



Local Hazard Mitigation Plan

San Mateo County, California

Midpeninsula Regional Open Space District Annex

2026

DRAFT



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This Annex details the hazard mitigation elements specific to the Midpeninsula Regional Open Space District (Midpen), a participating jurisdiction of the 2026 San Mateo County Local Hazard Mitigation Plan (LHMP or the Plan) update. This Annex is not intended to be a standalone document but supplements the information contained in **Volume 1 (Countywide Planning Elements)**. Therefore, all sections of **Volume 1**, including the planning process, hazard identification and risk assessment, mitigation strategy (includes mitigation goals and objectives), and plan maintenance, apply to and were met by Midpen. This Annex provides additional information specific to the District, with a focus on providing further details on the hazard risk assessment and mitigation strategy (i.e., mitigation actions) for this community.

1. HAZARD MITIGATION LOCAL PLANNING TEAM

The following individuals have been identified as the Midpen Local Planning Team for the 2026 LHMP. These individuals participated in all aspects of the planning process and developed a risk and vulnerability assessment, capability assessment, and mitigation strategy (including mitigation actions) specific to the jurisdiction.

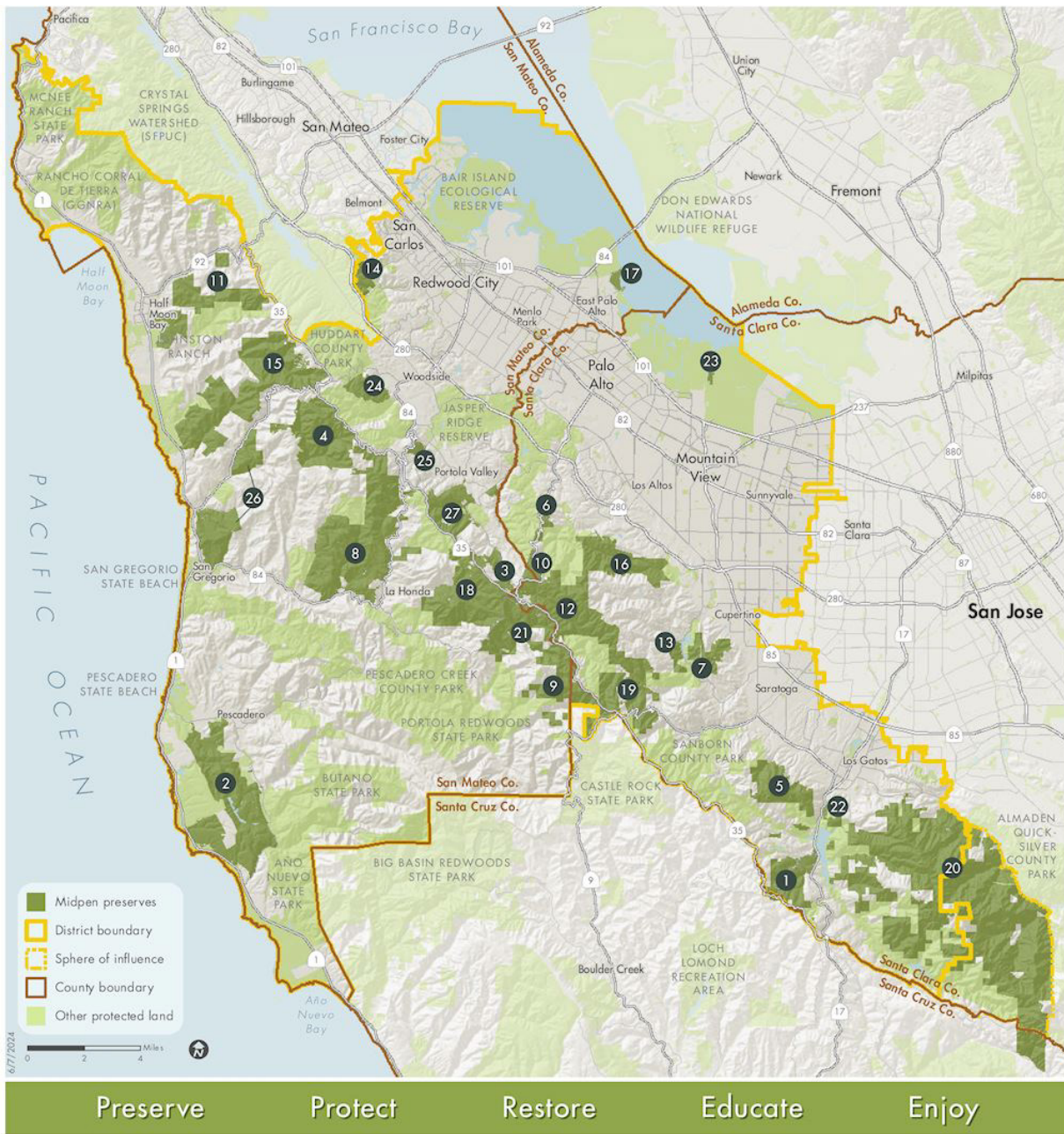
Name	Title	Department
Michael Gorman	Land Stewardship and Trails Manager	Land Stewardship
Ben Talavera	Management Analyst II	Land and Facilities
Matt Anderson	Visitor Services Manager / Chief Ranger	Visitor Services

2. JURISDICTION PROFILE

Midpen is a regional greenbelt special district in the San Francisco Bay Area. It comprises over 70,000 acres of land across 27 open space preserves in the Santa Cruz Mountains region, protected for recreation, education, and conservation. The diverse and scenic landscapes, from bay wetlands to redwood forests and coastal grasslands, host an incredible diversity of life. Currently, the District's boundary extends from the Pacific Ocean in San Mateo County to the southern borders of the City of Pacifica and the San Mateo/Santa Cruz County line. The service area covers 93.2 square miles. The District's jurisdictional area is displayed in **Figure 1**.



Figure 1. Midpeninsula Regional Open Space District Area Map



Preserve Protect Restore Educate Enjoy



- | | | | | |
|----------------------------|---------------------|----------------------------|--|------------------|
| 1 Bear Creek Redwoods | 7 Fremont Older | 13 Picchetti Ranch | 19 Saratoga Gap | 25 Thornewood |
| 2 Cloverdale Ranch | 8 La Honda Creek | 14 Pulgas Ridge | 20 Sierra Azul | 26 Tunitas Creek |
| 3 Coal Creek | 9 Long Ridge | 15 Purisima Creek Redwoods | 21 Skyline Ridge | 27 Windy Hill |
| 4 El Corte de Madera Creek | 10 Los Trancos | 16 Rancho San Antonio | 22 St. Joseph's Hill | |
| 5 El Sereno | 11 Miramontes Ridge | 17 Ravenswood | 23 Stevens Creek Shoreline Nature Area | |
| 6 Foothills | 12 Monte Bello | 18 Russian Ridge | 24 Teague Hill | |



2.1. Brief History

MidPen was created by successfully placing a voter initiative, Measure R, on the Santa Clara County ballot in 1972. Four (4) years later, in 1976, voters in San Mateo County elected to join the District. In 1992, the District further expanded by adding a small portion of Santa Cruz County.

2.2. Governing Body Format

Midpen is governed by a seven (7) member elected board of directors. Each board member is elected to serve a four (4) year term and represents a geographic ward of approximately equal population. General funding is provided by a small share of the annual total property tax revenues collected within Midpen boundaries, except on the San Mateo County Coastside.

Midpen assumes responsibility for adopting this Plan, and the governing Board of Directors will oversee its implementation.

2.3. Population

Midpen serves a population of approximately 760,000 residents within the counties of San Mateo, Santa Clara, and Santa Cruz.

2.4. Assets

Table 1 summarizes the District's critical assets and their values.

Table 1. Midpeninsula Regional Open Space District Assets

Asset	Value
<i>Property</i>	
70,000 Acres of Land	\$800,000,000
<i>Equipment</i>	
13 Portable Generators	\$19,500
16 Ranger Fire Pumpers	\$300,000
One (1) 1,800 Gallon Water Truck	\$150,000
One (1) 2,000 Gallon Water Truck	\$165,000
Two (2) John Deere 210 Skip Loader	\$260,000
Four (4) Mini Excavators	\$200,000
Two (2) 10 Yard Dump Trucks	\$300,000
Two (2) 6 Yard Dump Trucks	\$200,000
Five (5) 3 Yard Dump Trucks	\$90,000
Three (3) Skid Steer Loaders	\$75,000
Two (2) Electric Road Signs	\$34,000



Asset	Value
One (1) Trailer Chipper	\$40,000
One (1) Large Track Chipper	\$75,000
TOTAL	\$801,908,500
Critical Facilities and Infrastructure	
Foothill Field Office <i>(22500 Cristo Rey Drive, Cupertino, CA 95014)</i>	\$3,000,000
Skyline Field Office <i>(21150 Skyline Ranch Road, La Honda, CA 94020)</i>	\$2,500,000
Coastal Area Office <i>(5710 La Honda Road, La Honda, CA 94020)</i>	\$200,000
South Area Office <i>(240 Cristich Lane, Campbell, CA 95008)</i>	\$7,000,000
Administration Office <i>(5050 El Camino Real, Los Altos, CA 94022)</i>	\$40,000,000
TOTAL	\$52,700,000

3. CHANGES IN DEVELOPMENT

Over the last five (5) years, Midpen has not experienced any major development. However, during the next five (5) years, redevelopment is planned for the District's new Skyline Field Office. Construction of the new Field Office is planned for 2028.

3.1. Changes in Priority

Midpen's overall hazard mitigation priorities have not changed significantly since the last Plan update. However, mitigation actions from the previous Plan were updated, and a more concerted effort to achieve equitable outcomes for all communities, including underserved communities and socially vulnerable populations, has been implemented.

4. CAPABILITY ASSESSMENT

Federal regulations require hazard mitigation plans to identify goals for reducing long-term vulnerabilities to the identified hazards in the planning area (Section 201.6(c)(3)(i)). A critical step in developing specific hazard mitigation actions and projects is assessing existing authorities, policies, programs, and resources and capabilities, and using or modifying local tools to reduce losses and vulnerability from profiled hazards.

A capability assessment was conducted for Midpen's authorities, policies, programs, and resources. Goals and mitigation actions were developed using input from this assessment.

The Local Planning Team assessed Midpen's capabilities that can contribute to the reduction of long-term vulnerabilities to hazards. The capabilities include the following categories:



- Planning and Regulatory Capabilities
- Administrative and Technical Capabilities
- Fiscal Capabilities
- Education and Outreach Capabilities

Additionally, ways to expand and improve these existing policies and programs to integrate hazard mitigation into the District’s day-to-day activities were considered.

4.1. Planning and Regulatory Capabilities

Table 2 includes local ordinances, policies, and laws to manage growth and development (e.g., land use plans, capital improvement plans, transportation plans, emergency preparedness and response plans, building codes, and zoning ordinances).

Table 2. Planning and Regulatory Capabilities

Capability Category	Yes/No	Authority (local, county, state, federal)	Responsible Department/ Agency	Code Citation and Comments (e.g., Code Chapter, name of plan, explanation of authority, etc.)
Planning Capacity				
Comprehensive Plan / General Plan	Yes	Local	Community Advisory Committee	2014 Vision Plan Basic Police (2025)
Capital Improvement Plan	No	n/a	n/a	n/a
Floodplain Management / Basin Plan	No	n/a	n/a	n/a
Stormwater Management Plan	No	n/a	n/a	n/a
Open Space Plan	Yes	Local	Board of Directors	Open Space Use and Management Planning Process (Revised in 2013) Resource Management Policies
Stream Corridor Management Plan	No	n/a	n/a	n/a
Watershed Management or Protection Plan	No	n/a	n/a	n/a
Economic Development Plan	No	n/a	n/a	n/a
Comprehensive Emergency Management Plan	No	n/a	n/a	n/a
Emergency Operations Plan	No	n/a	n/a	n/a
Evacuation Plan	No	n/a	n/a	n/a



Capability Category	Yes/No	Authority (local, county, state, federal)	Responsible Department/ Agency	Code Citation and Comments (e.g., Code Chapter, name of plan, explanation of authority, etc.)
Post-Disaster Recovery Plan	No	n/a	n/a	n/a
Transportation Plan	No	n/a	n/a	n/a
Strategic Recovery Planning Report	No	n/a	n/a	n/a
Climate Adaptation Plan	No	n/a	n/a	n/a
Resilience Plan	Yes	Local	Board of Directors	Wildland Fire Resiliency Program (includes Vegetation Management Plan, Preserve Maps to Assist Fire Agencies, Monitoring Plan, Prescribed Fire Plan)
Regulatory Capability				
Building Code	No	n/a	n/a	Regulated by each municipality and the County
Zoning Code	No	n/a	n/a	Regulated by each municipality and the County
Subdivision Code	No	n/a	n/a	Regulated by each municipality and the County
Flood Damage Prevention Ordinance	No	n/a	n/a	Regulated by each municipality and the County
Cumulative Substantial Damage Ordinance	No	n/a	n/a	n/a
Freeboard	No	n/a	n/a	n/a
Growth Management Ordinance	No	n/a	n/a	Regulated by each municipality and the County
Site Plan Review	No	n/a	n/a	n/a
Stormwater Management Ordinance	No	n/a	n/a	n/a
Municipal Separate Storm Sewer System (MS4)	No	n/a	n/a	n/a
Natural Hazard Ordinance	No	n/a	n/a	n/a
Post-Disaster Recovery Ordinance	No	n/a	n/a	n/a
Real Estate Disclosure Requirement	No	n/a	n/a	n/a
Ordinance for Use of Midpeninsula Regional Open Space Lands	Yes	Local	Board of Directors	Revised in 2013



4.2. Administrative and Technical Capabilities

The administrative and technical capabilities listed in **Table 3** include community (i.e., public and private) staff, their skills, and tools that can be used for mitigation planning and implementation. This capability includes engineers, planners, emergency managers, Geographic Information System (GIS) analysts, building inspectors, grant writers, and floodplain managers. Small communities may rely on other government entities, such as counties or special districts, for resources.

Table 3. Administration and Technical Capabilities

Capability	Yes/No	Comments <i>(e.g., position, department, agency, explanation)</i>
Administrative Capabilities		
Planning Board	Yes	Board of Directors
Mitigation Planning Committee	No	n/a
Environmental Board/Commission	No	n/a
Open Space Board/Committee	No	n/a
Economic Development Commission/Committee	No	n/a
Maintenance programs to reduce risk	Yes	Natural Resources Department Land and Facilities Department Engineering Department
Mutual Aid Agreements	No	n/a
Technical/Staffing Capabilities		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Planning Department (Senior Planner) Land and Facilities Department (Area Manager)
Engineer(s) or professional(s) trained in building or infrastructure construction practices	Yes	Engineering Department (Senior Capital Project Manager)
Planners or engineers with an understanding of natural hazards	No	n/a
NFIP Floodplain Administrator	No	n/a
Surveyor(s)	No	n/a
Personnel skilled or trained in GIS applications	Yes	Information Systems Technology Department (GIS Program Administrator)
A scientist familiar with natural hazards	Yes	Natural Resources Department (Senior Resource Management Specialist)
Warning systems/services	No	n/a
Emergency manager	No	n/a
Grantwriter(s)	Yes	Finance Department (Grants Program Manager)
Staff with expertise or training in benefit cost analysis	Yes	Finance Department (Accountant)



Capability	Yes/No	Comments <i>(e.g., position, department, agency, explanation)</i>
Professionals trained in conducting damage assessments	Yes	Land Stewardship and Trails Department (Area Manager) Engineering Department (Senior Capital Project Manager)

4.3. Fiscal Capabilities

Table 4 lists fiscal capabilities available to Midpen that may be used to implement mitigation activities to reduce risk and enhance resiliency. This capability includes available funding sources from local budgets, state and federal grants, potential cost-sharing arrangements with private entities, existing insurance policies, and the ability to generate additional revenue through mitigation-related fees and bonds.

Table 4. Financial Capabilities

Capability	Accessible or Eligible to Use
Community Development Block Grants (CDBG, CDBG-DR)	No
Federal Hazard Mitigation Assistance Program <i>(i.e., Hazard Mitigation Grant Program (HMGP), HMGP Post Fire, Flood Mitigation Assistance (FMA) Program)</i>	No
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas, or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	Yes
Open space acquisition funding programs	Yes

4.4. Education and Outreach Capabilities

Table 5 lists the District’s education and public outreach capabilities that can be used to inform residents about potential hazards, educate on mitigation strategies, and encourage proactive actions to reduce the community’s impacts to disasters. These capabilities include fire safety programs, hazard awareness campaigns, public information, and communications offices.



Table 5. Education and Outreach Capabilities

Capability	Yes/No	Comments <i>(e.g., position, department, agency, explanation)</i>
Public Information Officer	Yes	Public Affairs Department
Personnel skilled or trained in website development	Yes	Information Systems and Technology Department
Hazard mitigation information is available on the jurisdiction's website	No	n/a
Utilize social media for hazard mitigation education and outreach	No	n/a
Citizen boards or commissions that address issues related to hazard mitigation	No	n/a
Other programs already in place that could be used to communicate hazard-related information	No	n/a
An established warning system for hazard events	No	n/a

4.5. Community Classifications

The community classification relates to the community’s ability to provide effective services to reduce its vulnerability to the identified hazards. These classifications can be viewed as indicators of the community’s capabilities across all phases of emergency management (i.e., preparedness, response, recovery, and mitigation) and are used as underwriting parameters to determine the costs of various forms of insurance. **Table 6** summarizes the classifications of community programs available to Midpen.

Table 6. Community Classifications

Program	Yes/No	Classification <i>(if applicable)</i>	Date Classified <i>(if applicable)</i>
Community Rating System (CRS)	No	n/a	n/a
Building Code Effectiveness Grading Schedule (BCEGS)	No	n/a	n/a
Public Protection (ISO Fire Protection Classes 1 to 10)	No	n/a	n/a
NWS StormReady®	No	n/a	n/a
NWS TsunamiReady®	No	n/a	n/a
Firewise USA®	No	n/a	n/a

4.6. Needs to Expand/Improve Capabilities

Midpen identified existing authorities, policies, programs, funding, and/or resources that need to be expanded and/or improved to support the implementation of the hazard mitigation initiatives identified in this Plan (e.g., mitigation actions).

- Identify and seek local, state, and federal funding to support wildfire mitigation projects that aim to facilitate/expedite important mitigation measures as outlined in the Wildland Fire Resiliency Program.



- Expand/improve grant writing capabilities by potentially hiring more grant writers to increase capabilities to apply for hazard mitigation grant funding to help fund priority projects. These include, but are not limited to, improvements to land drainage facilities (e.g., culverts, bridges).
- Expansion and development of the Coastal Field Office is needed in order to better serve the District, including the implementation of mitigation action projects to reduce vulnerability and impacts to the hazards outlined in this LHMP, as appropriate.

5. NATIONAL FLOOD INSURANCE PROGRAM

As a special district, Midpen is not eligible to participate in FEMA’s National Flood Insurance Program (NFIP). Further information on San Mateo County’s NFIP and Community Rating System (CRS) participation is available in **Volume 1** of this Plan and under each jurisdictional annex (**Volume 2**).

6. HAZARD MITIGATION PLAN INTEGRATION

For a community to successfully reduce long-term risk, hazard mitigation must be integrated into day-to-day planning mechanisms and initiatives. Plan integration is the process by which communities critically assess the existing planning framework and align efforts to reduce long-term risks and build a more resilient community. It involves a two (2) way exchange of information and incorporation of ideas and concepts between hazard mitigation plans and other community plans. In particular, plan integration involves incorporating hazard mitigation principles and actions into other plans and integrating planning mechanisms into hazard mitigation plans. Plan integration involves community plans, policies, codes, and programs that guide development and define roles and responsibilities for implementing these capabilities. Additionally, plan integration is achieved through the involvement of key staff and community officials in collaborative hazard mitigation planning.

6.1. Existing Plan Integration

A hazard mitigation plan must explain how the jurisdiction incorporated the previous Plan update over the last five (5) years to demonstrate progress in local mitigation efforts. During the performance period since the adoption of the previous LHMP, Midpen has made progress in integrating components of the hazard mitigation strategy (e.g., goals, objectives, and actions) into planning initiatives and mechanisms. **Table 7** highlights the planning mechanisms/initiatives in which the previous Plan was integrated and the information integrated.

Table 7. Existing Plan Integration

Planning Initiative	Current Integration Description
Emergency Operations Plan	Midpen maintains a close alignment between the LHMP and its Emergency Operations Plan (EOP). The EOP includes information on earthquakes, flooding, and wildfires, which the LHMP supplemented. Additionally, the EOP integrates mitigation considerations into its response actions to reduce the District’s risk exposure. The LHMP is currently used as an essential tool to update the District’s EOP.



6.2. Potential Future Integration

A hazard mitigation plan must explain how the jurisdiction intends to incorporate this Plan update into planning mechanisms over the next five (5) years. The capability assessment presented in Section 4 of this Annex identifies codes, plans, and programs that provide opportunities for integration. **Table 8** outlines planning mechanisms/initiatives that do not currently integrate the goals and recommendations of this Plan but provide opportunities to do so in the future.

Table 8. Potential Future Integration

Planning Initiative	Current Integration Description
Business Continuity Plan	The Business Continuity Plan is a proposed cross-departmental plan to ensure continuity of essential business operations in the event of a disaster. The LHMP could be integrated by using the hazard risk assessment to ensure operational resilience within the District. This could allow prioritization of the restoration of essential services and reduce long-term service interruptions.
Emergency Operations Plan	The LHMP will remain an essential tool to update the District's Emergency Operations Plan (EOP). The latest LHMP hazard descriptions will be included. Mitigation actions that are of a preparedness and response nature will be analyzed for applicability and inclusion in the description of EOP processes and procedures.
Wildland Fire Resilience Program	Wildland fire prevention, preparation, and response are part of Midpen's ongoing land stewardship. The District reduces wildland fire severity and risk in the region by managing vegetation in the preserves with a focus on ecological health and wildland fire resilience, in alignment with their mission and policies. The LHMP could be integrated by using the wildfire risk assessment to identify and prioritize mitigation projects that help the Program accomplish its mission of reducing wildfire risk, vulnerability, and impact.

The District's Local Planning Team will identify all relevant planning initiatives scheduled for update in the next year and during the annual update process of the LHMP. Additionally, the Local Planning Team will identify opportunities to integrate key elements of the LHMP, specifically relevant strategies, into the planning initiatives. Mitigation actions were identified to promote plan integration in future revisions of this Plan.

7. SIGNIFICANT PAST EVENTS

A complete risk assessment, including past incidents, for each identified hazard of concern, can be found in **Volume 1** of this Plan. A summary of past events is provided under each hazard profile and includes a chronology of events that have affected the County and its municipalities.

8. HAZARD VULNERABILITY AND IMPACT ASSESSMENT

Exposure and vulnerability to certain hazards affect the entire County, and others are geographically defined. Although the entire County may be vulnerable to these hazards, their impacts may vary



depending on existing community conditions (e.g., underserved populations or those with access and functional needs may be more susceptible under certain conditions).

The Local Planning Team identified **unique vulnerabilities and impacts** to the following natural hazards, based on the hazards profiled in **Volume 1**.

- Earthquake
- Landslide
- Severe Weather (*heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog*)
- Wildfire

It was determined that the planning area did not have unique vulnerabilities or impacts from the following natural hazards; rather, its vulnerabilities and impacts are consistent with those experienced throughout the County.

- Dam Failure
- Drought
- Flood (*riverine flooding, urban/flash flooding, coastal flooding*)
- Sea Level Rise
- Tsunami

Note: Severe weather and flood are profiled as the two (2) hazards. However, to conduct a more thorough risk assessment, the sub-hazards (i.e., heavy rainfall, heat wave/extreme heat, fog, severe thunderstorms, tornadoes, strong winds, riverine flooding, urban/flash flooding, and coastal flooding) were ranked individually. The hazard risk assessment methodology can be found in Chapter 4 of **Volume 1** of this Plan.

Table 9 outlines the **unique vulnerabilities and impacts** for Midpen and addresses only the hazards relevant to the jurisdiction. A complete risk assessment for each identified hazard of concern is in **Volume 1** of this Plan. Hazard mapping can be found in Appendix A of this Annex.

Table 9. Hazard Vulnerability and Impact Assessment

Hazard	Vulnerability and Impacts
Dam Failure	The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from dam failure; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.
Drought	The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from drought; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.



Hazard	Vulnerability and Impacts
Earthquake	<p>Midpen lands are located in seismically active areas that could experience significant ground shaking or fault rupture and related ground movement. The San Andreas Fault, one of the world’s longest and most active faults, cuts through the eastern side of the Santa Cruz Mountains.</p> <p>District buildings, including both field offices (Skyline Field Office and Coastal Field Office), lack seismic reinforcement. The field offices are critical to emergency response actions in the surrounding preserves.</p>
Flood <i>(riverine flooding, urban/flash flooding, coastal flooding)</i>	<p>The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from flooding; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.</p>
Landslide	<p>Midpen lands consist of a diverse set of dynamic geological resources characterized by wide variations in elevation (up to 3,400 feet in elevation), a variety of aspects and slopes (west-facing, east-facing), earthquake faults, pressure ridges, sag ponds, landslides, high variation of soil types and soil formations, and attractive but fragile rock formations. Furthermore, Midpen lands are located in seismically active areas that could experience significant ground shaking, fault rupture, seismic-related ground movement, and/or landsliding.</p> <p>Landslides can isolate rural communities during major disasters. There are limited means of access to both mid-coast and rural communities adjacent to Midpen lands. These roads could be damaged, blocked, or rendered impassable by landslides.</p>
Sea Level Rise	<p>The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from sea level rise; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.</p>
Severe Weather <i>(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)</i>	<p>Rainfall occurs mostly between November and April with varying seasonal rainfall totals. The greatest rainfall occurs along the west-facing slopes near the summit of the mountain range, where totals can reach 40 to 50 inches per year; however, averages of 20 to 30 inches per year are more typical. In the Santa Cruz Mountains, fog accounts for approximately 10 to 20 inches of precipitation, much of which falls during the dry summer months.</p> <p>There are limited means of access to both the mid-coast and rural communities located adjacent to Midpen lands. These roads could be damaged, blocked, or rendered impassable during and after severe weather.</p>
Tsunami	<p>The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from tsunamis; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.</p>



Hazard	Vulnerability and Impacts
Wildfire	Most of the land Midpen owns is within the Wildland Urban Interface (WUI) and within High and Very High Fire Hazard Severity Zones. Fire can spread rapidly throughout WUI areas through adjacent structures and/or vegetation, or by ember dispersion. Community Wildfire Protection Plans (CWPPs) have identified priority areas for fuel reduction within several open space preserves, including Pulgas Ridge in San Mateo County, as well as along State Route 35 within several open space preserves. Other Midpen assets that can be vulnerable to wildfires include recreational, administrative, and operational facilities; historic sites (e.g., historic barns in La Honda Creek, the Thornewood residence, the Hawthorns Historic Complex); roads and trails; and critical utilities.

The District evaluated whether vulnerability in hazard-prone areas had increased, decreased, or remained the same for each natural hazard identified in this LHMP. Climate change, changes in population, infrastructure expansion, and economic shifts that can affect vulnerability were considered. For example, if planned development is in an identified hazard area or is not built to the updated building codes, it may increase the community’s vulnerability to future hazards and disasters. On the other hand, if development occurred with mitigation practices in place, the vulnerability may have remained the same or decreased. Additionally, shifting demographics (e.g., underserved population) were taken into consideration.

Table 10 outlines whether climate change has increased or decreased the District’s vulnerability (i.e., exposure) and impact to each natural hazard over the past five (5) years, and the effect of climate change on the future probability of occurrence and impacts from each natural hazard

Table 10. Climate Change: Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
<i>Current Vulnerability and Impact</i>	
Dam Failure	Remained the Same
Drought	Increased
Earthquake	Remained the Same
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	Remained the Same
Landslide	Remained the Same
Sea Level Rise	Remained the Same
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	Increased
Tsunami	Remained the Same
Wildfire	Increased
<i>Future Vulnerability and Impact</i>	
Dam Failure	No Change Anticipated
Drought	Increase
Earthquake	No Change Anticipated



Hazard	Vulnerability and Impact
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	No Change Anticipated
Landslide	No Change Anticipated
Sea Level Rise	No Change Anticipated
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	Increase
Tsunami	No Change Anticipated
Wildfire	Increase

Table 11 outlines whether changes in population within the District over the past five (5) years have increased or decreased the vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in population may have on the future probability of occurrence and impacts from these natural hazards.

Table 11. Changes in Population: Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Dam Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	Remained the Same
Landslide	Remained the Same
Sea Level Rise	Remained the Same
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	Remained the Same
Tsunami	Remained the Same
Wildfire	Remained the Same
Future Vulnerability and Impact	
Dam Failure	No Change Anticipated
Drought	No Change Anticipated
Earthquake	No Change Anticipated
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	No Change Anticipated
Landslide	No Change Anticipated
Sea Level Rise	No Change Anticipated
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	No Change Anticipated
Tsunami	No Change Anticipated
Wildfire	No Change Anticipated



Table 12 outlines whether development over the past five (5) years has increased or decreased the District’s vulnerability (i.e., exposure) and impact to these natural hazards, and the anticipated effects changes in development may have on the future probability of occurrence and impacts from these natural hazards.

Table 12. Changes in Development: Current and Future Vulnerability and Impact

Hazard	Vulnerability and Impact
Current Vulnerability and Impact	
Dam Failure	Remained the Same
Drought	Remained the Same
Earthquake	Remained the Same
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	Remained the Same
Landslide	Remained the Same
Sea Level Rise	Remained the Same
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	Remained the Same
Tsunami	Remained the Same
Wildfire	Remained the Same
Future Vulnerability and Impact	
Dam Failure	No Change Anticipated
Drought	No Change Anticipated
Earthquake	No Change Anticipated
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	No Change Anticipated
Landslide	No Change Anticipated
Sea Level Rise	No Change Anticipated
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	No Change Anticipated
Tsunami	No Change Anticipated
Wildfire	No Change Anticipated

8.1. Future Major Assets

Community assets should include anything that is important to a community's character and function. Assets include people (i.e., underserved population); structures (i.e., new and existing buildings); community lifelines and other critical facilities; natural, historic, and cultural resources; and the economy and other activities that have value to the community. Although all assets may be affected by the hazards identified in this LHMP, the jurisdiction has identified future major assets that may be more vulnerable and impacted by these hazards.



- The District plans to rebuild the Skyline Field Office. Due to its location, the new Office may be vulnerable to wildfires, severe weather, and earthquakes.

9. HAZARD RISK RANKING

Table 13 presents the local hazard ranking for Midpen of all hazards of concern listed in **Volume 1** of this Plan. This ranking summarizes how hazards vary for this jurisdiction. As thoroughly described in **Volume 1** of this Plan, 14 factors were evaluated to provide an informed and comprehensive analysis and ranking of the hazards included in this LHMP.

- **Probability** (likelihood of annual occurrence)
- **Extent** of the hazard, including catastrophic potential
- **Vulnerability** (i.e., exposure) of the population, property (including critical infrastructure), and changes in the development (over the past five (5) years)
- **Impacts** on population and life safety, underserved population, property (including critical infrastructure), the economy, the environment, continuity of operations/delivery of services, future development, and climate change

The scores for extent, vulnerability, and impact were weighted and combined to produce a consequence score. This consequence score was then multiplied by the probability score to calculate the total risk score for each hazard. At the fundamental level, the consequence is an assessment of the potential impact(s) if the hazards incident were to occur. In this assessment, the consequence score (i.e., the consequence of an event) will be independent of the extent, vulnerability, and impacts. The probability of the hazards is not included in assessing the consequence because, without an event, there is no consequence or impact. For further details on how the probability, extent, vulnerability, and impact factors in **Table 13** were calculated, please refer to Chapter 4 in **Volume 1** of this Plan. Details of the hazard ranking results are provided in Appendix C of this Annex.

It is important to note that the sub-hazards for severe weather (i.e., heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, and fog) and flood (i.e., riverine flooding, urban/flash flooding, coastal flooding) were individually ranked in the hazard risk ranking; however, severe weather and flood are each considered as the main hazard throughout this Annex and **Volume 1**.



Table 13. Midpeninsula Regional Open Space District Hazard Risk Ranking

Hazard Event	Probability Factor	Sum of Weighted Extent Factors	Sum of Weighted Vulnerability Factors	Sum of Weighted Impact Factors	Consequence Score	Total Risk Score*
Urban/Flash Flooding (Flood)	3	12	13	28	53	74
Heavy Rainfall (Severe Weather)	3	12	13	22	47	65
Wildfire	2	18	13	35	67	62
Strong Winds (Severe Weather)	3	9	13	22	44	61
Earthquake	2	18	13	34	65	60
Landslide	2	12	13	31	56	52
Severe Thunderstorm (Severe Weather)	2	15	13	26	54	50
Heat Wave/Extreme Heat (Severe Weather)	3	9	10	15	34	47
Drought	2	6	13	23	42	39
Riverine Flooding (Flood)	2	6	5	14	25	23
Tornado (Severe Weather)	1	6	13	13	32	15
Fog (Severe Weather)	1	6	9	11	26	12
Coastal Flooding (Flood)	1	6	5	13	26	11
Sea Level Rise	1	6	5	12	23	11
Dam Failure	1	6	5	12	23	11
Tsunami	1	6	5	12	23	11

Extent: Sum of the weighted Extent factors.
Vulnerability: Sum of the weighted Vulnerability factors.
Impact: Sum of the weighted Impact factors.

Consequence Score: Extent + Vulnerability + Impact (Sum of all weighted factors).
Total Risk Score = Probability x Consequence
 * Normalized to 100

Total Risk Score Legend

Classification	Probability	Extent	Vulnerability	Impact	Consequence Score	Total Risk Score
Low (L)	1	0 – 6	0 – 4	0 – 12	0 – 24	0 – 32
Medium (M)	2	7 – 12	5 – 10	13 – 26	25 – 48	33 – 66
High (H)	3	13 – 18	11 – 15	27 – 39	49 – 72	67 – 100

The **legend**—specifically the assignment of low, medium, and high—provides an additional means to qualitatively assess the probability factor, sum of weighted factors, and the total risk scores for each hazard. The **Consequence Score** represents the sum of the Extent, Vulnerability, and Impact Factors. The **Total Risk Score** is a measure of Probability and Consequence.



10. MITIGATION ACTIONS

This section includes the mitigation actions developed to address the risks and vulnerabilities to the hazards identified in this Plan. This Plan serves only to recommend mitigation measures based on the potential for risk reduction and available funding. Implementation of mitigation actions is dependent on risk reduction priorities, feasibility, and available funding. It is also dependent on the cooperation and support of the jurisdiction and/or department responsible for each action item. Additionally, all mitigation actions identified in the 2021 update or before were updated accordingly. Any new mitigation actions are listed as *New* (under Project Status).

Midpen agreed to **15** mitigation actions that apply to the jurisdiction’s properties for which it has jurisdictional responsibility and authority. A summary of the District’s mitigation actions status is listed in **Table 14**.

Note: The mitigation actions outlined in this Plan are designed only to address those natural hazards that received a risk ranking of *medium* or *high* during the hazard risk assessment (**Table 13**). Hazards that ranked *low* (dam failure, sea level rise, and tsunami) may not have specific mitigation actions detailed in this document.

Table 14. Midpeninsula Regional Open Space District Mitigation Actions Summary

Status		Mitigation Action Total	
Continuing		3	
In Progress		12	
Not Yet Started		0	
New		0	
TOTAL		15	
Completed		0	
No Longer Needed		0	
Mitigation Actions per Hazard			
Dam Failure	6	Sea Level Rise	7
Drought	6	Severe Weather <i>(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)</i>	9
Earthquake	10	Tsunami	6
Flood <i>(riverine flooding, urban/flash flooding, coastal flooding)</i>	8	Wildfire	12
Landslide	10		

A detailed explanation of the Mitigation Strategy can be found in Chapter 5 of **Volume 1**.

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Mitigation Action	Enhance hazard mitigation planning by institutionalizing risk reduction strategies into the District's Emergency Operations Plan (EOP) and the Emergency/Disaster Preparedness and Recovery Plan. The plans will integrate current hazard vulnerability data, assist with identifying mitigation opportunities for critical infrastructure, and ensure continuity of services after a disaster.				
Action Number	OSD-1	Goal(s) Addressed	1, 5	Prioritization Score	32/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (General Manager's Office, Visitor Services Department)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Ensure District staff engage in comprehensive preparedness and emergency response training and exercises. This will help ensure the District maintains high-level preparedness and emergency response capabilities, and that all personnel are appropriately equipped to execute critical functions and maintain essential services during and after a disaster.				
Action Number	OSD-2	Goal(s) Addressed	1, 5	Prioritization Score	29/40
Year Added to the Plan	2021	Timeline (estimated)	Ongoing	Implementation Priority	Medium
Hazard(s) Mitigated	Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire				
Project Status	Continuing	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (All Departments)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Integrate the San Mateo County Hazard Mitigation Plan into District-specific planning documents and operational programs to ensure essential continuity of services after a disaster. This can include, but is not limited to, the District's capital improvement planning, district action plan, and emergency response plans with identified hazard risk data.				
Action Number	OSD-3	Goal(s) Addressed	1, 2, 3, 4, 5	Prioritization Score	28/40
Year Added to the Plan	2021	Timeline (estimated)	Ongoing	Implementation Priority	Medium
Hazard(s) Mitigated	Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire				
Project Status	Continuing	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (All Departments)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Formalize the inclusion of hazard mitigation objectives within Incident Action Plans (IAPs) during Incident Command Post and Department Operations Center activations. This will ensure that response operations also focus on reducing cascading risks and identifying potential mitigation measures to lessen long-term impacts.				
Action Number	OSD-4	Goal(s) Addressed	1, 3, 5	Prioritization Score	26/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Low				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Visitor Services Department)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Modernize the District's GIS data systems and mapping to ensure access to critical hazard layers (e.g., seismic fault lines, Fire Hazard Severity Zones) to better understand the District's most vulnerable areas and infrastructure. This will support identifying and prioritizing mitigation investments.				
Action Number	OSD-5	Goal(s) Addressed	1, 3, 4, 5	Prioritization Score	26/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Earthquake, Landslide, Wildfire				
Project Status	In Progress	<i>If No Longer Needed, provide reason.</i>	n/a		
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Information Systems and Technology Department, Planning Department, Land Stewardship and Trails Department)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Acquire lands to protect, preserve, and prevent development due to slope instability, wildfire risk, and other hazards. Subsequently, incorporate hazard mitigation into current capital improvement plans to ensure development does not encroach on known hazard areas.				
Action Number	OSD-6	Goal(s) Addressed	1, 3	Prioritization Score	37/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Dam Failure, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Planning Department, Engineering and Construction Department, Land Stewardship and Trails Department)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), Community Wildfire Defense Grant, CAL FIRE's Forest Legacy Program		
Additional Details (optional)					

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Mitigation Action	Implement systematic vegetation management strategies and programs to protect District assets, facilities, and critical infrastructure. This initiative will prioritize establishing and maintaining defensible space through strategic brush management, hazardous tree removal, and continuous fuel reduction to mitigate wildfire ignition risks and ensure operational continuity.				
Action Number	OSD-7	Goal(s) Addressed	1, 3, 4, 5	Prioritization Score	36/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Landslide, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Natural Resources Department, Land Stewardship and Trails Department)				
Supporting Agency / Organization (If applicable)	San Mateo County Fire Safety Council, San Mateo County Resource Conservation District				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), California Forest Improvement Program, HMGP		
Additional Details (optional)					

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Mitigation Action	Implement trail and road assessment recommendations to strengthen District infrastructure against flooding and erosion through protective measures, such as elevating roads and bridges, installing and upsizing culverts, or upgrading storm drains using District Details and Specifications standards.				
Action Number	OSD-8	Goal(s) Addressed	1, 3	Prioritization Score	35/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Earthquake, Flood, Landslide, Severe Weather				
Project Status	In Progress	<i>If No Longer Needed, provide reason.</i>	n/a		
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Engineering and Construction Department, Land Stewardship and Trails Department, Natural Resources Department)				
Supporting Agency / Organization (If applicable)	San Mateo County Resource Conservation District				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, FMA		
Additional Details (optional)					

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Mitigation Action	Conduct a seismic vulnerability study to inventory existing District facilities, structures, and infrastructure that require seismic retrofit.				
Action Number	OSD-9	Goal(s) Addressed	1	Prioritization Score	29/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Earthquake				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Engineering and Construction Department, Land Stewardship and Trails Department, Planning Department)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), HMPG		
Additional Details (optional)					

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Mitigation Action	Develop and implement water conservation plans.				
Action Number	OSD-10	Goal(s) Addressed	1, 3, 5	Prioritization Score	28/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Drought				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Natural Resources Department, Public Affairs Department)				
Supporting Agency / Organization (If applicable)	San Mateo County Resource Conservation District				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time), HMGP		
Additional Details (optional)					

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Mitigation Action	Implement the District Wildland Fire Resiliency Program targeting high-priority areas for vegetation management, ecosystem resilience, invasive species management, and other fire mitigation activities.				
Action Number	OSD-11	Goal(s) Addressed	1, 5	Prioritization Score	40/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Natural Resources Department, Land Stewardship and Trails Department)				
Supporting Agency / Organization (If applicable)	San Mateo County Fire Safety Council, San Mateo County Resource Conservation District, San Mateo County Office of Sustainability				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, California Forest Improvement Program, California State Coastal Conservancy		
Additional Details (optional)					

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Mitigation Action	Implement a public education program on wildfire resilience to raise awareness of wildfire risks and encourage adoption of wildfire safety practices (e.g., vegetation management, fire-resistant construction, onsite water storage) in high-hazard wildfire areas.				
Action Number	OSD-12	Goal(s) Addressed	1, 2	Prioritization Score	29/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	MidPeninsula Regional Open Space District (Natural Resources Department, Public Affairs Department)				
Supporting Agency / Organization (If applicable)	San Mateo County Fire Council, San Mateo County Resource Conservation District, San Mateo County Office of Sustainability				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Actively participate in the Hazard Mitigation Plan maintenance protocols outlined in Volume 1 of the San Mateo County Hazard Mitigation Plan.				
Action Number	OSD-13	Goal(s) Addressed	1, 2, 3, 4, 5	Prioritization Score	25/40
Year Added to the Plan	2021	Timeline (estimated)	Ongoing	Implementation Priority	Medium
Hazard(s) Mitigated	Dam Failure, Drought, Earthquake, Flood, Landslide, Sea Level Rise, Severe Weather, Tsunami, Wildfire				
Project Status	Continuing	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Midpeninsula Regional Open Space District (All Departments)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Low	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					

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Mitigation Action	Identify and institutionalize climate adaptation strategies by codifying resilience standards into existing District plans and infrastructure projects to reduce vulnerability and impacts of specific climate-driven hazards.				
Action Number	OSD-14	Goal(s) Addressed	1, 3, 4, 5	Prioritization Score	30/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Sea Level Rise, Severe Weather, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Natural Resources Department, Land Stewardship and Trails Department)				
Supporting Agency / Organization (If applicable)	San Mateo County Fire Safety Council, San Mateo County Resource Conservation District, San Mateo County Office of Sustainability				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, FMA		
Additional Details (optional)					

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Mitigation Action	Upsize critical facilities and infrastructure with permanent redundant power systems to prevent service disruptions during prolonged grid failures due to natural hazards.				
Action Number	OSD-15	Goal(s) Addressed	1, 2, 4, 5	Prioritization Score	22/40
Year Added to the Plan	2021	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Earthquake, Flood, Landslide, Severe Weather, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Midpeninsula Regional Open Space District (Land Stewardship and Trails Department)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time)		
Additional Details (optional)					



APPENDIX A. HAZARD MAPS

[Maps are under development...]



APPENDIX B. STAKEHOLDER AND PUBLIC ENGAGEMENT

[Information and supporting documentation will be added after the Public Comment Period concludes.]



APPENDIX C. HAZARD RISK RANKING DETAILS

This appendix provides the details of the hazard ranking results presented in Section 9 of this Annex. For a comprehensive explanation of the risk assessment methodology used for the 2026 LHMP rankings, refer to Chapter 4 in **Volume 1** of this Plan.

C.1. Probability of Occurrence

Hazard Event	Probability of Occurrence		Probability Factor	Weighted Factor
Dam Failure	Low	A significant hazard event is likely to occur within 100 years.	1	N/A
Drought	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A
Earthquake	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A
Riverine Flooding (<i>Flood</i>)	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A
Urban/Flash Flooding (<i>Flood</i>)	High	A significant hazard event is likely to occur annually.	3	N/A
Coastal Flooding (<i>Flood</i>)	Low	A significant hazard event is likely to occur within 100 years.	1	N/A
Landslide	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A
Sea Level Rise	Low	A significant hazard event is likely to occur within 100 years.	1	N/A
Heavy Rainfall (<i>Severe Weather</i>)	High	A significant hazard event is likely to occur annually.	3	N/A
Heat Wave/Extreme Heat (<i>Severe Weather</i>)	High	A significant hazard event is likely to occur annually.	3	N/A
Fog (<i>Severe Weather</i>)	Low	A significant hazard event is likely to occur within 100 years.	1	N/A
Severe Thunderstorm (<i>Severe Weather</i>)	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A
Tornado (<i>Severe Weather</i>)	Low	A significant hazard event is likely to occur within 100 years.	1	N/A
Strong Winds (<i>Severe Weather</i>)	High	A significant hazard event is likely to occur annually.	3	N/A
Tsunami	Low	A significant hazard event is likely to occur within 100 years.	1	N/A
Wildfire	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A



C.2. Extent Factors

Hazard Event	Extent Factor	Extent		Extent Factor	Weighted Factor	Score
Dam Failure	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Drought	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Earthquake	Extent/Severity	High	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident.	3	3	9
	Catastrophic	High	High potential that this hazard could be catastrophic.	3	3	9
Riverine Flooding (Flood)	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Urban/Flash Flooding (Flood)	Extent/Severity	Medium	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident.	2	3	6
	Catastrophic	Medium	Medium potential that this hazard could be catastrophic.	2	3	6
Coastal Flooding (Flood)	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Landslide	Extent/Severity	High	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident.	3	3	9
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3



Hazard Event	Extent Factor	Extent		Extent Factor	Weighted Factor	Score
Sea Level Rise	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Heavy Rainfall (Severe Weather)	Extent/Severity	Medium	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident.	2	3	6
	Catastrophic	Medium	Medium potential that this hazard could be catastrophic.	2	3	6
Heat Wave/Extreme Heat (Severe Weather)	Extent/Severity	Medium	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident.	2	3	6
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Fog (Severe Weather)	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Severe Thunderstorm (Severe Weather)	Extent/Severity	High	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident.	3	3	9
	Catastrophic	Medium	Medium potential that this hazard could be catastrophic.	2	3	6
Tornado (Severe Weather)	Extent/Severity	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3
Strong Winds (Severe Weather)	Extent/Severity	Medium	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident.	2	3	6
	Catastrophic	Low	Low potential that this hazard could be catastrophic.	1	3	3



Hazard Event	Extent Factor	Extent		Extent Factor	Weighted Factor	Score
Tsunami	<i>Extent/Severity</i>	Low	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a low-intensity incident.	1	3	3
	<i>Catastrophic</i>	Low	Low potential that this hazard could be catastrophic.	1	3	3
Wildfire	<i>Extent/Severity</i>	High	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a high-intensity incident.	3	3	9
	<i>Catastrophic</i>	High	High potential that this hazard could be catastrophic.	3	3	9

C.3. Vulnerability Factors

Hazard Event	Vulnerability Factor	Vulnerability		Vulnerability Factor	Weighted Factor	Score
Dam Failure	<i>Population Exposure</i>	Low	14% or less of the population is exposed to the hazard.	1	3	3
	<i>Property Exposure</i>	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Drought	<i>Population Exposure</i>	High	30% or more of the population is exposed to the hazard.	3	3	9
	<i>Property Exposure</i>	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Earthquake	<i>Population Exposure</i>	High	30% or more of the population is exposed to the hazard.	3	3	9
	<i>Property Exposure</i>	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1



Hazard Event	Vulnerability Factor	Vulnerability		Vulnerability Factor	Weighted Factor	Score
Riverine Flooding (Flood)	<i>Population Exposure</i>	Low	14% or less of the population is exposed to the hazard.	1	3	3
	<i>Property Exposure</i>	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Urban/Flash Flooding (Flood)	<i>Population Exposure</i>	High	30% or more of the population is exposed to the hazard.	3	3	9
	<i>Property Exposure</i>	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Coastal Flooding (Flood)	<i>Population Exposure</i>	Low	14% or less of the population is exposed to the hazard.	1	3	3
	<i>Property Exposure</i>	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Landslide	<i>Population Exposure</i>	High	30% or more of the population is exposed to the hazard.	3	3	9
	<i>Property Exposure</i>	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Sea Level Rise	<i>Population Exposure</i>	Low	14% or less of the population is exposed to the hazard.	1	3	3
	<i>Property Exposure</i>	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1

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Hazard Event	Vulnerability Factor	Vulnerability		Vulnerability Factor	Weighted Factor	Score
Heavy Rainfall (Severe Weather)	Population Exposure	High	30% or more of the population is exposed to the hazard.	3	3	9
	Property Exposure	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	Changes in Development	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Heat Wave/Extreme Heat (Severe Weather)	Population Exposure	High	30% or more of the population is exposed to the hazard.	3	3	9
	Property Exposure	No Vulnerability	None of the total assessed property value is exposed to a hazard.	0	1	0
	Changes in Development	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Fog (Severe Weather)	Population Exposure	High	30% or more of the population is exposed to the hazard.	3	3	9
	Property Exposure	No Vulnerability	None of the total assessed property value is exposed to a hazard.	0	1	0
	Changes in Development	No Vulnerability	Changes in development have had no effect and/or have decreased the community's exposure to the hazard.	0	1	0
Severe Thunderstorm (Severe Weather)	Population Exposure	High	30% or more of the population is exposed to the hazard.	3	3	9
	Property Exposure	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	Changes in Development	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Tornado (Severe Weather)	Population Exposure	High	30% or more of the population is exposed to the hazard.	3	3	9
	Property Exposure	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	Changes in Development	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1



Hazard Event	Vulnerability Factor	Vulnerability		Vulnerability Factor	Weighted Factor	Score
Strong Winds (Severe Weather)	<i>Population Exposure</i>	High	30% or more of the population is exposed to the hazard.	3	3	9
	<i>Property Exposure</i>	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Tsunami	<i>Population Exposure</i>	Low	14% or less of the population is exposed to the hazard.	1	3	3
	<i>Property Exposure</i>	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Wildfire	<i>Population Exposure</i>	High	30% or more of the population is exposed to the hazard.	3	3	9
	<i>Property Exposure</i>	High	25% or more of the total assessed property value is exposed to the hazard.	3	1	3
	<i>Changes in Development</i>	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1



C.4. Impact Factors

Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Dam Failure	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	No Impact	Climate change trends will not increase the impacts of this hazard.	0	1	0



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Drought	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Medium	Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care.	2	3	6
	Property, Facilities, and Critical Infrastructure	Medium	More than \$500,000 but less than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction.	2	2	4
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Medium	Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work.	2	1	2
	Continuity of Operations/Delivery of Services	Medium	Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	2	1	2
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	High	Climate Change trends will significantly increase the impacts of this hazard.	3	1	3



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Earthquake	Population and Life Safety	High	Populations exposed to this hazard are likely to experience significant adverse impacts, such as fatalities and severe injuries.	3	3	9
	Underserved Population	High	Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries.	3	3	9
	Property, Facilities, and Critical Infrastructure	High	More than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction.	3	2	6
	Economic	High	Total economic impact is likely to be greater than \$10 million.	3	1	3
	Environmental	High	Environmental impact from a single significant event is likely to be substantial, requiring extensive outside resources and support; and/or repair, cleanup, restoration, and/or preservation work.	3	1	3
	Continuity of Operations/Delivery of Services	High	Impact lasting more than 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	3	1	3
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	No Impact	Climate change trends will not increase the impacts of this hazard.	0	1	0



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Riverine Flooding (Flood)	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Medium	Climate Change trends will increase the impacts of this hazard, but not significantly.	2	1	2



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Urban/Flash Flooding (Flood)	Population and Life Safety	Medium	Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care.	2	3	6
	Underserved Population	High	Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries.	3	3	9
	Property, Facilities, and Critical Infrastructure	Medium	More than \$500,000 but less than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction.	2	2	4
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Medium	Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work.	2	1	2
	Continuity of Operations/Delivery of Services	Medium	Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	2	1	2
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Medium	Climate Change trends will increase the impacts of this hazard, but not significantly.	2	1	2



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Coastal Flooding (Flood)	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Low	Climate Change trends will minimally increase the impacts of this hazard.	1	1	1



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Landslide	Population and Life Safety	High	Populations exposed to this hazard are likely to experience significant adverse impacts, such as fatalities and severe injuries.	3	3	9
	Underserved Population	High	Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries.	3	3	9
	Property, Facilities, and Critical Infrastructure	Medium	More than \$500,000 but less than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction.	2	2	4
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Medium	Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work.	2	1	2
	Continuity of Operations/Delivery of Services	Medium	Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	2	1	2
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Medium	Climate Change trends will increase the impacts of this hazard, but not significantly.	2	1	2



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Sea Level Rise	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	No Impact	No impact on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	0	1	0
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Low	Climate Change trends will minimally increase the impacts of this hazard.	1	1	1



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Heavy Rainfall (Severe Weather)	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Medium	Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care.	2	3	6
	Property, Facilities, and Critical Infrastructure	Medium	More than \$500,000 but less than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction.	2	2	4
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Medium	Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work.	2	1	2
	Continuity of Operations/Delivery of Services	Medium	Impact lasting between 24 and 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	2	1	2
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Medium	Climate Change trends will increase the impacts of this hazard, but not significantly.	2	1	2



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Heat Wave/Extreme Heat (Severe Weather)	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Medium	Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care.	2	3	6
	Property, Facilities, and Critical Infrastructure	No Impact	Little to no property, facilities, and infrastructure damage is expected from a single significant event.	0	2	0
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	No Impact	No impact on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	0	1	0
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	High	Climate Change trends will significantly increase the impacts of this hazard.	3	1	3



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Fog (Severe Weather)	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	No Impact	Future development trends will not increase the impacts of this hazard, and/or may even decrease it.	0	1	0
	Climate Change	No Impact	Climate change trends will not increase the impacts of this hazard.	0	1	0



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Severe Thunderstorm (Severe Weather)	Population and Life Safety	Medium	Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care.	2	3	6
	Underserved Population	High	Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries.	3	3	9
	Property, Facilities, and Critical Infrastructure	Medium	More than \$500,000 but less than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction.	2	2	4
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Medium	Environmental impact from a single significant event is likely to be localized, requiring some outside resources and support; and/or repair, cleanup, restoration, or preservation work.	2	1	2
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Low	Climate Change trends will minimally increase the impacts of this hazard.	1	1	1



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Tornado (Severe Weather)	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Low	Climate Change trends will minimally increase the impacts of this hazard.	1	1	1



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Strong Winds (Severe Weather)	Population and Life Safety	Medium	Populations exposed to this hazard are likely to experience some adverse impacts, such as injuries requiring acute medical care.	2	3	6
	Underserved Population	Medium	Underserved populations exposed to the hazard are likely to experience some adverse/disproportionate impacts, such as injuries requiring acute medical care.	2	3	6
	Property, Facilities, and Critical Infrastructure	Medium	More than \$500,000 but less than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to more than 5% but less than 15% of the property value within the jurisdiction.	2	2	4
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	Low	Climate Change trends will minimally increase the impacts of this hazard.	1	1	1



Hazard Event	Impact Factor	Impact		Impact Factor	Weighted Factor	Score
Tsunami	Population and Life Safety	Low	Populations exposed to this hazard are likely to experience minimal adverse impacts, such as ambulatory injuries.	1	3	3
	Underserved Population	Low	Underserved populations exposed to the hazard are likely to experience minimal adverse/disproportionate impacts, such as ambulatory injuries.	1	3	3
	Property, Facilities, and Critical Infrastructure	Low	Less than \$500,000 in property, facilities, and infrastructure damages is expected from a single significant event, or damages are expected to occur to less than 5% of the property value within the jurisdiction.	1	2	2
	Economic	Low	Total economic impact is not likely to be greater than \$100,000.	1	1	1
	Environmental	Low	Environmental impact from a single significant event is likely to be minimal, requiring little to no outside resources and support; and/or minimal repair, cleanup, restoration, or preservation work.	1	1	1
	Continuity of Operations/Delivery of Services	Low	Impact lasting less than 24 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	1	1	1
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	No Impact	Climate change trends will not increase the impacts of this hazard.	0	1	0



Hazard Event	Impact Factor	Impact	Impact Factor	Weighted Factor	Score	
Wildfire	Population and Life Safety	High	Populations exposed to this hazard are likely to experience significant adverse impacts, such as fatalities and severe injuries.	3	3	9
	Underserved Population	High	Underserved populations exposed to the hazard are likely to experience significant adverse/disproportionate impacts, such as fatalities and severe injuries.	3	3	9
	Property, Facilities, and Critical Infrastructure	High	More than \$5 million in property, facilities, and infrastructure damage is expected from a single significant event, or damages are expected to occur to 15% or more of the property value within the jurisdiction.	3	2	6
	Economic	Medium	Total economic impact is likely to be greater than \$100,000, but less than or equal to \$10 million.	2	1	2
	Environmental	High	Environmental impact from a single significant event is likely to be substantial, requiring extensive outside resources and support; and/or repair, cleanup, restoration, and/or preservation work.	3	1	3
	Continuity of Operations/Delivery of Services	High	Impact lasting more than 72 hours on the ability of the jurisdiction to meet the essential day-to-day operational demands and needs of the community from a single significant event.	3	1	3
	Future Development	Low	Future development trends will minimally increase the impacts of this hazard.	1	1	1
	Climate Change	High	Climate Change trends will significantly increase the impacts of this hazard.	3	1	3



APPENDIX D. PLAN ADOPTION

[Placeholder for adoption documentation after State and FEMA approval]