

Appendix A
CalEEMod Results

Marina High School Summary Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Marina High School
Construction Start Date	2/6/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	32.6
Location	298 Patton Pkwy, Marina, CA 93933, USA
County	Monterey
City	Marina
Air District	Monterey Bay ARD
Air Basin	North Central Coast
TAZ	3262
EDFZ	6
Electric Utility	Pacific Gas & Electric Company
Gas Utility	Pacific Gas & Electric
App Version	2022.1.1.16

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
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Arena	142	1000sqft	3.27	142,000	20,819	108,010	—	High School Multi Use SportiStadium
Parking Lot	85.0	Space	0.76	0.00	0.00	0.00	—	Parking Lot

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-2*	Limit Heavy-Duty Diesel Vehicle Idling
Construction	C-9	Use Dust Suppressants
Construction	C-11	Limit Vehicle Speeds on Unpaved Roads
Construction	C-12	Sweep Paved Roads
Transportation	T-14*	Provide Electric Vehicle Charging Infrastructure
Transportation	T-34*	Provide Bike Parking
Energy	E-7*	Require Higher Efficacy Public Street and Area Lighting
Natural Lands	N-2	Expand Urban Tree Planting

* 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.	ROG	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—	—
Unmit.	21.9	19.8	20.1	52.9	5.76
Mit.	21.9	19.8	20.1	52.9	5.76
% Reduced	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Unmit.	21.9	36.0	33.7	52.9	5.76

Mit.	21.9	36.0	33.7	52.9	5.76
% Reduced	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—
Unmit.	1.24	9.85	11.5	27.8	3.31
Mit.	1.24	9.85	11.5	27.8	3.31
% Reduced	—	—	—	—	—
Annual (Max)	—	—	—	—	—
Unmit.	0.23	1.80	2.09	5.08	0.60
Mit.	0.23	1.80	2.09	5.08	0.60
% Reduced	—	—	—	—	—

2.4. Operations 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.	ROG	NOx	CO	PM10T	PM2.5T
Daily, Summer (Max)	—	—	—	—	—
Unmit.	10.5	5.68	52.4	—	—
Mit.	10.5	5.67	52.4	—	—
% Reduced	< 0.5%	< 0.5%	—	—	—
Daily, Winter (Max)	—	—	—	—	—
Unmit.	9.41	6.63	46.5	—	—
Mit.	9.41	6.62	46.5	—	—
% Reduced	< 0.5%	< 0.5%	—	—	—
Average Daily (Max)	—	—	—	—	—
Unmit.	10.0	6.27	48.2	—	—
Mit.	10.0	6.26	48.2	—	—
% Reduced	< 0.5%	< 0.5%	—	—	—
Annual (Max)	—	—	—	—	—

Unmit.	1.83	1.14	8.80	—	—
Mit.	1.83	1.14	8.80	—	—
% Reduced	< 0.5%	< 0.5%	—	—	—

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
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)	68.0
Healthy Places Index Score for Project Location (b)	19.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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.