



Local Hazard Mitigation Plan

San Mateo County, California

Westborough Water District Annex

2026

DRAFT



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This Annex details the hazard mitigation elements specific to the Westborough Water District (WWD), 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 WWD. 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 WWD 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
Patricia Mairena	General Manager	Westborough Water District
Joubin Pakpour	District Engineer	Pakpour Consulting Group
Gary Ushiro	Senior Engineer	Pakpour Consulting Group
Feraydoon Jahanian-Farsi	Project Engineer	Pakpour Consulting Group

2. JURISDICTION PROFILE

WWD, formerly known as Callan Park County Water District, is a special district created in 1961 to provide water distribution and sewer collection service to a one (1) square mile area within the City of South San Francisco (west of Interstate 280 to Skyline Boulevard and south of King Drive in Daly City to San Bruno). The District supplies water and sewer service to approximately 4,000 residential, commercial, and irrigation service connections. WWD owns 100% of its water supply and owns the sanitary sewer system. Under an agreement, the North San Mateo County Sanitation District (City of Daly City) maintains the sewer system and disposes of the sewage. All of WWD's water comes from the Hetch Hetchy and local reservoirs.

2.1. Governing Body Format

The WWD is governed by an elected five (5) member Board of Directors, who must be residents of the WWD and registered voters. The Board of Directors appoints the General Manager. The WWD presently employs six (6) full-time employees. Funding comes primarily from water and sewer rates.

The Board of Directors assumes responsibility for adopting this Plan; the General Manager will oversee its implementation.



2.2. Population

The District serves 13,500 customers. The population is expected to remain nearly constant through 2035.

2.3. Assets

WWD has interties connections with the North Coast County Water District (City of Pacifica) and the City of Daly City for emergency water service. The District has more than 24 miles of water lines, an average daily consumption of 1 million gallons, and three (3) steel water storage tanks. The District has a total of 6.3 million gallons of water storage. **Table 1** summarizes the District's critical assets and their values.

Table 1. Westborough Water District Assets

Asset	Value
<i>Property</i>	
3.3 acres of land	\$390,000
<i>Equipment</i>	
Water facilities (24 miles)	\$37,050,000
Sewer facilities (20 miles)	\$24,700,000
Joint use facilities	\$95,000
Maintenance facilities	\$480,000
Water meters	\$940,000
Furniture and equipment	\$160,000
TOTAL	\$63,815,000
<i>Critical Facilities and Infrastructure</i>	
Skyline Tank #1	\$2,160,000
Skyline Tank #2	\$3,040,000
Skyline Tank #3	\$2,460,000
Connection with WWD Water System	\$70,000
WWD Water Pump Station	\$570,000
Skyline Pump Station	\$210,000
WWD District Office (2263 Westborough Boulevard, South San Francisco, CA 94080)	\$1,505,000
Skyline Storage Building	\$620,000
WWD Sewer Pump Station #1 (Avalon)	\$150,000
WWD Sewer Pump Station #2 (District Office)	\$1,060,000
WWD Sewer Pump Station #3 (Rowntree)	\$1,250,000
TOTAL	\$13,095,000



3. CHANGES IN DEVELOPMENT

While WWD provides a stable supply of high-quality, safe drinking water and reliable sewer service, the authority of land use and development changes remains with the local planning departments. Land use planning within the District is performed by the City of South San Francisco.

The District's service area is largely built out, with little new development potential. Since the overwhelming majority of WWD's developed land area is dedicated to residential use, most development projects reviewed by the City involve infill development on scattered vacant lots or significant renovations or redevelopment of existing structures. Commercial development consists of renovating existing shopping areas. Overall, development activity in WWD's service area has been relatively low over the past five (5) years. Development over the next five (5) years is expected to remain low.

3.1. Changes in Priority

WWD'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 WWD's authorities, policies, programs, and resources. Goals and mitigation actions were developed using input from this assessment.

The Local Planning Team assessed WWD'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

WWD relies on the City of South San Francisco to maintain a strong framework of codes, ordinances, and requirements to help mitigate the impacts of the hazards identified in this Plan. **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	No	n/a	n/a	n/a
Capital Improvement Plan	Yes	Local	Westborough Water District	Fiscal Year 2025-2030 Capital Improvement Plan
Floodplain Management / Basin Plan	No	n/a	n/a	n/a
Stormwater Management Plan	No	n/a	n/a	n/a
Open Space Plan	No	n/a	n/a	n/a
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	Yes	Local	Westborough Water District	Emergency Response Plan (2026) Sewer Spill Emergency Response Plan (2024)
Evacuation Plan	No	n/a	n/a	n/a
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	No	n/a	n/a	n/a
Community Wildfire Protection 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.)
Sewer System Management Plan	Yes	Local	Westborough Water District	Updated in July 2025
Regulatory Capability				
Building Code	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Zoning Code	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Subdivision Code	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Flood Damage Prevention Ordinance	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Cumulative Substantial Damage Ordinance	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Freeboard	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Growth Management Ordinance	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Site Plan Review	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Stormwater Management Ordinance	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Municipal Separate Storm Sewer System (MS4)	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Natural Hazard Ordinance	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Post-Disaster Recovery Ordinance	No	n/a	n/a	Responsibility of the County and municipalities, accordingly
Real Estate Disclosure Requirement	No	n/a	n/a	Responsibility of the County and municipalities, accordingly

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	No	n/a
Mutual Aid Agreements	No	n/a
Technical/Staffing Capabilities		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Pakpour Consulting Group (District Engineer)
Engineer(s) or professional(s) trained in building or infrastructure construction practices	Yes	Contractor
Planners or engineers with an understanding of natural hazards	Yes	Pakpour Consulting Group G&E Engineering Systems, Inc.
NFIP Floodplain Administrator	No	n/a
Surveyor(s)	Yes	Triad/Holmes Associates
Personnel skilled or trained in GIS applications	Yes	Pakpour Consulting Group District Staff
A scientist familiar with natural hazards	No	n/a
Warning systems/services	Yes	Emergency Response System will notify each customer by telephone in the event of an emergency if they provide their number to the District Office.
Emergency manager	Yes	General Manager
Grantwriter(s)	No	n/a
Staff with expertise or training in benefit cost analysis	Yes	Pakpour Consulting Group
Professionals trained in conducting damage assessments	Yes	Contractor

4.3. Fiscal Capabilities

Table 4 lists fiscal capabilities available to WWD 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	Yes
User fees for water, sewer, gas, or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	No
Open space acquisition funding programs	No

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	General Manager
Personnel skilled or trained in website development	Yes	General Manager
Hazard mitigation information is available on the jurisdiction’s website	Yes	Emergency Information and Water Conservation sections of the District website
Utilize social media for hazard mitigation education and outreach	Yes	Facebook: Facebook.com/westboroughwater/
Citizen boards or commissions that address issues related to hazard mitigation	No	n/a



Capability	Yes/No	Comments <i>(e.g., position, department, agency, explanation)</i>
Other programs already in place that could be used to communicate hazard-related information	Yes	Water Faucet: WWD Newsletter, distributed periodically (an average of three (3) times per year) Emergency Response System will notify each customer by telephone in the event of an emergency if they provide their number to the District Office
An established warning system for hazard events	Yes	Emergency Response System will notify each customer by telephone in the event of an emergency if they provide their number to the District Office

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 WWD.

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

WWD 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).

- Funding comes primarily through water and sewer rates and a portion of County taxes. The District’s programmed and unprogrammed Capital Improvement Program costs greatly exceed available funding, requiring the District to prioritize projects. To improve funding of mitigation projects, the District needs to:
 - Identify and seek local, state, and federal funding to accelerate Capital Improvement Program projects with high mitigation value.



- Seek to expand its grant writing and management capabilities. This may include hiring dedicated grant professionals or specialized consultants to increase the District's success rate in competing for state and federal hazard mitigation funding.
- Improve allocation of capital funding to prioritize and support the implementation of hazard mitigation projects, including those listed in this LHMP.

5. NATIONAL FLOOD INSURANCE PROGRAM

As a special district, the WWD 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, WWD 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 Response Plan	WWD maintains close alignment between the LHMP and its Emergency Response Plan (ERP). The ERP integrates mitigation considerations into its response actions to reduce the community's risk exposure. The LHMP is currently used as an essential tool to update the District's ERP.
Seismic Vulnerability Assessment	The District prepared a Seismic Vulnerability Assessment in May 2012 to simulate what might realistically happen to the WWD's water supplies following a major earthquake. The results from the assessment are used to identify improvements to the water distribution system and to develop a Seismic Improvement Program as part of a Capital Improvement Program.



Planning Initiative	Current Integration Description
Urban Water Management Plan	The District adopted the latest Urban Water Management Plan (UWMP) in June 2026 and consulted the LHMP. The UWMP focuses on the WWD's ability to meet water demand reliably and of high quality, based on past and current water use. Part of the plan addresses water shortage contingencies and water supply emergency response.

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
Interim Action Plan	The Seismic Improvement Program may take many years to implement. In the interim, the following action items can be considered. The three (3) tanks at the Skyline tank site are all vulnerable to significant damage during a large magnitude earthquake. One (1) approach to mitigate this vulnerability is to lower the water levels in the tanks. The District might look into an intertie with the City of San Bruno, or possibly another intertie that provides access to SFPUC water south of the Baden pump station.
Capital Improvement Program	Capital improvement project proposals will consider hazard mitigation potential as a means of evaluating project prioritization. The District will maintain consistency between the LHMP and the Capital Improvement Program to ensure hazard mitigation is embedded in infrastructure planning.

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 determined that the planning area **did not have unique vulnerabilities or impacts** from any of the County's natural hazards; rather, its vulnerabilities and impacts are consistent with those experienced throughout the County based on the hazards profiled in Volume 1.

- Dam Failure
- Drought
- Earthquake
- Flood (*riverine flooding, urban/flash flooding, coastal flooding*)
- Landslide
- Sea Level Rise
- Severe Weather (*heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog*)
- Tsunami
- Wildfire

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 WWD 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.
Earthquake	The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from earthquakes; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.



Hazard	Vulnerability and Impacts
Flood (<i>riverine flooding, urban/flash flooding, coastal flooding</i>)	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.
Landslide	The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from landslides; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.
Sea Level Rise	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.
Severe Weather (<i>heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog</i>)	The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from severe weather; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.
Tsunami	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.
Wildfire	The Local Planning Team determined that the District does not have unique vulnerabilities or impacts from wildfires; rather, the jurisdiction’s vulnerabilities and impacts are consistent with those experienced throughout the County.

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
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



Hazard	Vulnerability and Impact
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 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



Hazard	Vulnerability and Impact
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



Hazard	Vulnerability and Impact
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.

- Critical facilities such as water infrastructure, including but not limited to reservoirs (tanks), pump stations, regulator stations, interties, and communication towers (repeaters), are vulnerable to the effects of earthquakes. Liquefaction can cause leaks and damage to water facilities, potentially resulting in an insufficient water supply for firefighting during prolonged wildfires.
- Cross-country water mains connecting Williams Court and Williamsburg Court, Wren Court and Wright Court, Unwin Court and Liberty Court, and Appian Way and Waverly Court have the potential to break during an earthquake and cause landslides or property damage to nearby homes.

Any new assets (e.g., new construction in hazard-prone areas) will be built to comply with the latest building codes and standards, and will be mitigated to protect them from identified and anticipated hazards, especially those expected to increase due to climate change.

9. HAZARD RISK RANKING

Table 13 presents the local hazard ranking for WWD 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. Westborough Water 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	18	13	31	62	86
Heavy Rainfall (Severe Weather)	3	12	13	22	47	65
Strong Winds (Severe Weather)	3	9	13	22	44	61
Earthquake	2	18	13	34	65	60
Heat Wave/Extreme Heat (Severe Weather)	3	9	11	20	40	56
Wildfire	2	15	5	33	53	49
Landslide	2	9	9	30	48	44
Severe Thunderstorm (Severe Weather)	2	12	13	20	45	42
Drought	2	6	11	23	40	37
Riverine Flooding (Flood)	2	6	5	28	39	36
Tornado (Severe Weather)	1	6	13	13	32	15
Fog (Severe Weather)	1	6	9	11	26	12
Sea Level Rise	0	0	0	0	0	0
Dam Failure	0	0	0	0	0	0
Coastal Flooding (Flood)	0	0	0	0	0	0
Tsunami	0	0	0	0	0	0

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).

WWD agreed to 11 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. WWD Mitigation Actions Summary

Status		Mitigation Action Total	
Continuing		2	
In Progress		8	
Not Yet Started		1	
New		0	
TOTAL		11	
Completed		0	
No Longer Needed		0	
Mitigation Actions per Hazard			
Dam Failure	n/a	Sea Level Rise	n/a
Drought	7	Severe Weather <i>(heavy rainfall, severe thunderstorms, strong winds, tornadoes, heat wave/extreme heat, fog)</i>	5
Earthquake	9	Tsunami	n/a
Flood <i>(riverine flooding, urban/flash flooding, coastal flooding)</i>	5	Wildfire	6
Landslide	8		

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

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Mitigation Action	Where appropriate, support retrofitting, purchasing, or relocating structures located in high-hazard areas, prioritizing those that have experienced repetitive losses and/or are in high- or medium-risk hazard areas.				
Action Number	WWD-1	Goal(s) Addressed	1, 4	Prioritization Score	28/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Drought, 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	Westborough Water District (General Manager)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, FMA, Capital Improvement Program funds		
Additional Details (optional)					

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Mitigation Action	Integrate the San Mateo County Local Hazard Mitigation Plan into other District plans and programs that support infrastructure investment options, including, but not limited to, the Capital Improvement Program.				
Action Number	WWD-2	Goal(s) Addressed	1, 4	Prioritization Score	31/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Drought, 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	Westborough Water District (General Manager)				
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	Actively participate in the Hazard Mitigation Plan maintenance protocols outlined in Volume 1 of the San Mateo County Local Hazard Mitigation Plan.				
Action Number	WWD-3	Goal(s) Addressed	1, 2, 3, 4, 5	Prioritization Score	31/40
Year Added to the Plan	2016	Timeline (estimated)	Ongoing	Implementation Priority	High
Hazard(s) Mitigated	Drought, Earthquake, Flood, Landslide, Severe Weather, Wildfire				
Project Status	Continuing	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Westborough Water District (General Manager)				
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	Develop and implement a program to capture perishable data after significant incidents (e.g., high-water marks, preliminary damage estimates, damage photos) in a database to support future mitigation efforts, including implementing and enhancing hazard mitigation, climate action, and other plans.				
Action Number	WWD-4	Goal(s) Addressed	1, 3, 4, 5	Prioritization Score	26/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Drought, Earthquake, Flood, Landslide, Severe Weather, Wildfire				
Project Status	Not Yet Started	<i>If No Longer Needed, provide reason.</i>	n/a		
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Westborough Water District (General Manager)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), HMGP		
Additional Details (optional)					

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Mitigation Action	Support countywide hazard mitigation actions and initiatives identified in the San Mateo County Local Hazard Mitigation Plan, specifically those taking place within the District.				
Action Number	WWD-5	Goal(s) Addressed	1, 2, 5	Prioritization Score	28/40
Year Added to the Plan	2016	Timeline (estimated)	Ongoing	Implementation Priority	Medium
Hazard(s) Mitigated	Drought, Earthquake, Flood, Landslide, Severe Weather, Wildfire				
Project Status	Continuing	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Low				
Lead Agency / Organization	Westborough Water District (General Manager)				
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	Acquire and install emergency backup power systems (e.g., generators) for District critical facilities and infrastructure (e.g., District Office and pump stations) that lack adequate backup power. This will allow for continuity of operations and reduce the impact on service delivery during and after an emergency or major disaster.				
Action Number	WWD-6	Goal(s) Addressed	1, 4	Prioritization Score	27/40
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)	High				
Lead Agency / Organization	Westborough Water District (General Manager)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), Capital Improvement Program funds		
Additional Details (optional)	The District utilizes a Volvo Penta generator situated in the parking lot of the District's office. Monthly testing is conducted, and records of these tests are maintained in a log.				

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Mitigation Action	Seismically retrofit or replace vulnerable water tanks (reservoirs) to ensure structural integrity during an earthquake event and maintain compliance with State and Federal safety standards.				
Action Number	WWD-7	Goal(s) Addressed	1, 4	Prioritization Score	31/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Earthquake, Landslide				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Westborough Water District (General Manager)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	Medium	Potential Funding Source	General Fund (Staff Time), HMGP, Capital Improvement Program funds		
Additional Details (optional)					

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Mitigation Action	Install specially-engineered pipelines in areas subject to faulting, liquefaction, earthquake-induced landsliding, or other earthquake hazards.				
Action Number	WWD-8	Goal(s) Addressed	1, 4	Prioritization Score	28/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Earthquake, Landslide				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Westborough Water District (General Manager)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, Capital Improvement Program funds		
Additional Details (optional)					

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Mitigation Action	Relocate water mains in cross-country areas to reduce the impact on buildings and critical facilities that could result in landslides or property damage.				
Action Number	WWD-9	Goal(s) Addressed	1, 4	Prioritization Score	31/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	High
Hazard(s) Mitigated	Earthquake, Landslide				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	High				
Lead Agency / Organization	Westborough Water District (General Manager)				
Supporting Agency / Organization (If applicable)	n/a				
Additional Participating Jurisdictions (If Applicable)	n/a				
Estimated Cost	High	Potential Funding Source	General Fund (Staff Time), HMGP, Capital Improvement Program funds		
Additional Details (optional)					

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Mitigation Action	Enhance the Water Conservation Program by adding a public education and outreach campaign to inform residents about water-saving techniques to help mitigate drought impacts. This initiative will enable the District to educate its customers about the importance of water conservation and encourage them to implement water-saving techniques in their homes and businesses.				
Action Number	WWD-10	Goal(s) Addressed	2, 4, 5	Prioritization Score	28/40
Year Added to the Plan	2016	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)	High				
Lead Agency / Organization	Westborough Water District (General Manager)				
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	Establish and sustain defensible space around the District's critical facilities and infrastructure to reduce structural and other wildfire vulnerabilities.				
Action Number	WWD-11	Goal(s) Addressed	1, 3, 4	Prioritization Score	28/40
Year Added to the Plan	2016	Timeline (estimated)	4 to 5 Years	Implementation Priority	Medium
Hazard(s) Mitigated	Drought, Wildfire				
Project Status	In Progress	If No Longer Needed, provide reason.		n/a	
Benefits (Loss Avoided)	Medium				
Lead Agency / Organization	Westborough Water District (General Manager)				
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)					



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	Unlikely	There is little to no probability of a significant occurrence, or the recurrence interval is greater than every 100 years.	0	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>)	Unlikely	There is little to no probability of a significant occurrence, or the recurrence interval is greater than every 100 years.	0	N/A
Landslide	Medium	A significant hazard event is likely to occur within 25 years.	2	N/A
Sea Level Rise	Unlikely	There is little to no probability of a significant occurrence, or the recurrence interval is greater than every 100 years.	0	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	Unlikely	There is little to no probability of a significant occurrence, or the recurrence interval is greater than every 100 years.	0	N/A



Hazard Event	Probability of Occurrence		Probability Factor	Weighted Factor
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	Unlikely	Historical and/or probabilistic models/studies for this hazard indicate the possibility of little to no intensity.	0	3	0
	Catastrophic	Unlikely	Virtually no probability that this hazard could be catastrophic.	0	3	0
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	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
Coastal Flooding (Flood)	Extent/Severity	Unlikely	Historical and/or probabilistic models/studies for this hazard indicate the possibility of little to no intensity.	0	3	0
	Catastrophic	Unlikely	Virtually no probability that this hazard could be catastrophic.	0	3	0

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Hazard Event	Extent Factor	Extent		Extent Factor	Weighted Factor	Score
Landslide	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
Sea Level Rise	Extent/Severity	Unlikely	Historical and/or probabilistic models/studies for this hazard indicate the possibility of little to no intensity.	0	3	0
	Catastrophic	Unlikely	Virtually no probability that this hazard could be catastrophic.	0	3	0
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	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
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



Hazard Event	Extent Factor	Extent		Extent Factor	Weighted Factor	Score
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
Tsunami	Extent/Severity	Unlikely	Historical and/or probabilistic models/studies for this hazard indicate the possibility of little to no intensity.	0	3	0
	Catastrophic	Unlikely	Virtually no probability that this hazard could be catastrophic.	0	3	0
Wildfire	Extent/Severity	Medium	Historical and/or probabilistic models/studies for this hazard indicate the possibility of a medium-intensity incident.	2	3	6
	Catastrophic	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	Population Exposure	No Vulnerability	None of the population is exposed to the hazard.	0	3	0
	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
Drought	Population Exposure	High	30% or more of the population is exposed to the hazard.	3	3	9
	Property Exposure	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	Changes in Development	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
Earthquake	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
Riverine Flooding (Flood)	Population Exposure	Low	14% or less of the population is exposed to the hazard.	1	3	3
	Property Exposure	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	Changes in Development	Low	Changes in development have increased the community's exposure to the hazard by 4% or less.	1	1	1
Urban/Flash Flooding (Flood)	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
Coastal Flooding (Flood)	Population Exposure	No Vulnerability	None of the population is exposed to the hazard.	0	3	0
	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
Landslide	Population Exposure	Medium	15% to 29% of the population is exposed to the hazard.	2	3	6
	Property Exposure	Medium	10% to 24% of the total assessed property value is exposed to a hazard.	2	1	2
	Changes in Development	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
Sea Level Rise	Population Exposure	No Vulnerability	None of the population is exposed to the hazard.	0	3	0
	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
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	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	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

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Hazard Event	Vulnerability Factor	Vulnerability		Vulnerability Factor	Weighted Factor	Score
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
Strong Winds (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
Tsunami	Population Exposure	No Vulnerability	None of the population is exposed to the hazard.	0	3	0
	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
Wildfire	Population Exposure	Low	14% or less of the population is exposed to the hazard.	1	3	3
	Property Exposure	Low	9% or less of the total assessed property value is exposed to a hazard.	1	1	1
	Changes in Development	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	No Impact	Populations exposed to this hazard are not likely to experience significant adverse impacts.	0	3	0
	Underserved Population	No Impact	Underserved populations exposed to the hazard are not likely to experience significant adverse/disproportionate impacts.	0	3	0
	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	No Impact	Virtually no significant economic impact.	0	1	0
	Environmental	No Impact	No environmental impacts from a significant event are likely.	0	1	0
	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	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
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	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	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
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	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	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
Coastal Flooding (Flood)	Population and Life Safety	No Impact	Populations exposed to this hazard are not likely to experience significant adverse impacts.	0	3	0
	Underserved Population	No Impact	Underserved populations exposed to the hazard are not likely to experience significant adverse/disproportionate impacts.	0	3	0
	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	No Impact	Virtually no significant economic impact.	0	1	0
	Environmental	No Impact	No environmental impacts from a significant event are likely.	0	1	0
	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	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
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	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
Sea Level Rise	Population and Life Safety	No Impact	Populations exposed to this hazard are not likely to experience significant adverse impacts.	0	3	0
	Underserved Population	No Impact	Underserved populations exposed to the hazard are not likely to experience significant adverse/disproportionate impacts.	0	3	0
	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	No Impact	Virtually no significant economic impact.	0	1	0
	Environmental	No Impact	No environmental impacts from a significant event are likely.	0	1	0
	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	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
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 (<i>Severe Weather</i>)	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	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	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	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	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	No Impact	Populations exposed to this hazard are not likely to experience significant adverse impacts.	0	3	0
	Underserved Population	No Impact	Underserved populations exposed to the hazard are not likely to experience significant adverse/disproportionate impacts.	0	3	0
	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	No Impact	Virtually no significant economic impact.	0	1	0
	Environmental	No Impact	No environmental impacts from a significant event are likely.	0	1	0
	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	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	
Wildfire	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	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]