

Staten Island Summary Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Staten Island
Construction Start Date	5/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.70000
Precipitation (days)	34.0000
Location	38.14457228684094, -121.55508746367138
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2118
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.44

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
User Defined Linear	4.00000	Mile	0.00000	0.00000	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-10-A	Water Exposed Surfaces
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads

* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

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.	5.83557	4.37403	65.4823	39.0358	0.30017	1.87514	173.961	175.836	1.77569	24.4370	26.2127	—	41,187.9	41,187.9	0.85104	5.00565	71.9699	42,772.9
Mit.	5.83557	4.37403	65.4823	39.0358	0.30017	1.87514	164.917	166.793	1.77569	20.1875	21.9632	—	41,187.9	41,187.9	0.85104	5.00565	71.9699	42,772.9
% Reduced	—	—	—	—	—	—	5%	5%	—	17%	16%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.78683	4.34479	67.8718	38.5023	0.30017	1.87514	173.961	175.836	1.77569	24.4370	26.2127	—	41,154.0	41,154.0	0.84621	5.00604	1.86380	42,668.8
Mit.	5.78683	4.34479	67.8718	38.5023	0.30017	1.87514	164.917	166.793	1.77569	20.1875	21.9632	—	41,154.0	41,154.0	0.84621	5.00604	1.86380	42,668.8
% Reduced	—	—	—	—	—	—	5%	5%	—	17%	16%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.84484	1.38655	21.3168	12.2571	0.09540	0.59594	50.7992	51.3952	0.56433	7.31110	7.87542	—	13,080.4	13,080.4	0.27059	1.59096	9.87238	13,571.1

Mit.	1.84484	1.38655	21.3168	12.2571	0.09540	0.59594	47.9250	48.5210	0.56433	5.96058	6.52490	—	13,080.4	13,080.4	0.27059	1.59096	9.87238	13,571.1
% Reduced	—	—	—	—	—	—	6%	6%	—	18%	17%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33668	0.25305	3.89031	2.23692	0.01741	0.10876	9.27086	9.37962	0.10299	1.33428	1.43726	—	2,165.60	2,165.60	0.04480	0.26340	1.63449	2,246.85
Mit.	0.33668	0.25305	3.89031	2.23692	0.01741	0.10876	8.74632	8.85507	0.10299	1.08780	1.19079	—	2,165.60	2,165.60	0.04480	0.26340	1.63449	2,246.85
% Reduced	—	—	—	—	—	—	6%	6%	—	18%	17%	—	—	—	—	—	—	—

6. Climate Risk Detailed Report

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
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Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

7. Health and Equity Details

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0000
Healthy Places Index Score for Project Location (b)	39.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

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3.2.1. Onsite - Unmitigated

3.2.2. Offsite - Unmitigated

3.2.3. Onsite - Mitigated

3.2.4. Offsite - Mitigated

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5.18.1.1. Unmitigated

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5.18.2.1. Unmitigated

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8.6.1. Construction Measure Inputs

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Staten Island
Construction Start Date	5/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.70000
Precipitation (days)	34.0000
Location	38.14457228684094, -121.55508746367138
County	San Joaquin
City	Unincorporated
Air District	San Joaquin Valley APCD
Air Basin	San Joaquin Valley
TAZ	2118
EDFZ	4
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.44

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
User Defined Linear	4.00000	Mile	0.00000	0.00000	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
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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.	5.83557	4.37403	65.4823	39.0358	0.30017	1.87514	173.961	175.836	1.77569	24.4370	26.2127	—	41,187.9	41,187.9	0.85104	5.00565	71.9699	42,772.9
Mit.	5.83557	4.37403	65.4823	39.0358	0.30017	1.87514	164.917	166.793	1.77569	20.1875	21.9632	—	41,187.9	41,187.9	0.85104	5.00565	71.9699	42,772.9
% Reduced	—	—	—	—	—	—	5%	5%	—	17%	16%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.78683	4.34479	67.8718	38.5023	0.30017	1.87514	173.961	175.836	1.77569	24.4370	26.2127	—	41,154.0	41,154.0	0.84621	5.00604	1.86380	42,668.8
Mit.	5.78683	4.34479	67.8718	38.5023	0.30017	1.87514	164.917	166.793	1.77569	20.1875	21.9632	—	41,154.0	41,154.0	0.84621	5.00604	1.86380	42,668.8
% Reduced	—	—	—	—	—	—	5%	5%	—	17%	16%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.84484	1.38655	21.3168	12.2571	0.09540	0.59594	50.7992	51.3952	0.56433	7.31110	7.87542	—	13,080.4	13,080.4	0.27059	1.59096	9.87238	13,571.1

Mit.	1.84484	1.38655	21.3168	12.2571	0.09540	0.59594	47.9250	48.5210	0.56433	5.96058	6.52490	—	13,080.4	13,080.4	0.27059	1.59096	9.87238	13,571.1
% Reduced	—	—	—	—	—	—	6%	6%	—	18%	17%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33668	0.25305	3.89031	2.23692	0.01741	0.10876	9.27086	9.37962	0.10299	1.33428	1.43726	—	2,165.60	2,165.60	0.04480	0.26340	1.63449	2,246.85
Mit.	0.33668	0.25305	3.89031	2.23692	0.01741	0.10876	8.74632	8.85507	0.10299	1.08780	1.19079	—	2,165.60	2,165.60	0.04480	0.26340	1.63449	2,246.85
% Reduced	—	—	—	—	—	—	6%	6%	—	18%	17%	—	—	—	—	—	—	—

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.83557	4.37403	65.4823	39.0358	0.30017	1.87514	173.961	175.836	1.77569	24.4370	26.2127	—	41,187.9	41,187.9	0.85104	5.00565	71.9699	42,772.9
2028	3.12086	2.18957	39.9175	23.7918	0.23040	0.98093	136.464	137.445	0.94487	15.0113	15.9562	—	31,617.2	31,617.2	0.61528	4.18251	55.6513	32,934.7
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.78683	4.34479	67.8718	38.5023	0.30017	1.87514	173.961	175.836	1.77569	24.4370	26.2127	—	41,154.0	41,154.0	0.84621	5.00604	1.86380	42,668.8
2028	3.09085	2.15032	41.9179	23.2936	0.23040	0.98093	136.464	137.445	0.94487	15.0113	15.9562	—	31,582.4	31,582.4	0.61608	4.18290	1.44180	32,845.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.84484	1.38655	21.3168	12.2571	0.09540	0.59594	50.7992	51.3952	0.56433	7.31110	7.87542	—	13,080.4	13,080.4	0.27059	1.59096	9.87238	13,571.1
2028	0.98724	0.68673	13.1129	7.41675	0.07322	0.31175	39.5608	39.8726	0.30029	4.38437	4.68466	—	10,038.7	10,038.7	0.19567	1.32924	7.62600	10,447.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.33668	0.25305	3.89031	2.23692	0.01741	0.10876	9.27086	9.37962	0.10299	1.33428	1.43726	—	2,165.60	2,165.60	0.04480	0.26340	1.63449	2,246.85

2028	0.18017	0.12533	2.39310	1.35356	0.01336	0.05689	7.21985	7.27674	0.05480	0.80015	0.85495	—	1,662.02	1,662.02	0.03240	0.22007	1.26257	1,729.68
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2.2.2. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	14.8261	16.0693	1.14373	6.96637	8.11010	—	9,041.76	9,041.76	0.36677	0.07335	0.00000	9,072.79
2028	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	1.41162	1.86245	0.41476	0.19072	0.60548	—	5,267.34	5,267.34	0.21367	0.04273	0.00000	5,285.41
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	14.8261	16.0693	1.14373	6.96637	8.11010	—	9,041.76	9,041.76	0.36677	0.07335	0.00000	9,072.79
2028	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	1.41162	1.86245	0.41476	0.19072	0.60548	—	5,267.34	5,267.34	0.21367	0.04273	0.00000	5,285.41
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.46500	1.23101	9.72297	9.52092	0.02654	0.39509	4.71185	5.10694	0.36349	2.21397	2.57746	—	2,873.55	2,873.55	0.11656	0.02331	0.00000	2,883.41
2028	0.66531	0.55905	3.67434	5.13527	0.01546	0.14328	0.44862	0.59190	0.13182	0.06061	0.19243	—	1,674.00	1,674.00	0.06790	0.01358	0.00000	1,679.75
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.26736	0.22466	1.77444	1.73757	0.00484	0.07210	0.85991	0.93202	0.06634	0.40405	0.47039	—	475.748	475.748	0.01930	0.00386	0.00000	477.381
2028	0.12142	0.10203	0.67057	0.93719	0.00282	0.02615	0.08187	0.10802	0.02406	0.01106	0.03512	—	277.150	277.150	0.01124	0.00225	0.00000	278.101

2.2.3. Offsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.22588	0.50060	34.8885	9.07773	0.21667	0.63196	159.135	159.767	0.63196	17.4706	18.1026	—	32,146.2	32,146.2	0.48427	4.93229	71.9699	33,700.1

2028	1.02742	0.43050	28.3560	7.63342	0.18175	0.53010	135.053	135.583	0.53010	14.8206	15.3507	—	26,349.9	26,349.9	0.40162	4.13977	55.6513	27,649.2
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.17714	0.47137	37.2779	8.54426	0.21667	0.63196	159.135	159.767	0.63196	17.4706	18.1026	—	32,112.2	32,112.2	0.47944	4.93269	1.86380	33,596.0
2028	0.99742	0.39125	30.3564	7.13522	0.18175	0.53010	135.053	135.583	0.53010	14.8206	15.3507	—	26,315.1	26,315.1	0.40241	4.14017	1.44180	27,560.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.37984	0.15554	11.5938	2.73618	0.06886	0.20084	46.0874	46.2882	0.20084	5.09713	5.29797	—	10,206.8	10,206.8	0.15403	1.56765	9.87238	10,687.7
2028	0.32193	0.12768	9.43855	2.28148	0.05776	0.16847	39.1122	39.2807	0.16847	4.32376	4.49223	—	8,364.70	8,364.70	0.12776	1.31565	7.62600	8,767.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06932	0.02839	2.11587	0.49935	0.01257	0.03665	8.41095	8.44760	0.03665	0.93023	0.96688	—	1,689.86	1,689.86	0.02550	0.25954	1.63449	1,769.47
2028	0.05875	0.02330	1.72254	0.41637	0.01054	0.03075	7.13797	7.16872	0.03075	0.78909	0.81983	—	1,384.87	1,384.87	0.02115	0.21782	1.26257	1,451.57

2.2.4. Total Construction Emissions by Year, Mitigated

Includes both onsite and offsite emissions.

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.83557	4.37403	65.4823	39.0358	0.30017	1.87514	164.917	166.793	1.77569	20.1875	21.9632	—	41,187.9	41,187.9	0.85104	5.00565	71.9699	42,772.9
2028	3.12086	2.18957	39.9175	23.7918	0.23040	0.98093	135.603	136.584	0.94487	14.8950	15.8399	—	31,617.2	31,617.2	0.61528	4.18251	55.6513	32,934.7
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	5.78683	4.34479	67.8718	38.5023	0.30017	1.87514	164.917	166.793	1.77569	20.1875	21.9632	—	41,154.0	41,154.0	0.84621	5.00604	1.86380	42,668.8
2028	3.09085	2.15032	41.9179	23.2936	0.23040	0.98093	135.603	136.584	0.94487	14.8950	15.8399	—	31,582.4	31,582.4	0.61608	4.18290	1.44180	32,845.7
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.84484	1.38655	21.3168	12.2571	0.09540	0.59594	47.9250	48.5210	0.56433	5.96058	6.52490	—	13,080.4	13,080.4	0.27059	1.59096	9.87238	13,571.1

2028	0.98724	0.68673	13.1129	7.41675	0.07322	0.31175	39.2871	39.5989	0.30029	4.34740	4.64768	—	10,038.7	10,038.7	0.19567	1.32924	7.62600	10,447.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.33668	0.25305	3.89031	2.23692	0.01741	0.10876	8.74632	8.85507	0.10299	1.08780	1.19079	—	2,165.60	2,165.60	0.04480	0.26340	1.63449	2,246.85
2028	0.18017	0.12533	2.39310	1.35356	0.01336	0.05689	7.16990	7.22680	0.05480	0.79340	0.84820	—	1,662.02	1,662.02	0.03240	0.22007	1.26257	1,729.68

2.2.5. Onsite 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	5.78217	7.02536	1.14373	2.71689	3.86062	—	9,041.76	9,041.76	0.36677	0.07335	0.00000	9,072.79
2028	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	0.55053	1.00136	0.41476	0.07438	0.48914	—	5,267.34	5,267.34	0.21367	0.04273	0.00000	5,285.41
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	5.78217	7.02536	1.14373	2.71689	3.86062	—	9,041.76	9,041.76	0.36677	0.07335	0.00000	9,072.79
2028	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	0.55053	1.00136	0.41476	0.07438	0.48914	—	5,267.34	5,267.34	0.21367	0.04273	0.00000	5,285.41
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.46500	1.23101	9.72297	9.52092	0.02654	0.39509	1.83762	2.23272	0.36349	0.86345	1.22694	—	2,873.55	2,873.55	0.11656	0.02331	0.00000	2,883.41
2028	0.66531	0.55905	3.67434	5.13527	0.01546	0.14328	0.17496	0.31824	0.13182	0.02364	0.15545	—	1,674.00	1,674.00	0.06790	0.01358	0.00000	1,679.75
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.26736	0.22466	1.77444	1.73757	0.00484	0.07210	0.33537	0.40747	0.06634	0.15758	0.22392	—	475.748	475.748	0.01930	0.00386	0.00000	477.381
2028	0.12142	0.10203	0.67057	0.93719	0.00282	0.02615	0.03193	0.05808	0.02406	0.00431	0.02837	—	277.150	277.150	0.01124	0.00225	0.00000	278.101

2.2.6. Offsite 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
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Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.22588	0.50060	34.8885	9.07773	0.21667	0.63196	159.135	159.767	0.63196	17.4706	18.1026	—	32,146.2	32,146.2	0.48427	4.93229	71.9699	33,700.1
2028	1.02742	0.43050	28.3560	7.63342	0.18175	0.53010	135.053	135.583	0.53010	14.8206	15.3507	—	26,349.9	26,349.9	0.40162	4.13977	55.6513	27,649.2
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.17714	0.47137	37.2779	8.54426	0.21667	0.63196	159.135	159.767	0.63196	17.4706	18.1026	—	32,112.2	32,112.2	0.47944	4.93269	1.86380	33,596.0
2028	0.99742	0.39125	30.3564	7.13522	0.18175	0.53010	135.053	135.583	0.53010	14.8206	15.3507	—	26,315.1	26,315.1	0.40241	4.14017	1.44180	27,560.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.37984	0.15554	11.5938	2.73618	0.06886	0.20084	46.0874	46.2882	0.20084	5.09713	5.29797	—	10,206.8	10,206.8	0.15403	1.56765	9.87238	10,687.7
2028	0.32193	0.12768	9.43855	2.28148	0.05776	0.16847	39.1122	39.2807	0.16847	4.32376	4.49223	—	8,364.70	8,364.70	0.12776	1.31565	7.62600	8,767.59
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06932	0.02839	2.11587	0.49935	0.01257	0.03665	8.41095	8.44760	0.03665	0.93023	0.96688	—	1,689.86	1,689.86	0.02550	0.25954	1.63449	1,769.47
2028	0.05875	0.02330	1.72254	0.41637	0.01054	0.03075	7.13797	7.16872	0.03075	0.78909	0.81983	—	1,384.87	1,384.87	0.02115	0.21782	1.26257	1,451.57

3. Construction Emissions Details

3.1. Construction 2028 (2028)

3.1.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	—	0.45083	0.41476	—	0.41476	—	5,267.34	5,267.34	0.21367	0.04273	—	5,285.41

Dust From Material Movement	—	—	—	—	—	—	1.41162	1.41162	—	0.19072	0.19072	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	—	0.45083	0.41476	—	0.41476	—	5,267.34	5,267.34	0.21367	0.04273	—	5,285.41
Dust From Material Movement	—	—	—	—	—	—	1.41162	1.41162	—	0.19072	0.19072	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66531	0.55905	3.67434	5.13527	0.01546	0.14328	—	0.14328	0.13182	—	0.13182	—	1,674.00	1,674.00	0.06790	0.01358	—	1,679.75
Dust From Material Movement	—	—	—	—	—	—	0.44862	0.44862	—	0.06061	0.06061	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12142	0.10203	0.67057	0.93719	0.00282	0.02615	—	0.02615	0.02406	—	0.02406	—	277.150	277.150	0.01124	0.00225	—	278.101

Dust From Material Movement	—	—	—	—	—	—	0.08187	0.08187	—	0.01106	0.01106	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08333	0.08214	0.09405	1.97900	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	457.314	457.314	0.00278	0.01508	1.32476	463.202
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.94409	0.34835	28.2620	5.65442	0.18175	0.53010	125.339	125.870	0.53010	13.7921	14.3222	—	25,892.6	25,892.6	0.39884	4.12469	54.3266	27,186.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07857	0.06310	0.11032	1.40002	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	412.800	412.800	0.00357	0.01548	0.03436	417.535
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.91884	0.32816	30.2461	5.73519	0.18175	0.53010	125.339	125.870	0.53010	13.7921	14.3222	—	25,902.3	25,902.3	0.39884	4.12469	1.40744	27,142.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02510	0.02018	0.03468	0.47483	0.00000	0.00000	2.80936	2.80936	0.00000	0.29872	0.29872	—	134.537	134.537	0.00101	0.00479	0.18179	136.172
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.29683	0.10750	9.40387	1.80665	0.05776	0.16847	36.3028	36.4713	0.16847	4.02504	4.19351	—	8,230.17	8,230.17	0.12675	1.31086	7.44421	8,631.42
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00458	0.00368	0.00633	0.08666	0.00000	0.00000	0.51271	0.51271	0.00000	0.05452	0.05452	—	22.2741	22.2741	0.00017	0.00079	0.03010	22.5448
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.05417	0.01962	1.71621	0.32971	0.01054	0.03075	6.62527	6.65601	0.03075	0.73457	0.76531	—	1,362.60	1,362.60	0.02099	0.21703	1.23247	1,429.03

3.1.3. Onsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	—	0.45083	0.41476	—	0.41476	—	5,267.34	5,267.34	0.21367	0.04273	—	5,285.41
Dust From Material Movement	—	—	—	—	—	—	0.55053	0.55053	—	0.07438	0.07438	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.09344	1.75907	11.5615	16.1584	0.04866	0.45083	—	0.45083	0.41476	—	0.41476	—	5,267.34	5,267.34	0.21367	0.04273	—	5,285.41
Dust From Material Movement	—	—	—	—	—	—	0.55053	0.55053	—	0.07438	0.07438	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.66531	0.55905	3.67434	5.13527	0.01546	0.14328	—	0.14328	0.13182	—	0.13182	—	1,674.00	1,674.00	0.06790	0.01358	—	1,679.75

Dust From Material Movement	—	—	—	—	—	—	0.17496	0.17496	—	0.02364	0.02364	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12142	0.10203	0.67057	0.93719	0.00282	0.02615	—	0.02615	0.02406	—	0.02406	—	277.150	277.150	0.01124	0.00225	—	278.101
Dust From Material Movement	—	—	—	—	—	—	0.03193	0.03193	—	0.00431	0.00431	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.4. Offsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08333	0.08214	0.09405	1.97900	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	457.314	457.314	0.00278	0.01508	1.32476	463.202
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.94409	0.34835	28.2620	5.65442	0.18175	0.53010	125.339	125.870	0.53010	13.7921	14.3222	—	25,892.6	25,892.6	0.39884	4.12469	54.3266	27,186.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07857	0.06310	0.11032	1.40002	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	412.800	412.800	0.00357	0.01548	0.03436	417.535
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.91884	0.32816	30.2461	5.73519	0.18175	0.53010	125.339	125.870	0.53010	13.7921	14.3222	—	25,902.3	25,902.3	0.39884	4.12469	1.40744	27,142.8

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02510	0.02018	0.03468	0.47483	0.00000	0.00000	2.80936	2.80936	0.00000	0.29872	0.29872	—	134.537	134.537	0.00101	0.00479	0.18179	136.172
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.29683	0.10750	9.40387	1.80665	0.05776	0.16847	36.3028	36.4713	0.16847	4.02504	4.19351	—	8,230.17	8,230.17	0.12675	1.31086	7.44421	8,631.42
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00458	0.00368	0.00633	0.08666	0.00000	0.00000	0.51271	0.51271	0.00000	0.05452	0.05452	—	22.2741	22.2741	0.00017	0.00079	0.03010	22.5448
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.05417	0.01962	1.71621	0.32971	0.01054	0.03075	6.62527	6.65601	0.03075	0.73457	0.76531	—	1,362.60	1,362.60	0.02099	0.21703	1.23247	1,429.03

3.2. Construction 2027 (2027)

3.2.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	—	1.24319	1.14373	—	1.14373	—	9,041.76	9,041.76	0.36677	0.07335	—	9,072.79
Dust From Material Movement	—	—	—	—	—	—	14.8261	14.8261	—	6.96637	6.96637	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm ent	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	—	1.24319	1.14373	—	1.14373	—	9,041.76	9,041.76	0.36677	0.07335	—	9,072.79
Dust From Material Movement	—	—	—	—	—	—	14.8261	14.8261	—	6.96637	6.96637	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.46500	1.23101	9.72297	9.52092	0.02654	0.39509	—	0.39509	0.36349	—	0.36349	—	2,873.55	2,873.55	0.11656	0.02331	—	2,883.41
Dust From Material Movement	—	—	—	—	—	—	4.71185	4.71185	—	2.21397	2.21397	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.26736	0.22466	1.77444	1.73757	0.00484	0.07210	—	0.07210	0.06634	—	0.06634	—	475.748	475.748	0.01930	0.00386	—	477.381
Dust From Material Movement	—	—	—	—	—	—	0.85991	0.85991	—	0.40405	0.40405	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10040	0.08532	0.09484	2.12623	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	466.353	466.353	0.00278	0.01508	1.48166	472.398
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	1.12548	0.41528	34.7936	6.95151	0.21667	0.63196	149.422	150.054	0.63196	16.4421	17.0740	—	31,679.8	31,679.8	0.48149	4.91721	70.4883	33,227.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08175	0.08016	0.12500	1.49645	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	420.848	420.848	0.00397	0.01548	0.03833	425.597
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	1.09539	0.39121	37.1529	7.04780	0.21667	0.63196	149.422	150.054	0.63196	16.4421	17.0740	—	31,691.4	31,691.4	0.47547	4.91721	1.82547	33,170.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02598	0.02548	0.03493	0.51355	0.00000	0.00000	2.80936	2.80936	0.00000	0.29872	0.29872	—	137.172	137.172	0.00101	0.00492	0.20325	138.867
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.35386	0.13007	11.5588	2.22264	0.06886	0.20084	43.2780	43.4789	0.20084	4.79840	4.99925	—	10,069.6	10,069.6	0.15302	1.56273	9.66913	10,548.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00474	0.00465	0.00638	0.09372	0.00000	0.00000	0.51271	0.51271	0.00000	0.05452	0.05452	—	22.7105	22.7105	0.00017	0.00081	0.03365	22.9909
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.06458	0.02374	2.10949	0.40563	0.01257	0.03665	7.89824	7.93490	0.03665	0.87571	0.91236	—	1,667.15	1,667.15	0.02533	0.25873	1.60084	1,746.48

3.2.3. Onsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	—	1.24319	1.14373	—	1.14373	—	9,041.76	9,041.76	0.36677	0.07335	—	9,072.79
Dust From Material Movement	—	—	—	—	—	—	5.78217	5.78217	—	2.71689	2.71689	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	4.60969	3.87342	30.5938	29.9581	0.08350	1.24319	—	1.24319	1.14373	—	1.14373	—	9,041.76	9,041.76	0.36677	0.07335	—	9,072.79
Dust From Material Movement	—	—	—	—	—	—	5.78217	5.78217	—	2.71689	2.71689	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.46500	1.23101	9.72297	9.52092	0.02654	0.39509	—	0.39509	0.36349	—	0.36349	—	2,873.55	2,873.55	0.11656	0.02331	—	2,883.41
Dust From Material Movement	—	—	—	—	—	—	1.83762	1.83762	—	0.86345	0.86345	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.26736	0.22466	1.77444	1.73757	0.00484	0.07210	—	0.07210	0.06634	—	0.06634	—	475.748	475.748	0.01930	0.00386	—	477.381
Dust From Material Movement	—	—	—	—	—	—	0.33537	0.33537	—	0.15758	0.15758	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.4. Offsite - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10040	0.08532	0.09484	2.12623	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	466.353	466.353	0.00278	0.01508	1.48166	472.398
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	1.12548	0.41528	34.7936	6.95151	0.21667	0.63196	149.422	150.054	0.63196	16.4421	17.0740	—	31,679.8	31,679.8	0.48149	4.91721	70.4883	33,227.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08175	0.08016	0.12500	1.49645	0.00000	0.00000	9.71312	9.71312	0.00000	1.02854	1.02854	—	420.848	420.848	0.00397	0.01548	0.03833	425.597
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	1.09539	0.39121	37.1529	7.04780	0.21667	0.63196	149.422	150.054	0.63196	16.4421	17.0740	—	31,691.4	31,691.4	0.47547	4.91721	1.82547	33,170.4
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02598	0.02548	0.03493	0.51355	0.00000	0.00000	2.80936	2.80936	0.00000	0.29872	0.29872	—	137.172	137.172	0.00101	0.00492	0.20325	138.867
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.35386	0.13007	11.5588	2.22264	0.06886	0.20084	43.2780	43.4789	0.20084	4.79840	4.99925	—	10,069.6	10,069.6	0.15302	1.56273	9.66913	10,548.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00474	0.00465	0.00638	0.09372	0.00000	0.00000	0.51271	0.51271	0.00000	0.05452	0.05452	—	22.7105	22.7105	0.00017	0.00081	0.03365	22.9909

Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.06458	0.02374	2.10949	0.40563	0.01257	0.03665	7.89824	7.93490	0.03665	0.87571	0.91236	—	1,667.15	1,667.15	0.02533	0.25873	1.60084	1,746.48

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Construction 2028	Linear, Grading & Excavation	5/1/2028	10/9/2028	5.00000	116.000	Sta. 822+00 to Sta. 895+00
Construction 2027	Linear, Grading & Excavation	5/1/2027	10/11/2027	5.00000	116.000	Sta. 1000+00 to Sta. 1038+00

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Construction 2028	Rubber Tired Loaders	Diesel	Average	1.000000	8.00000	130.000	0.36000
Construction 2028	Graders	Diesel	Average	1.000000	8.00000	224.000	0.41000
Construction 2028	Rollers	Diesel	Average	1.000000	8.00000	249.000	0.38000
Construction 2028	Excavators	Diesel	Average	1.000000	8.00000	172.000	0.38000
Construction 2028	Off-Highway Trucks	Diesel	Average	1.000000	8.00000	376.000	0.38000
Construction 2028	Off-Highway Trucks	Diesel	Average	1.000000	8.00000	325.000	0.38000
Construction 2027	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	215.000	0.40000
Construction 2027	Graders	Diesel	Average	1.000000	8.00000	224.000	0.41000
Construction 2027	Rollers	Diesel	Average	1.000000	8.00000	249.000	0.38000
Construction 2027	Excavators	Diesel	Average	1.000000	8.00000	172.000	0.38000
Construction 2027	Scrapers	Diesel	Average	0.09000	12.0000	181.000	0.48000
Construction 2027	Forklifts	Diesel	Average	0.08000	9.00000	82.0000	0.20000
Construction 2027	Off-Highway Trucks	Diesel	Average	2.00000	8.00000	376.000	0.38000
Construction 2027	Off-Highway Trucks	Diesel	Average	2.00000	8.00000	325.000	0.38000

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Construction 2028	Rubber Tired Loaders	Diesel	Average	1.000000	8.00000	130.000	0.36000
Construction 2028	Graders	Diesel	Average	1.000000	8.00000	224.000	0.41000
Construction 2028	Rollers	Diesel	Average	1.000000	8.00000	249.000	0.38000
Construction 2028	Excavators	Diesel	Average	1.000000	8.00000	172.000	0.38000
Construction 2028	Off-Highway Trucks	Diesel	Average	1.000000	8.00000	376.000	0.38000
Construction 2028	Off-Highway Trucks	Diesel	Average	1.000000	8.00000	325.000	0.38000
Construction 2027	Rubber Tired Dozers	Diesel	Average	2.00000	8.00000	215.000	0.40000
Construction 2027	Graders	Diesel	Average	1.000000	8.00000	224.000	0.41000

Construction 2027	Rollers	Diesel	Average	1.000000	8.00000	249.000	0.38000
Construction 2027	Excavators	Diesel	Average	1.000000	8.00000	172.000	0.38000
Construction 2027	Scrapers	Diesel	Average	0.09000	12.0000	181.000	0.48000
Construction 2027	Forklifts	Diesel	Average	0.08000	9.00000	82.0000	0.20000
Construction 2027	Off-Highway Trucks	Diesel	Average	2.00000	8.00000	376.000	0.38000
Construction 2027	Off-Highway Trucks	Diesel	Average	2.00000	8.00000	325.000	0.38000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Construction 2028	Worker	18.0000	35.0000	LDA,LDT1,LDT2
Construction 2028	Vendor	0.00000	0.00000	HHDT,MHDT
Construction 2028	Hauling	229.000	35.0000	HHDT
Construction 2028	Onsite truck	—	—	HHDT
Construction 2027	Worker	18.0000	35.0000	LDA,LDT1,LDT2
Construction 2027	Vendor	0.00000	0.00000	HHDT,MHDT
Construction 2027	Hauling	273.000	35.0000	HHDT
Construction 2027	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Construction 2028	Worker	18.0000	35.0000	LDA,LDT1,LDT2
Construction 2028	Vendor	0.00000	0.00000	HHDT,MHDT
Construction 2028	Hauling	229.000	35.0000	HHDT
Construction 2028	Onsite truck	—	—	HHDT
Construction 2027	Worker	18.0000	35.0000	LDA,LDT1,LDT2
Construction 2027	Vendor	0.00000	0.00000	HHDT,MHDT

Construction 2027	Hauling	273.000	35.0000	HHDT
Construction 2027	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Ton of Debris)	Material Exported (Ton of Debris)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Construction 2028	332,110	—	58.0000	0.00000	0.00000
Construction 2027	394,894	—	189.660	0.00000	0.00000

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	203.983	0.03300	0.00400
2028	0.00000	203.983	0.03300	0.00400

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	22.9900	annual days of extreme heat
Extreme Precipitation	2.45000	annual days with precipitation above 20 mm
Sea Level Rise	2.50526	meters of inundation depth
Wildfire	0.00000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	45.1400
AQ-PM	44.1817

AQ-DPM	42.9371
Drinking Water	98.3639
Lead Risk Housing	47.8135
Pesticides	86.7241
Toxic Releases	16.5041
Traffic	53.9750
Effect Indicators	—
CleanUp Sites	20.4741
Groundwater	83.9947
Haz Waste Facilities/Generators	72.5877
Impaired Water Bodies	97.5220
Solid Waste	52.8981
Sensitive Population	—
Asthma	22.3579
Cardio-vascular	42.0239
Low Birth Weights	74.3906
Socioeconomic Factor Indicators	—
Education	82.1817
Housing	28.2383
Linguistic	75.1929
Poverty	90.3643
Unemployment	93.0895

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.47991788

Employed	35.60887976
Median HI	20.67239831
Education	—
Bachelor's or higher	25.84370589
High school enrollment	7.211600154
Preschool enrollment	88.36134993
Transportation	—
Auto Access	73.42486847
Active commuting	67.86860003
Social	—
2-parent households	88.38701399
Voting	77.37713332
Neighborhood	—
Alcohol availability	58.78352368
Park access	2.194276915
Retail density	1.437187219
Supermarket access	12.78070063
Tree canopy	64.51944052
Housing	—
Homeownership	49.62145515
Housing habitability	67.86860003
Low-inc homeowner severe housing cost burden	55.48569229
Low-inc renter severe housing cost burden	75.08020018
Uncrowded housing	50.73784165
Health Outcomes	—
Insured adults	43.44924933
Arthritis	0.0
Asthma ER Admissions	87.8

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	8.4
Cognitively Disabled	41.3
Physically Disabled	33.4
Heart Attack ER Admissions	74.2
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	98.9
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	16.5
English Speaking	25.5
Foreign-born	66.1
Outdoor Workers	2.9

Climate Change Adaptive Capacity	—
Impervious Surface Cover	94.8
Traffic Density	52.2
Traffic Access	0.0
Other Indices	—
Hardship	77.9
Other Decision Support	—
2016 Voting	55.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0000
Healthy Places Index Score for Project Location (b)	39.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Start and end dates are modified from the 5/1 to 10/31 estimate for each year given Wagner & Bonsignores estimate of 232 working days.
Construction: Off-Road Equipment	Per Wagner & Bonsignore, February 2026.
Construction: Dust From Material Movement	Estimate based on total imported material (727,000 tons) and import phasing estimates.
Construction: Trips and VMT	35 miles average estimated travel distance for workers and haul trucks. Haul trips based on 58,240 total trips over 232 work days.
Construction: On-Road Fugitive Dust	All travel would be on paved road with the exception of within the Project Area/ on Staten Island.

8.4. Construction

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Construction 2028	Worker	One-Way Trips per Day	0.00000	18.0000
Construction 2028	Worker	Miles per Trip	11.8900	35.0000
Construction 2028	Vendor	Miles per Trip	9.10000	0.00000
Construction 2028	Hauling	One-Way Trips per Day	283.095	229.000
Construction 2028	Hauling	Miles per Trip	20.0000	35.0000
Construction 2027	Worker	One-Way Trips per Day	0.00000	18.0000
Construction 2027	Worker	Miles per Trip	11.8900	35.0000
Construction 2027	Vendor	Miles per Trip	9.10000	0.00000
Construction 2027	Hauling	One-Way Trips per Day	336.612	273.000
Construction 2027	Hauling	Miles per Trip	20.0000	35.0000

8.4.7. On-Road Fugitive Dust

Phase Name	Model Parameter	Units	Default Value	New Value
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Construction 2028	Worker Trip Paved	%	100.0000	99.0000
Construction 2028	Hauling Trip Paved	%	100.0000	99.0000
Construction 2027	Worker Trip Paved	%	100.0000	99.0000
Construction 2027	Hauling Trip Paved	%	100.0000	99.0000

8.6. Measure Input Overrides

8.6.1. Construction Measure Inputs

Measure Number and Input Name	Construction Phase	Equipment Type	Model Parameter	Default Value	New Value
C-10-A - Water Exposed Surfaces	—	—	Watering Frequency	3	2
C-11 - Limit Vehicle Speeds on Unpaved Roads	—	—	PM10 Percent Reduction	66.0000	43.0000
C-11 - Limit Vehicle Speeds on Unpaved Roads	—	—	PM2.5 Percent Reduction	66.0000	44.0000