

Unmitigated Regional Emissions during construction (tons/year)

	ROG	Nox	CO	SO2	Exh PM10	Fug PM10	PM10 Total	Exh PM2.5	Fug PM2.5	PM2.5 Total
Calcite Substation - 2026	7.88	2.19	2.62	0.01	0.07	1.98	2.06	0.07	0.26	0.33
Calcite Substation - 2027	0.03	0.20	0.30	0.00	0.01	0.88	0.89	0.01	0.09	0.10
Calcite Transmission Line Loop-in and Gen-tie - 2026	0.07	0.45	0.54	0.00	0.02	0.58	0.60	0.02	0.06	0.07
Calcite Distribution Line - 2026	0.01	0.08	0.09	0.00	0.00	0.09	0.09	0.00	0.01	0.01
Helicopter	0.06	0.03	0.07				0.00			0.00
Construction Total (if completed on 12 month (1 year) schedule)	8.06	2.94	3.63	0.01	0.10	3.53	3.64	0.09	0.42	0.52
MDAQMD Threshold (tons/year)	25	25	100	25			15			12
Exceedance?	No	No	No	No			No			No

Mitigated Regional Emissions during construction (tons/year)

	ROG	Nox	CO	SO2	Exh PM10	Fug PM10	PM10 Total	Exh PM2.5	Fug PM2.5	PM2.5 Total
Calcite Substation - 2026	7.88	2.19	2.62	0.01	0.07	1.88	1.96	0.07	0.22	0.29
Calcite Substation - 2027	0.03	0.20	0.30	0.00	0.01	0.88	0.89	0.01	0.09	0.10
Calcite Transmission Line Loop-in and Gen-tie - 2026	0.07	0.45	0.54	0.00	0.02	0.58	0.60	0.02	0.06	0.07
Calcite Distribution Line - 2026	0.01	0.08	0.09	0.00	0.00	0.09	0.09	0.00	0.01	0.01
Helicopter	0.06	0.03	0.07				0.00			0.00
Construction Total (if completed on 12 month (1 year) schedule)	8.06	2.94	3.63	0.01	0.10	3.43	3.53	0.09	0.38	0.48
MDAQMD Threshold (tons/year)	25	25	100	25			15			12
Exceedance?	No	No	No	No			No			No

Mitigation: Water 3x daily

GHG Emissions during construction (metric tons/year)

	CO2	CH4	N2O	CO2e
Calcite Substation - 2026	930.96	0.03	0.05	945.95
Calcite Substation - 2027	112.21	0.00	0.01	114.04
Calcite Transmission Line Loop-in and Gen-tie - 2026	188.96	0.01	0.00	190.13
Calcite Distribution Line - 2026	37.21	0.00	0.00	37.44
Helicopter	14.68	0.00	0.00	14.73
Construction Total (if completed on 12 month (1 year) schedule)	1284.01	0.04	0.06	1302.29

Note: GHG emissions are the same for unmitigated and mitigated because the only mitigation is for dust

Helicopter Emissions

Equipment	Engine Mode	Quantity	Hours/day	Number of days	Total Hours	Fuel Flow (Kg/s) ^a	Max Power (HP)	Load Factor ^a	Loaded Power (HP)	Fuel Usage (kg fuel)	Fuel Usage (mmBtu)
Hughes 500 E using Jet A fuel	Ground Idle	1	0.75	7	5.25	0.014	400	0.13	52	270.33	11.04
	Hover and Climb	1	0.75	7	5.25	0.032	400	0.87	348	600.95	24.55
	Approach	1	0.75	7	5.25	0.025	400	0.46	184	464.67	18.98
	Flight	1	4.75	7	33.25	0.030	400	0.8	320	3639.21	148.66
Total			7		49					4975.15	203.24

Assumptions:

7 hours per day total (provided by client) - estimated breakdown by engine mode assumed

Single engine turboshaft helicopter, engines up to 600 SHP

Notes:

^a Source: Guidance on the Determination of Helicopter Emissions Edition 2 - December 2015.

https://www.bazl.admin.ch/dam/bazl/de/dokumente/Fachleute/Regulationen_und_Grundlagen/guidance_on_the_determinationofhelicopteremissions.pdf.download.pdf/guidance_on_the_determinationofhelicopteremissions.pdf

^b GHG Emission factors from Title 40 Subchapter C Part 98 Subpart C, Table C-1 and C-2

^c CO₂e = carbon dioxide equivalent, global warming potentials for CH₄=28 and N₂O=265 per IPCC AR5

Load factor (GI is ground idle; TO is hover and climb; AP is approach; mean is flight):

Conversions:

MJ hp-hr
2.68451954 1

mmBtu MJ
1 1055.06

kg jet fuel MJ
1 43.1

grams short tons
907184.74 1

kg metric tons
1000 1

Helicopter Emissions

		Emission Factors (g/kg fuel) ^a					
Equipment	Engine Mode	VOC	CO	NOX	PM10	PM2.5	SO2
Hughes 500 E using Jet A fuel	Ground Idle	53.52	70.48	1.99	0.12	0.12	-
	Hover and Climb	6.87	8.54	5.86	0.18	0.18	-
	Approach	13.67	17.33	4.08	0.15	0.15	-
	Flight	7.52	9.38	5.59	0.18	0.18	-
Total							

Helicopter Emissions

Criteria Air Pollutant Emissions (short tons)

Equipment	Engine Mode	VOC	CO	NOX	PM10	PM2.5	SO2
Hughes 500 E using Jet A fuel	Ground Idle	0.01594734	0.02100131	0.00059329	3.5095E-05	3.5095E-05	-
	Hover and Climb	0.00454916	0.00565984	0.00388056	0.00012065	0.00012065	-
	Approach	0.00700107	0.00887796	0.00208969	7.5559E-05	7.5559E-05	-
	Flight	0.03016124	0.0376194	0.02240707	0.00070768	0.00070768	-
Total		0.06	0.07	0.03	0.00	0.00	-

Helicopter Emissions

		Emission Factors (kg/mmBtu) ^b			GHG Emissions (metric tons)			
Equipment	Engine Mode	CO2	CH4	N2O	CO2	CH4	N2O	CO2e ^c
Hughes 500 E using Jet A fuel	Ground Idle	72.22	0.003	0.0006	0.79753013	3.3129E-05	6.6258E-06	0.80021359
	Hover and Climb	72.22	0.003	0.0006	1.77294051	7.3647E-05	1.4729E-05	1.77890596
	Approach	72.22	0.003	0.0006	1.37087575	5.6946E-05	1.1389E-05	1.37548836
	Flight	72.22	0.003	0.0006	10.7365633	0.00044599	8.9199E-05	10.7726888
Total					14.68	0.00	0.00	14.73

CalEEMod Input Template - Sienna Solar, recalculation for Calcite Substation

Project Name: Sienna Solar
 Project Location: Mojave Desert AQMD (and Mojave Desert Air Basin)
 Land Use Setting: Rural Near Lucerne Valley, San Bernardino County (Unincorporated)
 Electric Utility: Southern California Edison
 Operational Year: 2028
 Project Center Point 34.54707748621878, -116.94960633478249
Land Use

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	SF	
Parking	Other Asphalt Surfaces	16	Acre	16		Construct 220 kV Substation and Access Road - see Table SCE-2
Parking	Other Non-Asphalt Surfaces	35	Acre	35		Construct 220kV Transmission Loop-in and SCE Portion of Gen-tie- see Table SCE-4
Parking	Other Non-Asphalt Surfaces	2.132	Acre	2.132		Construct Distribution Line Extension for Station Light & Power to Calcite Station- see Table SCE_6A

Construction Schedule

Notes: 12 month schedule (conservative, could be up to 24 months), use annual emission thresholds

											defaults
Construction Phase Name	Phase Type	Start Date	End Date	# Days/Week	Total Days	# one-way worker trips/day	# one-way vendor trips/day	# Total One-way haul trips	Worker Trip Length	Vendor Trip Length	Haul Trip Length
<i>Construct 220 kV Substation and Access Road - February 2026 to June 2027</i>											
Survey (1)	Site Preparation	2/9/2026	2/20/2026	6	10	8	8		18.5	10.2	20
Grading (2)	Grading	2/21/2026	4/9/2026	6	40	20	8	181.25	18.5	10.2	20
Fencing (3)	Building Construction	4/10/2026	5/9/2026	6	25	10	8		18.5	10.2	20
Civil (4)	Building Construction	5/10/2026	7/18/2026	6	60	20	11	3	18.5	10.2	20
MEER Install (Drop In) (5)	Building Construction	7/19/2026	8/17/2026	6	25	14	10		18.5	10.2	20
Electrical (6)	Building Construction	8/18/2026	11/6/2026	6	70	20	10		18.5	10.2	20
Wiring (7)	Building Construction	11/7/2026	1/21/2027	6	65	8	6		18.5	10.2	20
Maintenance Crew (8)	Building Construction	1/22/2027	2/25/2027	6	30	4	4		18.5	10.2	20
Testing (9)	Building Construction	2/26/2027	5/6/2027	6	60	8	8		18.5	10.2	20
Asphalt (10)	Paving	5/7/2027	6/22/2027	6	40	12	44		18.5	10.2	20
<i>Construct 220 kV Transmission Line Loop-in and Gen-tie - April 2026 to November 2026</i>											
Survey (1)	Site Preparation	4/6/2026	4/9/2026	6	4	8	8		18.5	10.2	20
Staging/Material Yards (2) (not modeled)		4/22/2026	7/1/2026	6	61	8 per yard					
Road Work & Structure Pads (3)	Building Construction	4/10/2026	4/21/2026	6	10	10	6		18.5	10.2	20
Guard Structure Installation (4)	Building Construction	4/22/2026	4/23/2026	6	2	12	8		18.5	10.2	20
Conductor & GW Removal (5)	Building Construction	4/24/2026	4/28/2026	6	4	28	12		18.5	10.2	20
LST Removal (6)	Building Construction	4/29/2026	5/2/2026	6	4	12	8		18.5	10.2	20
LST Foundation Removal (7)	Building Construction	5/3/2026	5/5/2026	6	2	8	8		18.5	10.2	20
Steel Pole Structure Foundation Installation (8)	Building Construction	5/6/2026	5/22/2026	6	15	12	8		18.5	10.2	20
Steel Pole Structure Haul (9)	Building Construction	5/23/2026	5/26/2026	6	3	8	6		18.5	10.2	20
Steel Pole Structure Assembly (10)	Building Construction	5/27/2026	6/4/2026	6	8	12	8		18.5	10.2	20
Steel Pole Structure Erection (11)	Building Construction	6/5/2026	6/13/2026	6	8	12	8		18.5	10.2	20
220kV Conductor & GW Installation (12)	Building Construction	6/14/2026	6/22/2026	6	7	56	22		18.5	10.2	20
UG Ground Wire Installation (13)	Building Construction	6/23/2026	6/29/2026	6	6	8	6		18.5	10.2	20
Guard Structure Removal (14)	Building Construction	6/30/2026	7/1/2026	6	2	12	8		18.5	10.2	20
Restoration (15)	Architectural Coating	7/2/2026	7/8/2026	6	6	14	8		18.5	10.2	20
<i>Construct Distribution Line Extension for Station Light & Power to Calcite Station - April 2026 -November 2026</i>											
Install Down Guys (1)	Building Construction	4/6/2026	4/7/2026	6	2	6	6		18.5	10.2	20
Install New Poles (2)	Building Construction	4/8/2026	4/14/2026	6	6	8	8		18.5	10.2	20
Install Overhead Wire (3)	Building Construction	4/15/2026	4/15/2026	6	1	12	6		18.5	10.2	20
Underground Cable Pulling & Transformer Installation (4)	Building Construction	4/16/2026	4/18/2026	6	3	8	6		18.5	10.2	20
Underground Cable Makeup (5)	Building Construction	4/19/2026	4/21/2026	6	2	8	6		18.5	10.2	20
Underground Trenching, Structure Excavation Conduit (6)	Building Construction	4/22/2026	4/28/2026	6	6	8	6		18.5	10.2	20
Underground Boring, Casing and Conduit Installation (7)	Building Construction	4/29/2026	5/1/2026	6	3	12	6		18.5	10.2	20
Restoration (8)	Architectural Coating	5/2/2026	5/2/2026	6	1	8	8		18.5	10.2	20

Notes:

Mitigation - water control measures: MDAQMD Rule 403 and the San Bernardino County Development Code Section 84.29.035 - water 3x day
 Construction would occur Monday to Saturday, 6 days a week
 There would be potential for nighttime and Sunday work.
 Worker, vendor, and haul trip lengths are default.
 Assume trips are on paved roads.
 Additional 4 vendor trips for misc. added for buffer
 Assume on site truck travel equal to vendor one way trips shown on Equipment tab (not including additional misc. trucks) and for 2 mi
 Staging/Material Yards phase is only used for locations/phases requiring overhead construction where components would be trucked to staging yard before going to the individual sites

List of Construction Equipment

Equipment Name	CalEEMod Equipment Name	Count	HP	Days	Hrs/day	Load Factor	Fuel type	Notes	Avg # hours across phase duration
Table SCE-3 Calcite Substation - Construct 220 kV Substation and Access Road									
Survey (1)									
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	10	8	0.38	Gas	Vendor	
Grading (2)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	40	8	0.38	Gas	Vendor	
Dozer	Rubber Tired Dozers	1	350	40	7	0.4	Diesel		
Loader	Rubber Tired Loaders	2	350	40	7	0.36	Diesel		
Scraper	Scrapers	2	350	40	7	0.48	Diesel		
Grader	Graders	1	350	40	7	0.41	Diesel		
Dump Truck	Off-Highway Trucks	2	350	40	7	0.38	Diesel		
Backhoe	Tractors/Loaders/Backhoes	2	200	40	7	0.37	Diesel		
Tamper	Surfacing Equipment	1	350	35	7	0.3	Diesel		
Tool Truck	Off-Highway Trucks	1	300	40	7	0.38	Gas	Vendor	6.13
Utility Cart	Other General Industrial Equipment	2	50	40	7	0.34	Diesel		
Water Truck	Off-Highway Trucks	3	300	40	8	0.38	Diesel		
Fencing (3)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	25	8	0.38	Gas	Vendor	
Bobcat	Tractors/Loaders/Backhoes	1	200	25	8	0.37	Diesel		
Flatbed Truck	Off-Highway Trucks	1	300	15	3	0.38	Gas	Vendor	1.80
Utility Cart	Other General Industrial Equipment	1	50	25	7	0.34	Diesel		
Water Truck	Off-Highway Trucks	1	300	25	8	0.38	Diesel		
Civil (4)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	60	8	0.38	Gas	Vendor	
Excavator	Excavators	1	60	45	4	0.38	Diesel		3.00
Lo-Drill/Auger	Bore/Drill Rigs	1	350	30	4	0.5	Diesel		2.00
Backhoe	Tractors/Loaders/Backhoes	2	200	60	7	0.37	Diesel		
Bobcat	Tractors/Loaders/Backhoes	1	200	60	8	0.37	Diesel		
Dump Truck	Off-Highway Trucks	2	350	50	7	0.38	Diesel		5.83
Skip Loader	Tractors/Loaders/Backhoes	1	350	60	8	0.37	Diesel		
Forklift	Forklifts	1	200	45	4	0.2	Diesel		3.00
Concrete Truck	Off-Highway Trucks	2	300	30	4	0.38	Diesel		2.00
Generator	Generator Sets	2	50	60	7	0.74	Diesel	Noted as gas/diesel. Assumed diesel.	
Tool Truck	Off-Highway Trucks	1	300	60	7	0.38	Gas	Vendor	
Utility Cart	Other General Industrial Equipment	2	50	60	7	0.34	Diesel		
Water Truck	Off-Highway Trucks	2	300	60	8	0.38	Diesel		
MEER Install (Drop In)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	25	8	0.38	Gas	Vendor	
Manlift/Bucket Truck	Off-Highway Trucks	2	150	20	7	0.38	Diesel		5.60
Stake Truck	Off-Highway Trucks	1	350	20	3	0.38	Gas	Vendor	2.40
Crane	Cranes	1	350	15	4	0.29	Diesel		2.40
Forklift	Forklifts	1	250	25	4	0.2	Diesel		
Tool Truck	Off-Highway Trucks	1	300	25	7	0.38	Gas	Vendor	
Electrical (6)									
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	3	8	0.38	Gas	Vendor	0.34
Scissor Lift	Aerial Lifts	1	60	70	7	0.31	Diesel		
Manlift/Bucket Truck	Off-Highway Trucks	2	150	60	7	0.38	Diesel		6.00
Reach Manlift	Aerial Lifts	1	250	45	7	0.31	Diesel		4.50
Crane	Cranes	1	400	20	4	0.29	Diesel		1.14
Forklift	Forklifts	1	250	70	4	0.2	Diesel		
Generator	Generator Sets	1	50	70	7	0.68	Gas		
Utility Cart	Other General Industrial Equipment	2	50	70	7	0.34	Diesel		
Tool Truck	Off-Highway Trucks	1	300	70	7	0.38	Gas	Vendor	
Wiring (7)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	65	8	0.38	Gas	Vendor	
Manlift/Bucket Truck	Off-Highway Trucks	1	150	25	4	0.38	Diesel		1.54
Utility Cart	Other General Industrial Equipment	1	50	65	7	0.34	Diesel		
Maintenance Crew (8)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	30	8	0.38	Gas	Vendor	
Testing (9)									
Test Truck	Off-Highway Trucks	2	300	60	8	0.38	Gas	Vendor	
Asphalt (10)									
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	40	4	0.38	Gas	Vendor	
Stake Truck	Off-Highway Trucks	1	350	30	4	0.38	Gas	Vendor	3.00
Dump Truck	Off-Highway Trucks	1	350	35	7	0.38	Diesel		6.13
Asphalt Paver	Pavers	1	350	35	7	0.42	Diesel		6.13
Tractor	Tractors/Loaders/Backhoes	1	350	40	4	0.37	Diesel		
Paving Roller	Rollers	2	150	40	6	0.38	Diesel		
Asphalt Curb Machine	Paving Equipment	1	50	30	4	0.36	Diesel		3.00
Utility Cart	Other General Industrial Equipment	1	50	40	7	0.34	Diesel		
Table SCE-5 Calcite Substation - Construct 220 kV Transmission Line Loop-in and Gen-tie									
Survey (1)									
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	4	8	0.38	Gas	Vendor	
Road Work & Structure Pads (3)									
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	10	8	0.38	Gas	Vendor	
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	125	10	4	0.37	Diesel		
Tracked Dozer	Rubber Tired Dozers	1	150	10	8	0.4	Diesel		
Motor Grader	Graders	1	250	10	8	0.41	Diesel		
Water Truck	Off-Highway Trucks	2	300	10	8	0.38	Diesel		
Drum Compactor	Surfacing Equipment	1	100	10	4	0.3	Diesel		
Excavator	Excavators	1	250	3	4	0.38	Diesel		1.20
Lowboy Truck/Trailer	Off-Highway Trucks	1	450	10	2	0.38	Diesel		
Guard Structure Installation (4)									
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	2	8	0.38	Gas	Vendor	
Compressor Trailer	Air Compressors	1	60	2	4	0.48	Diesel		
Manlift/Bucket Truck	Off-Highway Trucks	1	250	2	4	0.38	Diesel		
Boom/Crane Truck	Off-Highway Trucks	1	350	2	8	0.38	Diesel		
Auger Truck	Off-Highway Trucks	1	210	2	4	0.38	Diesel		
Flatbed Truck	Off-Highway Trucks	1	400	2	8	0.38	Diesel		

Conductor & GW Removal (5)								
1-Ton Truck, 4x4	Off-Highway Trucks	4	300	4	4	0.38	Gas	Vendor
Manlift/Bucket Truck	Off-Highway Trucks	2	250	4	8	0.38	Diesel	
Boom/Crane Truck	Off-Highway Trucks	2	350	4	8	0.38	Diesel	
Puller	Other Material Handling Equipment	1	350	4	8	0.4	Diesel	
Static Truck/Tensioner	Off-Highway Trucks	1	350	4	8	0.38	Diesel	
Dump/Stake Bed Truck	Off-Highway Trucks	1	350	4	8	0.38	Diesel	
LST Removal (6)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	4	4	0.38	Gas	Vendor
Compressor Trailer	Air Compressors	1	60	4	8	0.48	Diesel	
R/T Crane (L)	Cranes	1	275	4	8	0.29	Diesel	
Dump Truck	Off-Highway Trucks	1	350	4	8	0.38	Diesel	
Flatbed Truck	Off-Highway Trucks	1	400	4	2	0.38	Diesel	
LST Foundation Removal (7)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	2	4	0.38	Gas	Vendor
Compressor Trailer	Air Compressors	1	60	2	8	0.48	Diesel	
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	125	2	8	0.37	Diesel	
Dump Truck	Off-Highway Trucks	1	350	2	8	0.38	Diesel	
Excavator	Excavators	1	250	2	2	0.38	Diesel	
Steel Pole Structure Foundation Installation (8)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	15	4	0.38	Gas	Vendor
Boom/Crane Truck	Off-Highway Trucks	1	350	15	4	0.38	Diesel	
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	125	15	8	0.37	Diesel	
Drill Rig	Bore/Drill Rigs	1	275	10	8	0.5	Diesel	
Water Truck	Off-Highway Trucks	1	300	15	8	0.38	Diesel	5.33
Dump Truck	Off-Highway Trucks	1	350	15	8	0.38	Diesel	
Concrete Truck	Off-Highway Trucks	3	350	8	6	0.38	Diesel	3.20
Steel Pole Structure Haul (9)								
1-Ton Truck, 4x4	Off-Highway Trucks	1	300	3	8	0.38	Gas	Vendor
Boom/Crane Truck	Off-Highway Trucks	1	350	3	4	0.38	Diesel	
Flatbed Truck	Off-Highway Trucks	1	400	3	8	0.38	Diesel	
Steel Pole Structure Assembly (10)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	8	4	0.38	Gas	Vendor
Compressor Trailer	Air Compressors	1	60	8	8	0.48	Diesel	
Manlift/Bucket Truck	Off-Highway Trucks	1	250	8	8	0.38	Diesel	
R/T Crane (L)	Cranes	1	275	8	8	0.29	Diesel	
Steel Pole Structure Erection (11)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	8	4	0.38	Gas	Vendor
Compressor Trailer	Air Compressors	1	60	8	4	0.48	Diesel	
Manlift/Bucket Truck	Off-Highway Trucks	1	250	8	8	0.38	Diesel	
Crane	Cranes	1	400	8	8	0.29	Diesel	
220kV Conductor & GW Installation (12)								
1-Ton Truck, 4x4	Off-Highway Trucks	8	275	7	4	0.38	Gas	Vendor
Manlift/Bucket Truck	Off-Highway Trucks	4	250	7	8	0.38	Diesel	
Boom/Crane Truck	Off-Highway Trucks	2	350	7	8	0.38	Diesel	
R/T Crane (L)	Cranes	2	215	7	4	0.29	Diesel	
Dump Truck	Off-Highway Trucks	1	350	7	4	0.38	Diesel	
Wire Truck/Trailer	Off-Highway Trucks	2	350	7	8	0.38	Diesel	
Sock Line Puller	Other Material Handling Equipment	1	300	3	8	0.4	Diesel	3.43
Bullwheel Puller	Other Material Handling Equipment	1	350	5	8	0.4	Diesel	5.71
Static Truck/Tensioner	Off-Highway Trucks	1	350	7	8	0.38	Diesel	
R/T Forklift	Forklifts	1	125	7	8	0.2	Diesel	
Spacing Cart	Other General Industrial Equipment	3	10	2	8	0.34	Diesel	
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	125	5	4	0.37	Diesel	2.29
Sag Cat w/ Winches	Crawler Tractors	2	350	7	2	0.43	Diesel	2.86
Water Truck	Off-Highway Trucks	1	300	7	8	0.38	Diesel	
Lowboy Truck/Trailer	Off-Highway Trucks	2	450	7	2	0.38	Diesel	
Hughes 500 E		1	400	7	7		Jet A	Calculated separately (outside CalEEMod)
Fuel, Helicopter Support Truck	Off-Highway Trucks	1	300	7	7	0.38	Diesel	
UG Ground Wire Installation (13)								
1-Ton Truck, 4x4	Off-Highway Trucks	1	275	6	4	0.38	Gas	Vendor
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	125	6	8	0.37	Diesel	
Dump Truck	Off-Highway Trucks	1	350	6	8	0.38	Diesel	
Water Truck	Off-Highway Trucks	1	300	6	8	0.38	Diesel	
Guard Structure Removal (14)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	2	8	0.38	Gas	Vendor
Compressor Trailer	Air Compressors	1	60	2	4	0.48	Diesel	
Manlift/Bucket Truck	Off-Highway Trucks	1	250	2	4	0.38	Diesel	
Boom/Crane Truck	Off-Highway Trucks	1	350	2	8	0.38	Diesel	
Flatbed Truck	Off-Highway Trucks	1	400	2	8	0.38	Diesel	
Restoration (15)								
1-Ton Truck, 4x4	Off-Highway Trucks	2	300	6	4	0.38	Gas	Vendor
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	125	6	8	0.37	Diesel	
Motor Grader	Graders	1	250	6	4	0.41	Diesel	
Water Truck	Off-Highway Trucks	1	300	6	8	0.38	Diesel	
Drum Compactor	Surfacing Equipment	1	100	6	4	0.3	Diesel	
Lowboy Truck/Trailer	Off-Highway Trucks	1	450	6	2	0.38	Diesel	

Table SCE-6A Calcite Substation - Construct Distribution Line Extension for Station Light & Power to Calcite Station							
Install Down Guys (1)							
1-Ton Crew Cab Flatbed, 4x4	Off-Highway Trucks	1	300	2	8	0.38	Diesel
Bucket Truck	Off-Highway Trucks	1	300	2	8	0.38	Diesel
Install New Poles (2)							
1-Ton Pickup Truck, 4x4	Off-Highway Trucks	2	300	6	8	0.38	Diesel
30-Ton Crane Truck	Off-Highway Trucks	1	300	6	8	0.38	Diesel
Bucket Truck	Off-Highway Trucks	2	300	6	8	0.38	Diesel
40' Flatbed Truck/Trailer	Off-Highway Trucks	1	350	6	8	0.38	Diesel
Install Overhead Wire (3)							
1-Ton Crew Cab Pickup Truck, 4x4	Off-Highway Trucks	1	300	1	8	0.38	Diesel
55' Double Bucket Truck	Off-Highway Trucks	1	350	1	8	0.38	Diesel
Underground Cable Pulling & Transformer Installation (4)							
1-Ton Pickup Truck, 4x4	Off-Highway Trucks	1	300	3	8	0.38	Diesel
55' Double Bucket Truck	Off-Highway Trucks	1	350	3	8	0.38	Diesel
Hydraulic Rewind Puller	Other Material Handling Equipment	1	300	3	8	0.4	Diesel
Underground Cable Makeup (5)							
1-Ton Crew Cab, 4x4	Off-Highway Trucks	1	300	2	8	0.38	Diesel
55' Double Bucket Truck	Off-Highway Trucks	1	350	2	8	0.38	Diesel
Underground Trenching, Structure Excavation Conduit (6)							
1-Ton Pickup Truck, 4x4	Off-Highway Trucks	1	300	6	8	0.38	Diesel
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	200	6	8	0.37	Diesel
1-Ton Crew Cab Flatbed, 4x4	Off-Highway Trucks	1	300	6	8	0.38	Diesel
4000 gallon Water Truck	Off-Highway Trucks	1	350	6	8	0.38	Diesel
Concrete Truck	Off-Highway Trucks	1	350	6	8	0.38	Diesel
Underground Boring, Casing and Conduit Installation (7)							
1-Ton Pickup Truck, 4x4	Off-Highway Trucks	1	300	3	8	0.38	Diesel
Backhoe/Front Loader	Tractors/Loaders/Backhoes	1	200	3	8	0.37	Diesel
1-Ton Crew Cab Flatbed, 4x4	Off-Highway Trucks	1	300	3	8	0.38	Diesel
Excavation and Boring Equipment	Other General Industrial Equipment	1	300	3	8	0.34	Diesel
Restoration (8)							
1-Ton Crew Cab, 4x4	Off-Highway Trucks	2	300	1	2	0.38	Diesel
Water Truck	Off-Highway Trucks	1	300	1	8	0.38	Diesel

Calcite Substation - Construct 220 kV Substation and Access Road

Grading (2) - balanced on site

Hauling

Site Fill, Replacement Fill (import)	55000 CY
Waste removal (export)	3000 CY
Total material movement (assumed not balanced on site)	58000 CY
Size of truck	16 CY/truck
Number of trucks	3625 trucks
Number of one-way haul truck trips	7250 one-way trips
Grading phase	40 days
Number of one-way truck trips per grading phase day	181.25

Civil (4)

Vendor

Concrete (foundations)	850 CY
Concrete (cable trenches)	25 CY
Size of truck	10 CY/truck
Number of trucks	88 trucks
Number of one-way truck trips	176 trips
Civil phase	60 days
Number of one-way truck trips per civil phase day	3

Hauling

Trench excavations (export)	1200 CY
Total material movement (assumed not balanced on site)	1200 CY
Size of truck	16 CY/truck
Number of trucks	75 trucks
Number of one-way truck trips	150 one-way trips
Civil phase	61 days
Number of one-way truck trips per civil phase day	3

Asphalt (10)

Vendor

Asphalt concrete and base (driveway and road)	3500 CY
Rock	3200 CY
Size of truck	10 CY/truck
Number of trucks	670 trucks
Number of one-way truck trips	1340 one-way trips
Asphalt phase	40 days
Number of one-way truck trips per asphalt phase day	34

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Calcite Substation
Construction Start Date	2/9/2026
Lead Agency	SCE
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	12.4
Location	34.54707748621878, -116.94960633478249
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5160
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southwest Gas Corp.
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Asphalt Surfaces	16.0	Acre	16.0	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	219	219	55.1	43.8	0.22	1.82	23.6	25.5	1.70	5.32	7.02	—	27,373	27,373	0.62	2.07	26.8	28,033
Mit.	219	219	55.1	43.8	0.22	1.82	18.6	20.4	1.70	3.35	5.05	—	27,373	27,373	0.62	2.07	26.8	28,033
% Reduced	—	—	—	—	—	—	21%	20%	—	37%	28%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	219	219	55.9	43.4	0.22	1.82	23.6	25.5	1.70	5.32	7.02	—	27,353	27,353	0.61	2.07	0.69	27,986
Mit.	219	219	55.9	43.4	0.22	1.82	18.6	20.4	1.70	3.35	5.05	—	27,353	27,353	0.61	2.07	0.69	27,986
% Reduced	—	—	—	—	—	—	21%	20%	—	37%	28%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	43.5	43.2	12.0	14.4	0.05	0.41	10.9	11.3	0.38	1.44	1.81	—	5,623	5,623	0.16	0.28	1.73	5,714
Mit.	43.5	43.2	12.0	14.4	0.05	0.41	10.3	10.7	0.38	1.22	1.60	—	5,623	5,623	0.16	0.28	1.73	5,714
% Reduced	—	—	—	—	—	—	5%	5%	—	15%	12%	—	—	—	—	—	—	—

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.93	7.88	2.19	2.62	0.01	0.07	1.98	2.06	0.07	0.26	0.33	—	931	931	0.03	0.05	0.29	946
Mit.	7.93	7.88	2.19	2.62	0.01	0.07	1.88	1.96	0.07	0.22	0.29	—	931	931	0.03	0.05	0.29	946
% Reduced	—	—	—	—	—	—	5%	5%	—	15%	12%	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	100	25.0	15.0	—	—	12.0	—	—	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	No	—	—	No	—	—	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	No	—	—	No	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	219	219	55.1	43.8	0.22	1.82	23.6	25.5	1.70	5.32	7.02	—	27,373	27,373	0.62	2.07	26.8	28,033
2027	1.32	1.56	8.39	12.8	0.04	0.33	18.2	18.5	0.31	1.90	2.21	—	5,162	5,162	0.15	0.22	3.70	5,235
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	219	219	55.9	43.4	0.22	1.82	23.6	25.5	1.70	5.32	7.02	—	27,353	27,353	0.61	2.07	0.69	27,986
2027	0.23	0.19	1.32	3.12	0.01	0.05	11.9	12.0	0.04	1.22	1.22	—	704	704	0.02	0.04	0.02	714
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	43.5	43.2	12.0	14.4	0.05	0.41	10.9	11.3	0.38	1.44	1.81	—	5,623	5,623	0.16	0.28	1.73	5,714
2027	0.17	0.19	1.07	1.65	0.01	0.04	4.82	4.86	0.04	0.50	0.53	—	678	678	0.02	0.03	0.28	689

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.93	7.88	2.19	2.62	0.01	0.07	1.98	2.06	0.07	0.26	0.33	—	931	931	0.03	0.05	0.29	946
2027	0.03	0.03	0.20	0.30	< 0.005	0.01	0.88	0.89	0.01	0.09	0.10	—	112	112	< 0.005	0.01	0.05	114

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	219	219	55.1	43.8	0.22	1.82	18.6	20.4	1.70	3.35	5.05	—	27,373	27,373	0.62	2.07	26.8	28,033
2027	1.32	1.56	8.39	12.8	0.04	0.33	18.2	18.5	0.31	1.90	2.21	—	5,162	5,162	0.15	0.22	3.70	5,235
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	219	219	55.9	43.4	0.22	1.82	18.6	20.4	1.70	3.35	5.05	—	27,353	27,353	0.61	2.07	0.69	27,986
2027	0.23	0.19	1.32	3.12	0.01	0.05	11.9	12.0	0.04	1.22	1.22	—	704	704	0.02	0.04	0.02	714
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	43.5	43.2	12.0	14.4	0.05	0.41	10.3	10.7	0.38	1.22	1.60	—	5,623	5,623	0.16	0.28	1.73	5,714
2027	0.17	0.19	1.07	1.65	0.01	0.04	4.82	4.86	0.04	0.50	0.53	—	678	678	0.02	0.03	0.28	689
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	7.93	7.88	2.19	2.62	0.01	0.07	1.88	1.96	0.07	0.22	0.29	—	931	931	0.03	0.05	0.29	946
2027	0.03	0.03	0.20	0.30	< 0.005	0.01	0.88	0.89	0.01	0.09	0.10	—	112	112	< 0.005	0.01	0.05	114

Calcite Transmission Line Loop-in and Gen-tie Custom Report

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2.3. Construction Emissions by Year, Mitigated

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Calcite Transmission Line Loop-in and Gen-tie
Construction Start Date	4/6/2026
Lead Agency	SCE
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	12.4
Location	34.54707748621878, -116.94960633478249
County	San Bernardino-Mojave Desert
City	—
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5160
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southwest Gas Corp.
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	35.0	Acre	35.0	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.86	5.79	35.2	43.6	0.16	1.27	53.9	55.2	1.17	5.51	6.68	—	17,843	17,843	0.70	0.27	4.56	17,945
Mit.	6.86	5.79	35.2	43.6	0.16	1.27	53.9	55.2	1.17	5.51	6.68	—	17,843	17,843	0.70	0.27	4.56	17,945
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.45	0.38	2.48	2.95	0.01	0.09	3.18	3.27	0.08	0.33	0.41	—	1,141	1,141	0.04	0.02	0.14	1,148
Mit.	0.45	0.38	2.48	2.95	0.01	0.09	3.18	3.27	0.08	0.33	0.41	—	1,141	1,141	0.04	0.02	0.14	1,148
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.45	0.54	< 0.005	0.02	0.58	0.60	0.02	0.06	0.07	—	189	189	0.01	< 0.005	0.02	190
Mit.	0.08	0.07	0.45	0.54	< 0.005	0.02	0.58	0.60	0.02	0.06	0.07	—	189	189	0.01	< 0.005	0.02	190
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	100	25.0	—	—	15.0	—	—	12.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.86	5.79	35.2	43.6	0.16	1.27	53.9	55.2	1.17	5.51	6.68	—	17,843	17,843	0.70	0.27	4.56	17,945
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.45	0.38	2.48	2.95	0.01	0.09	3.18	3.27	0.08	0.33	0.41	—	1,141	1,141	0.04	0.02	0.14	1,148
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.07	0.45	0.54	< 0.005	0.02	0.58	0.60	0.02	0.06	0.07	—	189	189	0.01	< 0.005	0.02	190

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.86	5.79	35.2	43.6	0.16	1.27	53.9	55.2	1.17	5.51	6.68	—	17,843	17,843	0.70	0.27	4.56	17,945

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.45	0.38	2.48	2.95	0.01	0.09	3.18	3.27	0.08	0.33	0.41	—	1,141	1,141	0.04	0.02	0.14	1,148
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.07	0.45	0.54	< 0.005	0.02	0.58	0.60	0.02	0.06	0.07	—	189	189	0.01	< 0.005	0.02	190

Calcite Distribution Line Extension Custom Report

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1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.3. Construction Emissions by Year, Mitigated

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Calcite Distribution Line Extension
Construction Start Date	4/6/2026
Lead Agency	SCE
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00
Precipitation (days)	12.4
Location	34.54707748621878, -116.94960633478249
County	San Bernardino-Mojave Desert
City	Unincorporated
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5160
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southwest Gas Corp.
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Other Non-Asphalt Surfaces	2.13	Acre	2.13	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-10-A	Water Exposed Surfaces

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.81	1.53	8.85	10.7	0.04	0.31	11.9	12.3	0.28	1.22	1.50	—	4,832	4,832	0.19	0.08	1.07	4,861
Mit.	1.81	1.53	8.85	10.7	0.04	0.31	11.9	12.3	0.28	1.22	1.50	—	4,832	4,832	0.19	0.08	1.07	4,861
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.08	0.07	0.41	0.49	< 0.005	0.01	0.49	0.51	0.01	0.05	0.06	—	225	225	0.01	< 0.005	0.03	226
Mit.	0.08	0.07	0.41	0.49	< 0.005	0.01	0.49	0.51	0.01	0.05	0.06	—	225	225	0.01	< 0.005	0.03	226
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.01	0.01	0.08	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	37.2	37.2	< 0.005	< 0.005	< 0.005	37.4
Mit.	0.01	0.01	0.08	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	37.2	37.2	< 0.005	< 0.005	< 0.005	37.4
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	100	25.0	—	—	15.0	—	—	12.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.81	1.53	8.85	10.7	0.04	0.31	11.9	12.3	0.28	1.22	1.50	—	4,832	4,832	0.19	0.08	1.07	4,861
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.07	0.41	0.49	< 0.005	0.01	0.49	0.51	0.01	0.05	0.06	—	225	225	0.01	< 0.005	0.03	226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.08	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	37.2	37.2	< 0.005	< 0.005	< 0.005	37.4

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.81	1.53	8.85	10.7	0.04	0.31	11.9	12.3	0.28	1.22	1.50	—	4,832	4,832	0.19	0.08	1.07	4,861

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.08	0.07	0.41	0.49	< 0.005	0.01	0.49	0.51	0.01	0.05	0.06	—	225	225	0.01	< 0.005	0.03	226
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.01	0.01	0.08	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.01	0.01	—	37.2	37.2	< 0.005	< 0.005	< 0.005	37.4