water And Wastewater - 100% aerobic

Construction Off-road Equipment Mitigation - SCAQMD rule 403

Energy Mitigation - 2019 Building and Energy Efficiency Standards (CEC 2018)

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,700.00	18,625.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	20,100.00	55,875.00
tblAreaCoating	Area_Nonresidential_Exterior	6700	18625
tblAreaCoating	Area_Nonresidential_Interior	20100	55875

## Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	220.00	225.00
tblConstructionPhase	NumDays	220.00	225.00
tblLandUse	LandUseSquareFeet	11,800.00	0.00
tblLandUse	LandUseSquareFeet	12,500.00	0.00
tblLandUse	LotAcreage	0.31	0.22
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblTripsAndVMT	HaulingTripNumber	92.00	93.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	12.00	4.00
tblTripsAndVMT	WorkerTripNumber	32.00	10.00
tblTripsAndVMT	WorkerTripNumber	6.00	8.00
tblVehicleTrips	WD_TR	15.43	0.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00



Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**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					
2020	2.5442	22.5069	16.6197	0.0332	6.6897	1.1593	7.6829	3.4045	1.0826	4.3183	0.0000	3,128.015 2	3,128.015 2	0.7786	0.0000	3,140.806 0
2021	40.3781	29.8516	30.4084	0.0561	0.8290	1.5011	2.3301	0.2222	1.4210	1.6432	0.0000	5,321.127 3	5,321.127 3	1.0605	0.0000	5,347.639 8
<b>Maximum</b>	<b>40.3781</b>	<b>29.8516</b>	<b>30.4084</b>	<b>0.0561</b>	<b>6.6897</b>	<b>1.5011</b>	<b>7.6829</b>	<b>3.4045</b>	<b>1.4210</b>	<b>4.3183</b>	<b>0.0000</b>	<b>5,321.127 3</b>	<b>5,321.127 3</b>	<b>1.0605</b>	<b>0.0000</b>	<b>5,347.639 8</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.5442	22.5069	16.6197	0.0332	2.9281	1.1593	3.9213	1.4741	1.0826	2.3879	0.0000	3,128.015 2	3,128.015 2	0.7786	0.0000	3,140.806 0
2021	40.3781	29.8516	30.4084	0.0561	0.7656	1.5011	2.2667	0.2066	1.4210	1.6276	0.0000	5,321.127 2	5,321.127 2	1.0605	0.0000	5,347.639 8
<b>Maximum</b>	<b>40.3781</b>	<b>29.8516</b>	<b>30.4084</b>	<b>0.0561</b>	<b>2.9281</b>	<b>1.5011</b>	<b>3.9213</b>	<b>1.4741</b>	<b>1.4210</b>	<b>2.3879</b>	<b>0.0000</b>	<b>5,321.127 2</b>	<b>5,321.127 2</b>	<b>1.0605</b>	<b>0.0000</b>	<b>5,347.639 8</b>

## Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	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	50.87	0.00	38.20	53.66	0.00	32.64	0.00	0.00	0.00	0.00	0.00	0.00

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
Energy	3.4700e-003	0.0315	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.8353	37.8353	7.3000e-004	6.9000e-004	38.0601
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.3912</b>	<b>0.0316</b>	<b>0.0367</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.4400e-003</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>2.4400e-003</b>	<b>2.4400e-003</b>		<b>37.8572</b>	<b>37.8572</b>	<b>7.9000e-004</b>	<b>6.9000e-004</b>	<b>38.0835</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
Energy	2.6400e-003	0.0240	0.0202	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.8041	28.8041	5.5000e-004	5.3000e-004	28.9752
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.3903</b>	<b>0.0241</b>	<b>0.0304</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>	<b>1.8600e-003</b>	<b>1.8600e-003</b>		<b>28.8260</b>	<b>28.8260</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>28.9986</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.21	23.81	17.21	26.32	0.00	23.77	23.77	0.00	23.77	23.77	0.00	23.86	23.86	22.78	23.19	23.86

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2020	7/28/2020	5	20	
2	Demo Haul	Demolition	7/1/2020	7/28/2020	5	20	
3	Site Preparation	Site Preparation	7/29/2020	7/31/2020	5	3	
4	Grading	Grading	8/1/2020	8/10/2020	5	6	
5	Utility Trenching	Trenching	8/11/2020	8/19/2020	5	7	
6	Building Construction	Building Construction	8/20/2020	6/30/2021	5	225	
7	Building Modernization	Building Construction	8/20/2020	6/30/2021	5	225	
8	Paving	Paving	6/17/2021	6/30/2021	5	10	
9	Architectural Coating	Architectural Coating	6/17/2021	6/30/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.99

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 55,875; Non-Residential Outdoor: 18,625; Striped Parking Area: 3,738 (Architectural Coating – sqft)

#### OffRoad Equipment

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

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Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Demo Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Utility Trenching	Bore/Drill Rigs	1	8.00	221	0.50
Utility Trenching	Excavators	1	8.00	158	0.38
Utility Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Building Modernization	Cranes	0	8.00	231	0.29
Building Modernization	Forklifts	0	7.00	89	0.20
Building Modernization	Generator Sets	0	8.00	84	0.74
Building Modernization	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Modernization	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demo Haul	0	0.00	0.00	93.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	32.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Modernization	0	10.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	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

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0000</b>	<b>1.1525</b>	<b>1.1525</b>	<b>0.0000</b>	<b>1.0761</b>	<b>1.0761</b>		<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0648	0.0405	0.4240	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0394		128.4707	128.4707	3.1900e-003		128.5504
<b>Total</b>	<b>0.0766</b>	<b>0.4499</b>	<b>0.5122</b>	<b>2.3000e-003</b>	<b>0.1709</b>	<b>3.2500e-003</b>	<b>0.1742</b>	<b>0.0459</b>	<b>3.0800e-003</b>	<b>0.0490</b>		<b>234.4878</b>	<b>234.4878</b>	<b>0.0124</b>		<b>234.7974</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.2 Demolition - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
<b>Total</b>	<b>2.1262</b>	<b>20.9463</b>	<b>14.6573</b>	<b>0.0241</b>	<b>0.0000</b>	<b>1.1525</b>	<b>1.1525</b>	<b>0.0000</b>	<b>1.0761</b>	<b>1.0761</b>	<b>0.0000</b>	<b>2,322.3127</b>	<b>2,322.3127</b>	<b>0.5970</b>		<b>2,337.2363</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
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0240	2.3700e-003	0.0263	6.9700e-003	2.2700e-003	9.2400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0648	0.0405	0.4240	1.2900e-003	0.1339	8.8000e-004	0.1348	0.0358	8.1000e-004	0.0366		128.4707	128.4707	3.1900e-003		128.5504
<b>Total</b>	<b>0.0766</b>	<b>0.4499</b>	<b>0.5122</b>	<b>2.3000e-003</b>	<b>0.1579</b>	<b>3.2500e-003</b>	<b>0.1612</b>	<b>0.0427</b>	<b>3.0800e-003</b>	<b>0.0458</b>		<b>234.4878</b>	<b>234.4878</b>	<b>0.0124</b>		<b>234.7974</b>



Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.3 Demo Haul - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0066	0.0000	1.0066	0.1524	0.0000	0.1524			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>1.0066</b>	<b>0.0000</b>	<b>1.0066</b>	<b>0.1524</b>	<b>0.0000</b>	<b>0.1524</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0252	1.1107	0.1591	3.4500e-003	0.0814	3.5600e-003	0.0849	0.0223	3.4000e-003	0.0257		366.2144	366.2144	0.0245		366.8269
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
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
<b>Total</b>	<b>0.0252</b>	<b>1.1107</b>	<b>0.1591</b>	<b>3.4500e-003</b>	<b>0.0814</b>	<b>3.5600e-003</b>	<b>0.0849</b>	<b>0.0223</b>	<b>3.4000e-003</b>	<b>0.0257</b>		<b>366.2144</b>	<b>366.2144</b>	<b>0.0245</b>		<b>366.8269</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.3 Demo Haul - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4303	0.0000	0.4303	0.0652	0.0000	0.0652			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.4303</b>	<b>0.0000</b>	<b>0.4303</b>	<b>0.0652</b>	<b>0.0000</b>	<b>0.0652</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0252	1.1107	0.1591	3.4500e-003	0.0758	3.5600e-003	0.0794	0.0209	3.4000e-003	0.0244		366.2144	366.2144	0.0245		366.8269
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
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
<b>Total</b>	<b>0.0252</b>	<b>1.1107</b>	<b>0.1591</b>	<b>3.4500e-003</b>	<b>0.0758</b>	<b>3.5600e-003</b>	<b>0.0794</b>	<b>0.0209</b>	<b>3.4000e-003</b>	<b>0.0244</b>		<b>366.2144</b>	<b>366.2144</b>	<b>0.0245</b>		<b>366.8269</b>

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**3.4 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.906 2	2,372.906 2	0.7675		2,392.092 4
<b>Total</b>	<b>1.6521</b>	<b>19.9196</b>	<b>11.2678</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.7771</b>	<b>2.3678</b>	<b>0.1718</b>	<b>0.7149</b>	<b>0.8867</b>		<b>2,372.906 2</b>	<b>2,372.906 2</b>	<b>0.7675</b>		<b>2,392.092 4</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0399	0.0249	0.2609	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		79.0589	79.0589	1.9600e-003		79.1080
<b>Total</b>	<b>0.0516</b>	<b>0.4343</b>	<b>0.3491</b>	<b>1.8000e-003</b>	<b>0.1150</b>	<b>2.9100e-003</b>	<b>0.1179</b>	<b>0.0311</b>	<b>2.7700e-003</b>	<b>0.0339</b>		<b>185.0760</b>	<b>185.0760</b>	<b>0.0112</b>		<b>185.3549</b>

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**3.4 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6801	0.0000	0.6801	0.0734	0.0000	0.0734			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.906 2	2,372.906 2	0.7675		2,392.092 4
<b>Total</b>	<b>1.6521</b>	<b>19.9196</b>	<b>11.2678</b>	<b>0.0245</b>	<b>0.6801</b>	<b>0.7771</b>	<b>1.4571</b>	<b>0.0734</b>	<b>0.7149</b>	<b>0.7883</b>	<b>0.0000</b>	<b>2,372.906 2</b>	<b>2,372.906 2</b>	<b>0.7675</b>		<b>2,392.092 4</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
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0240	2.3700e-003	0.0263	6.9700e-003	2.2700e-003	9.2400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0399	0.0249	0.2609	7.9000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		79.0589	79.0589	1.9600e-003		79.1080
<b>Total</b>	<b>0.0516</b>	<b>0.4343</b>	<b>0.3491</b>	<b>1.8000e-003</b>	<b>0.1064</b>	<b>2.9100e-003</b>	<b>0.1093</b>	<b>0.0290</b>	<b>2.7700e-003</b>	<b>0.0317</b>		<b>185.0760</b>	<b>185.0760</b>	<b>0.0112</b>		<b>185.3549</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.5 Grading - 2020**

**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	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.406 1	1,996.406 1	0.6457		2,012.548 0
<b>Total</b>	<b>1.9219</b>	<b>21.3418</b>	<b>9.9355</b>	<b>0.0206</b>	<b>6.5523</b>	<b>0.9902</b>	<b>7.5425</b>	<b>3.3675</b>	<b>0.9110</b>	<b>4.2784</b>		<b>1,996.406 1</b>	<b>1,996.406 1</b>	<b>0.6457</b>		<b>2,012.548 0</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0498	0.0311	0.3262	9.9000e-004	0.1118	6.8000e-004	0.1125	0.0296	6.2000e-004	0.0303		98.8236	98.8236	2.4500e-003		98.8849
<b>Total</b>	<b>0.0616</b>	<b>0.4405</b>	<b>0.4143</b>	<b>2.0000e-003</b>	<b>0.1374</b>	<b>3.0500e-003</b>	<b>0.1404</b>	<b>0.0370</b>	<b>2.8900e-003</b>	<b>0.0399</b>		<b>204.8407</b>	<b>204.8407</b>	<b>0.0116</b>		<b>205.1319</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.5 Grading - 2020**

**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	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.406 1	1,996.406 1	0.6457		2,012.548 0
<b>Total</b>	<b>1.9219</b>	<b>21.3418</b>	<b>9.9355</b>	<b>0.0206</b>	<b>2.8011</b>	<b>0.9902</b>	<b>3.7913</b>	<b>1.4396</b>	<b>0.9110</b>	<b>2.3506</b>	<b>0.0000</b>	<b>1,996.406 1</b>	<b>1,996.406 1</b>	<b>0.6457</b>		<b>2,012.548 0</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
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0240	2.3700e-003	0.0263	6.9700e-003	2.2700e-003	9.2400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0498	0.0311	0.3262	9.9000e-004	0.1030	6.8000e-004	0.1037	0.0275	6.2000e-004	0.0281		98.8236	98.8236	2.4500e-003		98.8849
<b>Total</b>	<b>0.0616</b>	<b>0.4405</b>	<b>0.4143</b>	<b>2.0000e-003</b>	<b>0.1270</b>	<b>3.0500e-003</b>	<b>0.1301</b>	<b>0.0345</b>	<b>2.8900e-003</b>	<b>0.0374</b>		<b>204.8407</b>	<b>204.8407</b>	<b>0.0116</b>		<b>205.1319</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.6 Utility Trenching - 2020**

**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	0.7320	8.0400	7.6283	0.0177		0.3515	0.3515		0.3234	0.3234		1,710.6938	1,710.6938	0.5533		1,724.5256
<b>Total</b>	<b>0.7320</b>	<b>8.0400</b>	<b>7.6283</b>	<b>0.0177</b>		<b>0.3515</b>	<b>0.3515</b>		<b>0.3234</b>	<b>0.3234</b>		<b>1,710.6938</b>	<b>1,710.6938</b>	<b>0.5533</b>		<b>1,724.5256</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0399	0.0249	0.2609	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		79.0589	79.0589	1.9600e-003		79.1080
<b>Total</b>	<b>0.0399</b>	<b>0.0249</b>	<b>0.2609</b>	<b>7.9000e-004</b>	<b>0.0894</b>	<b>5.4000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>5.0000e-004</b>	<b>0.0242</b>		<b>79.0589</b>	<b>79.0589</b>	<b>1.9600e-003</b>		<b>79.1080</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.6 Utility Trenching - 2020**

**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	0.7320	8.0400	7.6283	0.0177		0.3515	0.3515		0.3234	0.3234	0.0000	1,710.6938	1,710.6938	0.5533		1,724.5256
<b>Total</b>	<b>0.7320</b>	<b>8.0400</b>	<b>7.6283</b>	<b>0.0177</b>		<b>0.3515</b>	<b>0.3515</b>		<b>0.3234</b>	<b>0.3234</b>	<b>0.0000</b>	<b>1,710.6938</b>	<b>1,710.6938</b>	<b>0.5533</b>		<b>1,724.5256</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
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
Worker	0.0399	0.0249	0.2609	7.9000e-004	0.0824	5.4000e-004	0.0830	0.0220	5.0000e-004	0.0225		79.0589	79.0589	1.9600e-003		79.1080
<b>Total</b>	<b>0.0399</b>	<b>0.0249</b>	<b>0.2609</b>	<b>7.9000e-004</b>	<b>0.0824</b>	<b>5.4000e-004</b>	<b>0.0830</b>	<b>0.0220</b>	<b>5.0000e-004</b>	<b>0.0225</b>		<b>79.0589</b>	<b>79.0589</b>	<b>1.9600e-003</b>		<b>79.1080</b>



Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.7 Building Construction - 2020**

**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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>		<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0353	1.2282	0.2645	3.0200e-003	0.0768	7.1100e-003	0.0840	0.0221	6.8000e-003	0.0289		318.0513	318.0513	0.0276		318.7409
Worker	0.1595	0.0996	1.0438	3.1700e-003	0.3577	2.1700e-003	0.3599	0.0949	1.9900e-003	0.0969		316.2355	316.2355	7.8500e-003		316.4318
<b>Total</b>	<b>0.1948</b>	<b>1.3279</b>	<b>1.3082</b>	<b>6.1900e-003</b>	<b>0.4345</b>	<b>9.2800e-003</b>	<b>0.4438</b>	<b>0.1170</b>	<b>8.7900e-003</b>	<b>0.1258</b>		<b>634.2868</b>	<b>634.2868</b>	<b>0.0354</b>		<b>635.1727</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.7 Building Construction - 2020**

**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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>	<b>0.0000</b>	<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</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
Vendor	0.0353	1.2282	0.2645	3.0200e-003	0.0719	7.1100e-003	0.0790	0.0209	6.8000e-003	0.0277		318.0513	318.0513	0.0276		318.7409
Worker	0.1595	0.0996	1.0438	3.1700e-003	0.3297	2.1700e-003	0.3319	0.0880	1.9900e-003	0.0900		316.2355	316.2355	7.8500e-003		316.4318
<b>Total</b>	<b>0.1948</b>	<b>1.3279</b>	<b>1.3082</b>	<b>6.1900e-003</b>	<b>0.4016</b>	<b>9.2800e-003</b>	<b>0.4109</b>	<b>0.1089</b>	<b>8.7900e-003</b>	<b>0.1177</b>		<b>634.2868</b>	<b>634.2868</b>	<b>0.0354</b>		<b>635.1727</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.7 Building Construction - 2021**

**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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831		2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>		<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0298	1.1009	0.2344	2.9900e-003	0.0768	2.1800e-003	0.0790	0.0221	2.0800e-003	0.0242		315.5679	315.5679	0.0261		316.2213
Worker	0.1489	0.0894	0.9550	3.0700e-003	0.3577	2.1100e-003	0.3598	0.0949	1.9400e-003	0.0968		305.6619	305.6619	7.0600e-003		305.8385
<b>Total</b>	<b>0.1786</b>	<b>1.1903</b>	<b>1.1894</b>	<b>6.0600e-003</b>	<b>0.4345</b>	<b>4.2900e-003</b>	<b>0.4388</b>	<b>0.1170</b>	<b>4.0200e-003</b>	<b>0.1210</b>		<b>621.2298</b>	<b>621.2298</b>	<b>0.0332</b>		<b>622.0598</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.7 Building Construction - 2021**

**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	2.0451	16.0275	14.5629	0.0250		0.8173	0.8173		0.7831	0.7831	0.0000	2,288.9355	2,288.9355	0.4503		2,300.1935
<b>Total</b>	<b>2.0451</b>	<b>16.0275</b>	<b>14.5629</b>	<b>0.0250</b>		<b>0.8173</b>	<b>0.8173</b>		<b>0.7831</b>	<b>0.7831</b>	<b>0.0000</b>	<b>2,288.9355</b>	<b>2,288.9355</b>	<b>0.4503</b>		<b>2,300.1935</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
Vendor	0.0298	1.1009	0.2344	2.9900e-003	0.0719	2.1800e-003	0.0741	0.0209	2.0800e-003	0.0230		315.5679	315.5679	0.0261		316.2213
Worker	0.1489	0.0894	0.9550	3.0700e-003	0.3297	2.1100e-003	0.3318	0.0880	1.9400e-003	0.0899		305.6619	305.6619	7.0600e-003		305.8385
<b>Total</b>	<b>0.1786</b>	<b>1.1903</b>	<b>1.1894</b>	<b>6.0600e-003</b>	<b>0.4016</b>	<b>4.2900e-003</b>	<b>0.4059</b>	<b>0.1089</b>	<b>4.0200e-003</b>	<b>0.1129</b>		<b>621.2298</b>	<b>621.2298</b>	<b>0.0332</b>		<b>622.0598</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.8 Building Modernization - 2020**

**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	0.0000	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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0256	2.3700e-003	0.0280	7.3700e-003	2.2700e-003	9.6400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0498	0.0311	0.3262	9.9000e-004	0.1118	6.8000e-004	0.1125	0.0296	6.2000e-004	0.0303		98.8236	98.8236	2.4500e-003		98.8849
<b>Total</b>	<b>0.0616</b>	<b>0.4405</b>	<b>0.4143</b>	<b>2.0000e-003</b>	<b>0.1374</b>	<b>3.0500e-003</b>	<b>0.1404</b>	<b>0.0370</b>	<b>2.8900e-003</b>	<b>0.0399</b>		<b>204.8407</b>	<b>204.8407</b>	<b>0.0116</b>		<b>205.1319</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.8 Building Modernization - 2020**

**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	0.0000	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>

**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
Vendor	0.0118	0.4094	0.0882	1.0100e-003	0.0240	2.3700e-003	0.0263	6.9700e-003	2.2700e-003	9.2400e-003		106.0171	106.0171	9.1900e-003		106.2470
Worker	0.0498	0.0311	0.3262	9.9000e-004	0.1030	6.8000e-004	0.1037	0.0275	6.2000e-004	0.0281		98.8236	98.8236	2.4500e-003		98.8849
<b>Total</b>	<b>0.0616</b>	<b>0.4405</b>	<b>0.4143</b>	<b>2.0000e-003</b>	<b>0.1270</b>	<b>3.0500e-003</b>	<b>0.1301</b>	<b>0.0345</b>	<b>2.8900e-003</b>	<b>0.0374</b>		<b>204.8407</b>	<b>204.8407</b>	<b>0.0116</b>		<b>205.1319</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.8 Building Modernization - 2021**

**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	0.0000	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>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	9.9200e-003	0.3670	0.0781	1.0000e-003	0.0256	7.3000e-004	0.0263	7.3700e-003	6.9000e-004	8.0700e-003		105.1893	105.1893	8.7100e-003		105.4071
Worker	0.0465	0.0279	0.2984	9.6000e-004	0.1118	6.6000e-004	0.1124	0.0296	6.1000e-004	0.0303		95.5194	95.5194	2.2100e-003		95.5745
<b>Total</b>	<b>0.0565</b>	<b>0.3949</b>	<b>0.3766</b>	<b>1.9600e-003</b>	<b>0.1374</b>	<b>1.3900e-003</b>	<b>0.1388</b>	<b>0.0370</b>	<b>1.3000e-003</b>	<b>0.0383</b>		<b>200.7087</b>	<b>200.7087</b>	<b>0.0109</b>		<b>200.9817</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.8 Building Modernization - 2021**

**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	0.0000	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>

**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
Vendor	9.9200e-003	0.3670	0.0781	1.0000e-003	0.0240	7.3000e-004	0.0247	6.9700e-003	6.9000e-004	7.6700e-003		105.1893	105.1893	8.7100e-003		105.4071
Worker	0.0465	0.0279	0.2984	9.6000e-004	0.1030	6.6000e-004	0.1037	0.0275	6.1000e-004	0.0281		95.5194	95.5194	2.2100e-003		95.5745
<b>Total</b>	<b>0.0565</b>	<b>0.3949</b>	<b>0.3766</b>	<b>1.9600e-003</b>	<b>0.1270</b>	<b>1.3900e-003</b>	<b>0.1284</b>	<b>0.0345</b>	<b>1.3000e-003</b>	<b>0.0358</b>		<b>200.7087</b>	<b>200.7087</b>	<b>0.0109</b>		<b>200.9817</b>



Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.9 Paving - 2021**

**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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5087</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>		<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
<b>Total</b>	<b>0.0698</b>	<b>0.0419</b>	<b>0.4476</b>	<b>1.4400e-003</b>	<b>0.1677</b>	<b>9.9000e-004</b>	<b>0.1687</b>	<b>0.0445</b>	<b>9.1000e-004</b>	<b>0.0454</b>		<b>143.2790</b>	<b>143.2790</b>	<b>3.3100e-003</b>		<b>143.3618</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.9 Paving - 2021**

**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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.4454					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.5087</b>	<b>10.6478</b>	<b>11.7756</b>	<b>0.0178</b>		<b>0.5826</b>	<b>0.5826</b>		<b>0.5371</b>	<b>0.5371</b>	<b>0.0000</b>	<b>1,709.1107</b>	<b>1,709.1107</b>	<b>0.5417</b>		<b>1,722.6524</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
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
Worker	0.0698	0.0419	0.4476	1.4400e-003	0.1546	9.9000e-004	0.1555	0.0413	9.1000e-004	0.0422		143.2790	143.2790	3.3100e-003		143.3618
<b>Total</b>	<b>0.0698</b>	<b>0.0419</b>	<b>0.4476</b>	<b>1.4400e-003</b>	<b>0.1546</b>	<b>9.9000e-004</b>	<b>0.1555</b>	<b>0.0413</b>	<b>9.1000e-004</b>	<b>0.0422</b>		<b>143.2790</b>	<b>143.2790</b>	<b>3.3100e-003</b>		<b>143.3618</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.10 Architectural Coating - 2021**

**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	36.2633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>36.4822</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	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	0.0372	0.0224	0.2387	7.7000e-004	0.0894	5.3000e-004	0.0900	0.0237	4.9000e-004	0.0242		76.4155	76.4155	1.7700e-003		76.4596
<b>Total</b>	<b>0.0372</b>	<b>0.0224</b>	<b>0.2387</b>	<b>7.7000e-004</b>	<b>0.0894</b>	<b>5.3000e-004</b>	<b>0.0900</b>	<b>0.0237</b>	<b>4.9000e-004</b>	<b>0.0242</b>		<b>76.4155</b>	<b>76.4155</b>	<b>1.7700e-003</b>		<b>76.4596</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**3.10 Architectural Coating - 2021**

**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	36.2633					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>36.4822</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</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
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
Worker	0.0372	0.0224	0.2387	7.7000e-004	0.0824	5.3000e-004	0.0830	0.0220	4.9000e-004	0.0225		76.4155	76.4155	1.7700e-003		76.4596
<b>Total</b>	<b>0.0372</b>	<b>0.0224</b>	<b>0.2387</b>	<b>7.7000e-004</b>	<b>0.0824</b>	<b>5.3000e-004</b>	<b>0.0830</b>	<b>0.0220</b>	<b>4.9000e-004</b>	<b>0.0225</b>		<b>76.4155</b>	<b>76.4155</b>	<b>1.7700e-003</b>		<b>76.4596</b>

**4.0 Operational Detail - Mobile**

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Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

**4.3 Trip Type Information**

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Elementary School	16.60	8.40	6.90	65.00	30.00	5.00	63	25	12
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Other Non-Asphalt Surfaces	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038
Parking Lot	0.542116	0.037578	0.185203	0.118503	0.016241	0.005141	0.017392	0.068695	0.001383	0.001183	0.004582	0.000945	0.001038

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

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Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.6400e-003	0.0240	0.0202	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.8041	28.8041	5.5000e-004	5.3000e-004	28.9752
NaturalGas Unmitigated	3.4700e-003	0.0315	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.8353	37.8353	7.3000e-004	6.9000e-004	38.0601

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	321.6	3.4700e-003	0.0315	0.0265	1.9000e-004		2.4000e-003	2.4000e-003		2.4000e-003	2.4000e-003		37.8353	37.8353	7.3000e-004	6.9000e-004	38.0601
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.4700e-003</b>	<b>0.0315</b>	<b>0.0265</b>	<b>1.9000e-004</b>		<b>2.4000e-003</b>	<b>2.4000e-003</b>		<b>2.4000e-003</b>	<b>2.4000e-003</b>		<b>37.8353</b>	<b>37.8353</b>	<b>7.3000e-004</b>	<b>6.9000e-004</b>	<b>38.0601</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Elementary School	0.244835	2.6400e-003	0.0240	0.0202	1.4000e-004		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		28.8041	28.8041	5.5000e-004	5.3000e-004	28.9752
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.6400e-003</b>	<b>0.0240</b>	<b>0.0202</b>	<b>1.4000e-004</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>28.8041</b>	<b>28.8041</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>28.9752</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
Unmitigated	0.3877	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.6000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
<b>Total</b>	<b>0.3877</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0219</b>	<b>0.0219</b>	<b>6.0000e-005</b>		<b>0.0233</b>

Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.6000e-004	9.0000e-005	0.0103	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0219	0.0219	6.0000e-005		0.0233
<b>Total</b>	<b>0.3877</b>	<b>9.0000e-005</b>	<b>0.0103</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>0.0219</b>	<b>0.0219</b>	<b>6.0000e-005</b>		<b>0.0233</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Longfellow ES - Construction and Operation - Riverside-South Coast County, Winter

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Regional Construction Emissions Worksheet\* - Unmitigated

\*CalEEMod, Version 2016.3.2

Demolition			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2020</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.00	0.00
	Off-Road		2.13	20.95	14.66	0.02	1.15	1.08
	Total		<b>2.13</b>	<b>20.95</b>	<b>14.66</b>	<b>0.02</b>	<b>1.15</b>	<b>1.08</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.41	0.09	0.00	0.03	0.01
	Worker		0.07	0.04	0.52	0.00	0.13	0.04
	Total		<b>0.08</b>	<b>0.45</b>	<b>0.60</b>	<b>0.00</b>	<b>0.16</b>	<b>0.05</b>
<b>TOTAL</b>			<b>2.20</b>	<b>21.40</b>	<b>15.26</b>	<b>0.03</b>	<b>1.31</b>	<b>1.12</b>

Demolition Haul			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2020</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.43	0.07
	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>0.43</b>	<b>0.07</b>
Offsite								
	Hauling		0.03	1.11	0.16	0.00	0.08	0.02
	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>0.03</b>	<b>1.11</b>	<b>0.16</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>			<b>0.03</b>	<b>1.11</b>	<b>0.16</b>	<b>0.00</b>	<b>0.51</b>	<b>0.09</b>

<b>Demolition + Demolition Haul</b>			<b>2.23</b>	<b>22.51</b>	<b>15.42</b>	<b>0.03</b>	<b>1.82</b>	<b>1.21</b>
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Site Preparation			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2020</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	0.68	0.07
	Off-Road		1.65	19.92	11.27	0.02	0.78	0.71
	Total		<b>1.65</b>	<b>19.92</b>	<b>11.27</b>	<b>0.02</b>	<b>1.46</b>	<b>0.79</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.41	0.09	0.00	0.03	0.01
	Worker		0.04	0.02	0.32	0.00	0.08	0.02
	Total		<b>0.05</b>	<b>0.44</b>	<b>0.40</b>	<b>0.00</b>	<b>0.11</b>	<b>0.03</b>
<b>TOTAL</b>			<b>1.70</b>	<b>20.36</b>	<b>11.67</b>	<b>0.03</b>	<b>1.57</b>	<b>0.82</b>

Grading			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		<b>2020</b>						
	Fugitive Dust		0.00	0.00	0.00	0.00	2.80	1.44
	Off-Road		1.92	21.34	9.94	0.02	0.99	0.91
	Total		<b>1.92</b>	<b>21.34</b>	<b>9.94</b>	<b>0.02</b>	<b>3.79</b>	<b>2.35</b>
Offsite								
	Hauling		0.00	0.00	0.00	0.00	0.00	0.00
	Vendor		0.01	0.41	0.09	0.00	0.03	0.01
	Worker		0.05	0.03	0.40	0.00	0.10	0.03
	Total		<b>0.06</b>	<b>0.44</b>	<b>0.48</b>	<b>0.00</b>	<b>0.13</b>	<b>0.04</b>
<b>TOTAL</b>			<b>1.98</b>	<b>21.78</b>	<b>10.41</b>	<b>0.02</b>	<b>3.92</b>	<b>2.39</b>

Utility Trenching			ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
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		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>						
	Off-Road	0.73	8.04	7.63	0.02	0.35	0.32
	Total	<b>0.73</b>	<b>8.04</b>	<b>7.63</b>	<b>0.02</b>	<b>0.35</b>	<b>0.32</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	0.02	0.32	0.00	0.08	0.02
	Total	<b>0.04</b>	<b>0.02</b>	<b>0.32</b>	<b>0.00</b>	<b>0.08</b>	<b>0.02</b>
<b>TOTAL</b>		<b>0.77</b>	<b>8.06</b>	<b>7.95</b>	<b>0.02</b>	<b>0.43</b>	<b>0.35</b>

<b>Building Construction</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020-2021</b>						
	Off-Road	2.29	17.43	14.90	0.03	0.95	0.91
	Total	<b>2.29</b>	<b>17.43</b>	<b>14.90</b>	<b>0.03</b>	<b>0.95</b>	<b>0.91</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.04	1.23	0.26	0.00	0.08	0.03
	Worker	0.16	0.10	1.29	0.00	0.33	0.09
	Total	<b>0.20</b>	<b>1.33</b>	<b>1.52</b>	<b>0.01</b>	<b>0.41</b>	<b>0.12</b>
<b>TOTAL</b>		<b>2.48</b>	<b>18.76</b>	<b>16.41</b>	<b>0.03</b>	<b>1.36</b>	<b>1.03</b>
<b>Building Modernization</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020-2021</b>						
	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	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.41	0.09	0.00	0.03	0.01
	Worker	0.05	0.03	0.40	0.00	0.10	0.03
	Total	<b>0.06</b>	<b>0.44</b>	<b>0.48</b>	<b>0.00</b>	<b>0.13</b>	<b>0.04</b>
<b>TOTAL</b>		<b>0.06</b>	<b>0.44</b>	<b>0.48</b>	<b>0.00</b>	<b>0.13</b>	<b>0.04</b>
<b>Building Construction + Modernization</b>		<b>2.55</b>	<b>19.21</b>	<b>16.89</b>	<b>0.03</b>	<b>1.49</b>	<b>1.06</b>
<b>Paving</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>						
	Off-Road	1.06	10.65	11.78	0.02	0.58	0.54
	Paving	0.45	0.00	0.00	0.00	0.00	0.00
	Total	1.51	10.65	11.78	0.02	0.58	0.54
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	0.07	0.04	0.55	0.00	0.16	0.04
	Total	0.07	0.04	0.55	0.00	0.16	0.04
<b>TOTAL</b>		<b>1.58</b>	<b>10.69</b>	<b>12.33</b>	<b>0.02</b>	<b>0.74</b>	<b>0.58</b>
<b>Architectural Coating</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>						
	Archit. Coating	36.26	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.22	1.53	1.82	0.00	0.09	0.09
	Total	36.48	1.53	1.82	0.00	0.09	0.09
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	0.02	0.30	0.00	0.08	0.02
	Total	0.04	0.02	0.30	0.00	0.08	0.02
<b>TOTAL</b>		<b>36.52</b>	<b>1.55</b>	<b>2.11</b>	<b>0.00</b>	<b>0.18</b>	<b>0.12</b>
<b>Building Construction + Modernization + Paving + Coating</b>		<b>40.65</b>	<b>31.45</b>	<b>31.34</b>	<b>0.06</b>	<b>2.40</b>	<b>1.76</b>
<b>MAX DAILY</b>		<b>41</b>	<b>31</b>	<b>31</b>	<b>0</b>	<b>4</b>	<b>2</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\* - Unmitigated

\*CalEEMod, Version 2016.3.2

<b>Demolition</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
		<b>2020</b>			
	Fugitive Dust	0.00	0.00	0.00	0.00
	Off-Road	20.95	14.66	1.15	1.08
	<b>Total</b>	<b>20.95</b>	<b>14.66</b>	<b>1.15</b>	<b>1.08</b>
<b>Demolition Haul</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
		<b>2020</b>			
	Fugitive Dust				
	Off-Road	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.43</b>	<b>0.07</b>
<b>Demolition + Demolition Haul</b>		<b>20.95</b>	<b>14.66</b>	<b>1.58</b>	<b>1.14</b>
<b>2.00-acres LST</b>		<b>170</b>	<b>883</b>	<b>7</b>	<b>4</b>
Exceed Threshold?		No	No	No	No

**Site Preparation**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	0.68	0.07
	Off-Road	19.92	11.27	0.78	0.71
	<b>Total</b>	<b>19.92</b>	<b>11.27</b>	<b>1.46</b>	<b>0.79</b>
<b>1.94-acres LST</b>		<b>167</b>	<b>865</b>	<b>7</b>	<b>4</b>
Exceed Threshold?		No	No	No	No

**Grading**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	2.80	1.44
	Off-Road	21.34	9.94	0.99	0.91
	<b>Total</b>	<b>21.34</b>	<b>9.94</b>	<b>3.79</b>	<b>2.35</b>
<b>1.88-acres LST</b>		<b>163</b>	<b>848</b>	<b>7</b>	<b>4</b>
Exceed Threshold?		No	No	No	No

**Utility Trenching**

		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Off-Road	8.04	7.63	0.35	0.32
	<b>Total</b>	<b>8.04</b>	<b>7.63</b>	<b>0.35</b>	<b>0.32</b>
<b>1.00-acres LST</b>		<b>118</b>	<b>602</b>	<b>4</b>	<b>3</b>
Exceed Threshold?		No	No	No	No



<b>Building Construction</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020-2021</b>				
	Off-Road	17.43	14.90	0.95	0.91
	<b>Total</b>	<b>17.43</b>	<b>14.90</b>	<b>0.95</b>	<b>0.91</b>
<b>Building Modernization</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020-2021</b>				
	Off-Road	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>Building Construction + Modernization</b>		<b>17.43</b>	<b>14.90</b>	<b>0.95</b>	<b>0.91</b>
<b>1.00-acres LST</b>		<b>118</b>	<b>602</b>	<b>4</b>	<b>3</b>
Exceed Threshold?		No	No	No	No
<b>Paving</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Off-Road	10.65	11.78	0.58	0.54
	Paving	0.00	0.00	0.00	0.00
	<b>Total</b>	<b>10.65</b>	<b>11.78</b>	<b>0.58</b>	<b>0.54</b>
<b>1.00-acres LST</b>		<b>118</b>	<b>602</b>	<b>4</b>	<b>3</b>
Exceed Threshold?		No	No	No	No
<b>Architectural Coating</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.53	1.82	0.09	0.09
	<b>Total</b>	<b>1.53</b>	<b>1.82</b>	<b>0.09</b>	<b>0.09</b>
<b>1.00-acres LST</b>		<b>118</b>	<b>602</b>	<b>4</b>	<b>3</b>
Exceed Threshold?		No	No	No	No
<b>Building Construction + Modernization + Paving + Coating</b>		<b>29.61</b>	<b>28.49</b>	<b>1.62</b>	<b>1.54</b>
<b>1.00-acres LST</b>		<b>118</b>	<b>602</b>	<b>4</b>	<b>3</b>
Exceed Threshold?		No	No	No	No

# Regional Operation Emissions Worksheet\* - Unmitigated

\*CalEEMod, Version 2016.3.2

## Proposed Project

### Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.39	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
<b>Total</b>	<b>0.39</b>	<b>0.02</b>	<b>0.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

### Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.39	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
<b>Total</b>	<b>0.39</b>	<b>0.02</b>	<b>0.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

### Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.39	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
<b>Total</b>	<b>0.39</b>	<b>0.02</b>	<b>0.03</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

### Regional Thresholds

	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

# Localized Operation Emissions Worksheet\* - Unmitigated

\*CalEEMod, Version 2016.3.2 and EMFAC2017, Version 1.0.2

## Summer

	<b>NOx</b>	<b>CO</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area	0.00	0.01	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

## Winter

	<b>NOx</b>	<b>CO</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area	0.00	0.01	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

## Max Daily

	<b>NOx</b>	<b>CO</b>	<b>PM10 Total</b>	<b>PM2.5 Total</b>
Area	0.00	0.01	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

<b>2.21-Acre-LST</b>	<b>177</b>	<b>931</b>	<b>2</b>	<b>1</b>
Exceeds Thresholds?	No	No	No	No

## GHG Emissions Inventory

### Proposed Project Buildout

#### Site Preparation

#### Construction

	<u>MTCO<sub>2</sub>e Total*</u>
2020	180
2021	194
<b>Total Construction</b>	<b>374</b>

\*CalEEMod, Version 2016.3.2.

#### Operation\*

<b>Proposed</b>			
Area	<b>0.002650</b>	MTCO <sub>2</sub> e/Year**	0.002887%
Energy	<b>62</b>	MTCO <sub>2</sub> e/Year	67%
Solid Waste	<b>9</b>	MTCO <sub>2</sub> e/Year	10%
Water	<b>9</b>	MTCO <sub>2</sub> e/Year	10%
Amortized Construction Emissions***	<b>12</b>	MTCO <sub>2</sub> e/Year	14%
<b>Total</b>	<b>92</b>	<b>MTCO<sub>2</sub>e/Year</b>	<b>100%</b>
SCAQMD Bright-Line Screening Threshold	3,000	MTCO <sub>2</sub> e/Year	
<b>Exceed Threshold?</b>	<b>No</b>		

\*CalEEMod, Version 2016.3.2.

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

\*\*\*\* Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 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).

## Appendices

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