

# 12. CITY OF MENLO PARK

## 12.1 LOCAL HAZARD MITIGATION PLANNING TEAM

### Primary Point of Contact

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This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 12-1.

**Table 12-1. Local Mitigation Planning Team Members**

Name	Title
Chuck Andrews	Assistant Community Development Director
Calvin Chan	Senior Planner
Joanna Chen	Management Analyst I
Brian Henry	Assistant Public Works Director
Chris Lamm	Assistant Public Works Director
Scott Mackdanz	Police Dept. Administrative Sergeant
Justin Murphy	Deputy City Manager
Nicole Nagaya	Public Works Director
Ryan Zollicoffer	Fire District Disaster Response Manager

## 12.2 JURISDICTION PROFILE

### 12.2.1 Location and Features

Menlo Park is a city of beautiful, tree-lined neighborhoods and active commercial districts. Located conveniently between the major metropolitan areas of San Francisco and San Jose, Menlo Park is home to over 35,000 residents in its approximately 19 square miles. The stunning natural surroundings of the city afford views of the San Francisco Bay to the east and the Pacific Coast Range to the west.

The city's proximity to Stanford University and Menlo College provide a multitude of academic, cultural, and athletic event opportunities. Located in the heart of Menlo Park is a downtown featuring unique and upscale shops and restaurants, though many local businesses have struggled during the COVID-19 pandemic in the last two years. Known worldwide as the "Capital of Venture Capital," Menlo Park is well situated to benefit from and

shape new technologies originating from Silicon Valley. The city is home to such notable employers as SRI, Facebook, and Pacific Biosciences.

The City of Menlo Park climate is mild during the summer when temperatures tend to be in the 60's and cool during the winter when temperatures tend to be in the 50's. The warmest month of the year is July with an average maximum temperature of 78 degrees Fahrenheit, while the coldest month of the year is December with an average minimum temperature of 39 degrees Fahrenheit. On average, there are 265 sunny days per year with 56 days of measurable precipitation.

## 12.2.2 History

In 1854, Menlo Park received its official name when two Irishmen, Dennis J. Oliver and D. C. McGlynn, whose wives were sisters, purchased 1,700 acres (some sources say it was 640 acres) bordering County Road, now El Camino Real, and built two houses with a common entrance.

Across the drive, they erected a huge wooden gate with tall arches on which the name of their estate was printed in foot-high letters: "MENLO PARK," with the date, August 1854, underneath it. When the railroad came through in 1863, this station had no name, it was just the end of the line, but it needed a designation. During a discussion about the choice of a name, a railroad official looked over at the gates and decided that "MENLO PARK" would be appropriate, and so the name was officially adopted. This station is now California State Landmark No. 955, the oldest California station in continuous operation.

On March 23, 1874, Menlo Park became the second incorporated city in San Mateo County, although only for a short time. The purpose was to provide a quick way to raise money for road repairs.

This incorporation, which included Fair Oaks (later Atherton) and Ravenswood (later East Palo Alto) lasted only until 1876. Little occurred to change the rural flavor of the community until the first World War when, almost overnight, Menlo Park was populated by 43,000 soldiers in training at Camp Fremont, on land which extended from Valparaiso Avenue to San Francisquito Creek, and El Camino Real to the Alameda de las Pulgas, with the Base Hospital and other facilities on Willow Road where the Veterans Administration Medical Center now stands.

Following the war, enough service center activity remained to prompt an effort to reincorporate Menlo Park in 1923 with much the same boundaries as the earlier town. Incorporation planning involving Menlo Park and Atherton culminated in a dramatic race to the County Courthouse to file differing plans. Atherton representatives arrived only minutes before those from Menlo Park who had wished to include Atherton in their plans. Final incorporation of Menlo Park took place in November 1927.

A history of redlining and racial inequity will be developed for the City's Environmental Justice element and can be incorporated here in the next update of the hazard mitigation plan.

## 12.2.3 Governing Body Format

Menlo Park is a general law city under the State of California and operates under the Council-Manager form of government. The City Council is the city's governing body for the City of Menlo Park. In general, municipal elections, its members are elected from five districts to four-year overlapping terms. The mayor and mayor pro tempore (vice mayor) each serve one-year terms and are selected annually by the City Council at its first regular

meeting in December. The Mayor, who represents the City of Menlo Park at ceremonial and public functions, also serves as the presiding officer of the City Council.

The City Council appoints the City Manager and the City Attorney. The City is organized into operating departments including Administrative Services, City Manager’s Office, Community Development, Library and Community Services, Police, and Public Works. The City of Menlo Park assumes responsibility for the adoption of this plan; the Community Development, Public Works, and Police Departments will oversee its implementation.

## 12.3 CURRENT TRENDS

### 12.3.1 Population

According to the California Department of Finance, the population of Menlo Park as of January 2020 was 35,254 persons. Since 2016, the population has grown at an average annual rate of 0.99 percent.

### 12.3.2 Development

Table 12-2 summarizes development trends in the performance period since the preparation of the previous hazard mitigation plan, as well as expected future development trends.

**Table 12-2. Recent and Expected Future Development Trends**

Criterion	Response
<p>Has your jurisdiction annexed any land since the preparation of the previous hazard mitigation plan? <i>If yes, give the estimated area annexed and estimated number of parcels or structures.</i></p>	No
<p>Is your jurisdiction expected to annex any areas during the performance period of this plan? <i>If yes, describe land areas and dominant uses. If yes, who currently has permitting authority over these areas?</i></p>	<p>None</p> <p>The City has had interest from the West Menlo Park triangle area to be annexed by the City. The area represents approximately 14 acres of residential property. The City does not believe the area has been identified as any type of hazard risk, but additional investigations would be required prior to annexation. Reference Staff Report 11/5/2019 (19-230-CC).</p>
<p>Are any areas targeted for development or major redevelopment in the next five years? <i>If yes, briefly describe, including whether any of the areas are in known hazard risk areas</i></p>	<p>Yes</p> <p>Menlo Park has ongoing development in both the Bayfront and Downtown areas of the city. Of these two areas, Bayfront is more prone to hazard risks, such as flooding and sea level rise. Projects in the Bayfront area must comply with special hazard flood area construction requirements as required by City ordinance. Development projects can be found at: <a href="https://www.menlopark.org/projects">https://www.menlopark.org/projects</a>.</p> <p>The City is in the process of updating the General Plan Housing Element for the planning period of 2023-2031, which is expected to identify additional areas for residential development.</p>

Criterion	Response					
	2016	2017	2018	2019	2020	
How many permits for new construction were issued in your jurisdiction since the preparation of the previous hazard mitigation plan?	Single-Family	19	32	44	54	50
	Multi-Family	1	10	1	3	3
	Other (commercial, mixed use, etc.)	1	5	7	8	7
	<b>Total</b>	<b>21</b>	<b>47</b>	<b>52</b>	<b>65</b>	<b>60</b>
Provide the number of new-construction permits for each hazard area or provide a qualitative description of where development has occurred.	<ul style="list-style-type: none"> <li>• Special Flood Hazard Areas: 74</li> <li>• Landslide: 0</li> <li>• High Liquefaction Areas: 162</li> <li>• Tsunami Inundation Area: 0</li> <li>• Wildfire Risk Areas: 0</li> </ul> These numbers are cumulative since 2016					
Describe the level of buildout in the jurisdiction, based on your jurisdiction’s buildable lands inventory. If no such inventory exists, provide a qualitative description.	Not applicable – There is no more land to be developed in non-hazard areas.					

## 12.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The “Analysis of Mitigation Actions” table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 12-3.
- Development and permitting capabilities are presented in Table 12-4.
- An assessment of fiscal capabilities is presented in Table 12-5.
- An assessment of administrative and technical capabilities is presented in Table 12-6.
- An assessment of education and outreach capabilities is presented in Table 12-7.
- Information on National Flood Insurance Program (NFIP) compliance is presented in Table 12-8.
- Classifications under various community mitigation programs are presented in Table 12-9.
- The community’s adaptive capacity for the impacts of climate change is presented in Table 12-10.

**Table 12-3. Planning and Regulatory Capability**

	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
<b>Codes, Ordinances, &amp; Requirements</b>				
<b>Building Code</b>	Yes	No	Yes	No
<b>Comment:</b> Menlo Park Municipal Code, Title 12, CA Building Code 2019. The Community Development, Building and Planning Divisions, adopted the code on 12/17/2019 and it became effective on 1/1/2020.				
<b>Zoning Code</b>	Yes	No	No	Yes
<b>Comment:</b> Menlo Park Municipal Code, Title 16. The Community Development, Planning Division, implements this code. The Zoning Ordinance was adopted in November 2016.				
<b>Subdivisions</b>	Yes	No	No	No
<b>Comment:</b> Menlo Park Municipal Code, Title 15, adopted in 1977. The Community Development, Planning Division, and the Public Works, Engineering Division, implement this code.				
<b>Stormwater Management</b>	Yes	Yes	Yes	Yes
<b>Comment:</b> Menlo Park Municipal Code, Title 7.42, adopted in 1994. Stormwater Management Program complies with the California Regional Water Quality Control Board San Francisco Bay Region Municipal Regional Stormwater NPDES Permit. Updated permit requirements were last issued in November 2015, and further updates are currently being considered and are expected to be adopted in late 2021 or early 2022. The Public Works, Engineering & Maintenance Divisions, and the City Manager's Office, Sustainability Programs, implement this permit.				
<b>Real Estate Disclosure</b>	No	No	Yes	No
<b>Comment:</b> California Civil Code Section 1103 <a href="https://leginfo.ca.gov/faces/codes_displaySection.xhtml?sectionNum=1103.&amp;lawCode=CIV">https://leginfo.ca.gov/faces/codes_displaySection.xhtml?sectionNum=1103.&amp;lawCode=CIV</a>				
<b>Growth Management</b>	Yes	No	No	Yes
<b>Comment:</b> Between 2015 and 2020, Menlo Park saw a population increase of 5.4 percent (compared to a 1.5 percent increase countywide) and an increase in the number of households of 5.6 percent (compared to a 1.5 percent increase countywide). Average persons per household remained relatively the same for both Menlo Park and countywide, with Menlo Park having 2.64 persons per household and 2.88 persons per household countywide in 2020 (CA Department of Finance, E-5 Report).				

According to Association of Bay Area Governments (ABAG) projections for the nine counties that make up the Bay Area, total population increased 4.3 percent between 2015 and 2020, and total households increased 4.4 percent. Average persons per household remained the same during this time period, at 2.69 persons per household (ABAG Projections 2040).

The city's development pipeline includes 3,878 residential units, 4.9 million square feet of office space, 317,000 square feet of retail space, 40,000 square feet of school space, and 642 hotel rooms (December 2020).

In early 2021, Menlo Park began to update the General Plan Housing Element for the sixth cycle of State review, covering the time period of 2023-2031. In each Housing Element, a city must plan for its fair share of the region's housing need for all income categories. The City of Menlo Park is exploring eight potential housing opportunity site strategies to meet the Regional Housing Need Allocation, informed by extensive community outreach and engagement.

- Reusing fifth cycle Housing Element sites that have not redeveloped with housing
- Consideration of pipeline projects
- Religious facilities pursuant to AB 1851
- Redeveloping commercial sites
- New housing in/around El Camino Real and the Downtown area
- Encouraging Accessory Dwelling Unit production
- Exploring additional housing types in traditionally single-family residential areas
  - Using publicly owned land for housing.

The Housing Element Update is anticipated for adoption in the winter of 2022 (Housing Commission August 4, 2021 staff report: [https://www.menlopark.org/DocumentCenter/View/29271/D2-20220804\\_Housing-Element-update-review?bidId=](https://www.menlopark.org/DocumentCenter/View/29271/D2-20220804_Housing-Element-update-review?bidId=)).

	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
<b>Post-Disaster Recovery</b>	Yes	No	No	Yes
<p><b>Comment:</b> The City does not have a specific Municipal Code or ordinance for Post Disaster Recovery. The City activates the emergency operations center for oversight and tasks related to recovery actions and activities working alongside partner agencies. The City Emergency Operation Plan addresses establishing a Recovery Task Force to commence planning for transition to long term recovery. The City is also working with the County on turning the Countywide Debris Management Plan into a stand-alone jurisdictional annex. The City will align its recovery actions with the National and State Disaster Recovery Framework Plan.</p> <p>Menlo Park Municipal Code Chapter 2.44, Emergency Services:  <a href="https://www.codepublishing.com/CA/MenloPark/html/MenloPark02/MenloPark0244.html">https://www.codepublishing.com/CA/MenloPark/html/MenloPark02/MenloPark0244.html</a></p>				
<b>Site Plan Review</b>	Yes	No	No	No
<p><b>Comment:</b> The Building Division of Community Development reviews all site plans for conformance to the Menlo Park Municipal Code, Title 12. The Planning Division of Community Development reviews all site plans for conformance to the Menlo Park Municipal Code, Title 15, and Title 16. The Engineering Division of the Public Works Department reviews site plans for all projects for conformance to the Menlo Park Municipal Code, Title 7.</p>				
<b>Environmental Protection</b>	Yes	No	No	Yes
<p><b>Comment:</b> The City has several ordinances and policies related to environmental protection:</p> <ul style="list-style-type: none"> <li>• In 2015, the Integrated Pest Management Policy was updated. Currently, all City parks are herbicide- and pesticide-free.</li> <li>• In January 2020, the City adopted reach codes for new construction to reduce greenhouse gas emissions from the building sector and to encourage the use of renewable and clean energy. Menlo Park residents receive energy from Peninsula Clean Energy, which provides a minimum of 50% renewable energy and 90% greenhouse gas (carbon) free electricity at a cost slightly less than PG&amp;E. Electrifying buildings would maximize the community’s renewable power available and reduce GHG emissions by slowly phasing out the use of natural gas.</li> <li>• The City’s Climate Action Plan was adopted in July 2020 and several of its goals are related to environmental protection. Two of the goals are related to electric vehicles: to promote the purchase of electric vehicles and increase EV charging stations in multi-family and commercial buildings; and to reduce greenhouse gas emissions and improve air quality. The City adopted a Sustainable Vehicle Fleet Policy to increase the number of zero-emission City fleet vehicles. Another goal is to eliminate the use of natural gas from municipal operations. As a pilot program in 2021, Public Works maintenance staff is in the process of converting gas-powered maintenance equipment to electric to reduce noise pollution and greenhouse gas emissions.</li> </ul>				
<b>Flood Damage Prevention</b>	Yes	No	No	Yes
<p><b>Comment:</b> Menlo Park Municipal Code, Title 12.42, adopted in 1988 and amended in 2016. The Public Works Department, Engineering Division, implements this Code section.</p>				
<b>Emergency Management</b>	Yes	No	Yes	Yes
<p><b>Comment:</b> Menlo Park Municipal Code, Chapter 2.44 Emergency Services  <a href="https://www.codepublishing.com/CA/MenloPark/html/MenloPark02/MenloPark0244.html">https://www.codepublishing.com/CA/MenloPark/html/MenloPark02/MenloPark0244.html</a></p>				
<b>Climate Change</b>	Yes	Yes	Yes	Yes
<p><b>Comment:</b> The 2030 Climate Action Plan (CAP) was adopted in July 2020. One of the CAP goals and City Council 2021 work plan priority projects is to develop a climate adaption plan to address sea level rise and flooding. Staff plans to:</p> <ul style="list-style-type: none"> <li>• Update the Safety Element in Menlo Park’s General Plan to bring it into compliance with recent changes in General Plan law, including SB 379</li> <li>• Await notification on the SAFER Bay grant application from the FEMA Building Resilient Infrastructure and Communities program</li> <li>• Continue progress on identifying funding and partnership opportunities for implementing SAFER Bay; and</li> <li>• Continue to participate in and monitor with San Mateo County Flood and Sea Level Rise District.</li> </ul>				

	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
<b>Planning Documents</b>				
<b>General Plan</b>	Yes	No	Yes	Yes
<i>Is the plan compliant with Assembly Bill 2140?</i> Yes				
<b>Comment:</b> The City's General Plan can be accessed at: <a href="https://www.menlopark.org/146/General-Plan">https://www.menlopark.org/146/General-Plan</a> . The Open Space/Conservation, Noise, and Safety Elements (adopted May 21, 2013) address safety and emergency preparedness, specifically Section IV (Safety Goals, Policies, and Implementing Programs) and Section VII (Safety Background). The Plan "provides policies and standards for the type, location, intensity and design of development in areas of potential hazards" (Safety Goal S1).				
Other General Plan Elements include: Land Use and Circulation Elements (adopted November 29, 2016) and the 2015-2023 Housing Element (adopted April 1, 2014). The City is in the process of updating the Housing Element for the period of 2023-2031 and will concurrently prepare updates to the Safety Element and the preparation of a new Environmental Justice Element.				
<b>Capital Improvement Plan</b>	Yes	No	No	Yes
<i>How often is the plan updated?</i> Annually				
<b>Comment:</b> The Capital Improvement Plan involves the implementation of infrastructure projects, such as the upgrade of storm water pumping facilities and the construction of emergency wells, to improve the City's resiliency to hazards. One emergency well is located at the Corporation Yard and is substantially complete. The City is waiting for permits from the state before it can be operable. Other sites, such as SRI, are currently being explored. Planning is made on a 5 year basis, with annual updates.				
<b>Disaster Debris Management Plan</b>	Yes	No	No	Yes
<b>Comment:</b> The City is also working with the County on turning their Countywide Debris Management Plan into a stand-alone debris management annex for Menlo Park. According to the City's franchise agreement, Recology may provide emergency services, such as assistance handling, salvaging, processing, composting, recycling materials, or disposing solid waste after a major accident, disruption, or natural calamity.				
<b>Floodplain or Watershed Plan</b>	No	Yes	No	No
<b>Comment:</b> The City maintains FEMA floodplain maps and provides information related to flood zones to the public when requested.				
<b>Stormwater Plan</b>	Yes	Yes	No	Yes
<b>Comment:</b> The engineering division is in the process of updating its 2003 stormwater master plan. The plan, when completed, will model the entire City storm drain network and identify areas vulnerable to localized flooding and identify capital projects to mitigate the flooding in these areas. The plan also identifies measures to comply with State mandated requirements under the NPDES permitting requirements.				
<b>Urban Water Management Plan</b>	Yes	Yes	Yes	No
<b>Comment:</b> The City will be updating its 2015 UWMP with a 2020 UWMP by July 1, 2021. The plan additionally identifies water conservation measures that will be taken in the event of a drought with 'stages' identified at 10%, 20%, 30%, 40%, 50%, and greater than 50% reduction.				
<b>Economic Development Plan</b>	Yes	No	No	No
<b>Comment:</b> The City's Economic Development Plan (adopted July 2015) can be accessed at: <a href="https://www.menlopark.org/1123/Economic-development-plan-and-goals">https://www.menlopark.org/1123/Economic-development-plan-and-goals</a> . The Plan consists of three main elements: a Comparative Economic Advantages Study (CEAS), the Goals, and a series of Strategic Policy Recommendations towards implementing the Goals. The CEAS lays the foundation for the Economic Development Plan by outlining Menlo Park's economic advantages, opportunities, and challenges in relation to other similar cities in the Silicon Valley region and the broader San Francisco Bay Area.				

	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
<b>Habitat Conservation Plan</b>	No	No	No	No
<p><b>Comment:</b> While the City does not have a Habitat Conservation Plan, the City amended its Heritage Tree Ordinance in 2019 and implemented it on July 1, 2020, to help preserve the Menlo Park’s urban canopy. In 2021, Menlo Park has been recognized as a Tree City USA for 21 years and as a member of the Arbor Day Foundation’s “Growth” group for 5 years. The City also partners with Canopy, a nonprofit organization, to help plant street trees around the neighborhoods to provide shade, habitat for the wildlife, and add beautification in the area.</p> <p>As part of the South Bay Salt Pond Restoration project, the Ravenswood Ponds Levee Maintenance and Habitat Enhancement project is currently underway and will enhance the habitat environment at the Refuge’s Ravenswood Ponds, on lands south of Bedwell Bayfront Park.</p> <p>The Open Space/Conservation Element of the General Plan combines the Open Space and Conservation Elements required by State law. Open Space issues include policies and programs to maintain, expand and improve Menlo Park’s open space and recreation areas (including parks) while Conservation institutes policies and programs to conserve natural resources. Preservation of scenic, habitat, and recreational resources in Menlo Park is key to retaining the city’s special sense of place. Among its many natural features, Menlo Park is known for its high-quality active and passive recreation areas, including Bedwell Bayfront Park, which is a regional draw. Menlo Park highly values ongoing restoration and conservation efforts in the Baylands, which provide habitat for a wide variety of plants and animals in the Don Edwards National Wildlife Refuge.</p> <p>The Zoning Code (Municipal Code Title 16) includes an Open Space and Conservation District (Chapter 16.48). The purpose and intent of this district is:</p> <ul style="list-style-type: none"> <li>• To protect the public health, safety and welfare</li> <li>• To protect and preserve open space land as a limited and valuable resource</li> <li>• To assure its continued availability for the following: As agricultural land, scenic land, recreation land, conservation, or natural resource land; for the containment of urban sprawl and the structuring of urban development, and for the retention of land in its natural or near natural state to protect life and property in the community from the hazards of fire, flood, and seismic activity; and</li> <li>• To coordinate with and carry out federal, state, regional, county and city open space plans.</li> </ul>				
<b>Shoreline Management Plan</b>	Yes	Yes	No	Yes
<p><b>Comment:</b> The City of Menlo Park shoreline is subject to San Francisco Bay Conservation &amp; Development Commission regulations. The City does not have a Shoreline Management Plan; however, the City has several ongoing projects to help manage the risks associated with the shoreline along the Bayfront Canal-Atherton Channel and the former salt ponds.</p> <ul style="list-style-type: none"> <li>• The SAFER Bay project objective is to protect against 100-year flood, remove properties from FEMA floodplain, sustain marsh habitat, and facilitate marsh restoration. The plan identifies protection measures for 3-feet of sea level rise.</li> <li>• The FEMA Building Resilience Infrastructure and Communities (BRIC) grant project would provide levee improvements along the majority of Menlo Park’s shoreline. The grant awards up to \$50 million, but the project cost estimate is \$66 million, including matching funds from private partners. This would help provide flood protection and sea level rise resiliency while preserving habitat restoration of over 550 acres of former salt ponds. If awarded, the estimated project timeline is five years, including design and construction.</li> <li>• The Bayfront Canal and Atherton Channel Flood Management and Restoration project is anticipated to begin construction this year (2021) and involves installing underground pipes connecting Bayfront Canal to the Ravenswood Ponds to reduce the impact of flooding.</li> <li>• One of City Council’s 2021 work plan project is to develop a climate adaption plan.</li> </ul>				
<b>Community Wildfire Protection Plan</b>	No	No	No	No
<p><b>Comment:</b> The Fire District provides fire suppression and fire protection services to the City of Menlo Park. The California Department of Forestry and Fire Protection does not acknowledge the City of Menlo Park as being in an area known to be considered as a “wildland urban interface” environment. The Fire District boundaries do not warrant a Community Wildfire Protection Plan.</p>				
<b>Forest Management Plan</b>	No	No	No	No
<p><b>Comment:</b> The Menlo Park Fire District provides fire suppression and fire protection services to the City of Menlo Park. The California Department of Forestry and Fire Protection (Cal Fire) does not acknowledge the City of Menlo Park as being in an area known to be considered as a “wildland urban interface” environment. The Fire District boundaries do not warrant a Forest Management Plan.</p>				



	Local Authority	Other Jurisdiction Authority	State Mandated	Integration Opportunity?
<b>Climate Action Plan</b>	Yes	No	Yes	Yes
<b>Comment:</b> The purpose of the Climate Action Plan (CAP) is to present researched strategies that will help reduce greenhouse gas emissions originating in Menlo Park, based on the findings of the City's greenhouse gas emissions inventory analysis that is completed annually. The plan provides strategies that may be implemented over the next few years by the City, its residents, and its businesses. The CAP is updated every year as research continues to provide more emissions reduction data and as new technologies arise and economic conditions change.				
The Menlo Park City Council adopted the 2030 Climate Action Plan (CAP) in July 2020 and approved amendments to it in April 2021. The CAP outlines six goals to reach zero carbon by 2030. For 2021, one of the City Council priorities is to explore policy/program options to convert 95 percent of existing buildings to all-electric by 2030. The remaining CAP goals are to: <ul style="list-style-type: none"> <li>• Increase electric vehicle ownership and decrease gasoline sales</li> <li>• Increase access to EV charging infrastructure in multi-family and commercial properties</li> <li>• Reduce vehicle miles traveled by 25 percent or an amount recommended by the Complete Streets Commission</li> <li>• Eliminate the use of fossil fuels from municipal operations; and</li> <li>• Develop a climate adaption plan.</li> </ul>				
<b>Emergency Operation Plan</b>	Yes	No	Yes	Yes
<b>Comment:</b> City adopted an Emergency Operation Plan in 2014. The plan still aligns with the National Incident Management System (NIMS) and the California Standardized Emergency Management System (SEMS). The Plan provides the City of Menlo Park Emergency Operations Center (EOC) responders with procedures, documentation, and user friendly checklists to effectively manage emergencies, and it also provides detailed information of supplemental requirements such as Public Information, Damage Assessment, and Recovery Operations.				
<b>Threat &amp; Hazard Identification &amp; Risk Assessment (THIRA)</b>	Yes	Yes	No	Yes
<b>Comment:</b> The City utilizes the Local Hazard Mitigation Plan and the Fire District's Community Risk Assessment: Standards of Coverage report to support the THIRA process. A consultant has not been selected to conduct an independent THIRA for the City.				
<b>Post-Disaster Recovery Plan</b>	No	Yes	No	Yes
<b>Comment:</b> The City Emergency Operation Plan addresses establishing a Recovery Task Force to commence planning for transition to long term recovery. The City is also working with the County on turning their Countywide Debris Management Plan into a stand-alone jurisdictional annex. The City will align its recovery actions with the National and State Disaster Recovery Framework Plan. The City is working toward developing a stand-alone Post Disaster Recovery Plan. City staff have been assigned training in G270 Disaster Recovery as part of their State EOC Credentialing Training Plan.				
<b>Continuity of Operations Plan</b>	Yes	No	No	Yes
<b>Comment:</b> Within the City of Menlo Park, the following offices: Human Resources, City Clerk, and City Manager's Office, are responsible for the preservation of vital records. The City will follow standard practices or policies according to the lines of succession in the absence of the City Manager based on organization hierarchy. Each department has a continuity plan for maintaining essential services during a significant event. COOP was exercised during the COVID-19 pandemic.				
<b>Public Health Plan</b>	No	Yes	No	No
<b>Comment:</b> The City follows San Mateo County Public Health guidelines				

Table 12-4. Development and Permitting Capability

Criterion	Response
Does your jurisdiction issue development permits? <i>If no, who does? If yes, which department?</i>	Yes Community Development Department, Building Division
Does your jurisdiction have the ability to track permits by hazard area?	Yes
Does your jurisdiction have a buildable lands inventory?	No

**Table 12-5. Fiscal Capability**

<b>Financial Resource</b>	<b>Accessible or Eligible to Use?</b>
Community Development Block Grants	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes
User Fees for Water, Sewer, Gas or Electric Service	Yes (Utility users' tax on all except sewer)
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	Yes (City Council authorization required)
State-Sponsored Grant Programs	Yes Office of Traffic Safety Citizens Options for Public Safety Supplemental Law Enforcement Services Fund California Governor's Office of Emergency Services Alcoholic Beverage Control Funding for Belle Haven Child Development Center childcare
Development Impact Fees for Homebuyers or Developers	Yes
Flood Control / Sea Level Rise Hazard District	No

**Table 12-6. Administrative and Technical Capability**

<b>Staff/Personnel Resource</b>	<b>Available?</b>	<b>Department/Agency/Position</b>
Planners or engineers with knowledge of land development and land management practices	Yes	Public Works; Community Development (Planning & Building Divisions)
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works; Community Development, (Planning & Building Divisions)
Planners or engineers with an understanding of natural hazards	Yes	Public Works; Community Development, (Planning & Building Divisions)
Staff with training in benefit/cost analysis	Yes	Public Works (Engineering Division), Community Development
Surveyors	Yes	Public Works and Consultants
Personnel skilled or trained in GIS applications	Yes	Public Works, Community Development, Information Technology Division
Scientist familiar with natural hazards in local area	No	N/A
Emergency manager	Yes	Police Department and Menlo Park Fire District
Grant writers	Yes	Police, Public Works, Community Development, Management Analysts (various departments) Menlo Park Fire District
Other		

**Table 12-7. Education and Outreach Capability**

Criterion	Response
<b>Do you have a public information officer or communications office?</b>	Yes  The City of Menlo Park has three designated Public Information Officers. These individuals train for and execute their PIO roles during EOC exercises and are aligned with meeting the PIO State EOC credentialing requirement.
<b>Do you have personnel skilled or trained in website development?</b>	Yes  The City Manager's Office maintains the City website and is tasked with updating and coordinating public information. Personnel are trained and skilled in website use.
<b>Do you have hazard mitigation information available on your website? If yes, briefly describe.</b>	Yes  The City of Menlo Park has hazard mitigation information available on its website. The City also has second party web links available (Menlo Park Fire, American Red Cross, Federal Emergency Management Agency, etc.) for more information. Hazard Mitigation information is posted based on relevance of the season: <ul style="list-style-type: none"> <li>• Summer: Extreme heat, wildland fire and water drought hazard mitigation information may be posted.</li> <li>• Winter: Storm/flooding hazard mitigation information may be posted.</li> <li>• Fall: National preparedness month may include hazard mitigation information on earthquake safety.</li> <li>• Spring: An all hazard mitigation campaign may be posted on "Get Ready" and "What to do in the next 72 hours" for citizens to take advantage of the FEMA Community Emergency Response Team training provided by the Menlo Park Fire District.</li> </ul> The City is transitioning to a new website provider in fall 2021.
<b>Do you use social media for hazard mitigation education and outreach? If yes, briefly describe.</b>	Yes  The City of Menlo Park primarily uses Facebook, Nextdoor and Twitter accounts. The City posts relevant hazard mitigation educational information to the public through these social media and alert notification platforms.
<b>Do you have any citizen boards or commissions that address issues related to hazard mitigation? If yes, briefly describe.</b>	Yes  The Planning Commission serves as a recommending body to the City Council for major subdivisions, rezoning, conditional development permits, Zoning Ordinance amendments, General Plan amendments and the environmental reviews. The Environmental Quality Commission advises the City Council on matters involving environmental protection, sustainability, and sea level rise. The City of Menlo Park, in partnership with the Fire District, participates in volunteer forum meetings to discuss emergency preparedness and mitigation efforts within the City.
<b>Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe.</b>	Nixle, programmable message boards
<b>Do you have any established warning systems for hazard events? If yes, briefly describe.</b>	Yes  In addition to social media and the City website, the City also participates in and uses the countywide SMC Alert system that provides emergency notifications via voice calls, SMS texts, and email.  City also participates in and uses Zonehaven, which is an evacuation platform that is tied into SMC Alert for providing emergency notifications.

**Table 12-8. National Flood Insurance Program Compliance**

Criterion	Response
What local department is responsible for floodplain management?	Public Works, Engineering Division
Who is your floodplain administrator? (department/position)	Assistant Public Works Director
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date that your flood damage prevention ordinance was last amended?	1988 (with amendments in 1993, 1999, 2002, 2005)
Does your floodplain management program meet or exceed minimum requirements? <i>If exceeds, in what ways?</i>	Meets minimum requirements of 44 CFR 60.3 (e)
When was the most recent Community Assistance Visit or Community Assistance Contact?	2/16/2011
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <i>If so, state what they are.</i>	No
Are any RiskMAP projects currently underway in your jurisdiction? <i>If so, state what they are.</i>	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction? <i>If no, state why.</i>	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? <i>If so, what type of assistance/training is needed?</i>	Yes  The City of Menlo Park would require another Certified Floodplain Manager in the Engineering Division to assist with additional floodplain improvement projects.
Does your jurisdiction participate in the Community Rating System (CRS)? <i>If yes, is your jurisdiction interested in improving its CRS Classification?</i> <i>If no, is your jurisdiction interested in joining the CRS program?</i>	Yes  The City of Menlo Park attained a CRS rating of 8 in October 2020.
How many flood insurance policies are in force in your jurisdiction? <sup>a</sup> <i>What is the insurance in force?</i> <i>What is the premium in force?</i>	640 \$181,612,000 \$887,969
How many total loss claims have been filed in your jurisdiction? <sup>a</sup> <i>What were the total payments for losses?</i>	29 \$219,273

a. According to FEMA statistics as of March 31, 2019

**Table 12-9. Community Classifications**

	Participating?	Classification	Date Classified
FIPS Code	Yes	0608146870	N/A
DUNS#	Yes	958191975	N/A
Community Rating System	Yes	8	10/2020
Building Code Effectiveness Grading Schedule	Yes	03	12/2/2020
Public Protection	Yes	2	2013
Storm Ready	No	N/A	N/A
Firewise	No	N/A	N/A
Tsunami Ready	No	N/A	N/A

**Table 12-10. Adaptive Capacity for Climate Change**

Criterion	Jurisdiction Rating <sup>a</sup>
<b>Technical Capacity</b>	
<b>Jurisdiction-level understanding of potential climate change impacts</b>	Medium
<p><b>Comment:</b> Environmental Quality Commission (EQC) and sustainability staff update the Climate Action Plan annually based on the findings of the community's greenhouse gas emissions inventory analysis. The Plan outlines strategies that may take several years to implement by the City, its residents, and businesses.</p>	
<p>Building reach codes were implemented on January 1, 2020 to restrict all new construction to be all-electric with some exceptions. This ordinance would reduce greenhouse gas emissions from the building sector and encourage residents to use renewable energy. Staff is working on the next building cycle to update its reach codes, which may include, but not limited to, some restrictions for existing buildings or more stringent reach codes for new construction.</p>	
<p>One of the primary anticipated impacts of climate change is sea level rise and more frequent and severe flooding. The City is pursuing the SAFER Bay project through a grant application to FEMA's Building Resilient Infrastructure and Communities (BRIC) program to protect the community from sea level rise and flooding. This is consistent with the General Plan Land Use Element Goal LU-7: Promote the implementation and maintenance of sustainable development, facilities, and services to meet the needs of the Menlo Park community. This project application proposes to construct approximately 3.7 miles of nature-based flood control and sea level rise barriers along the San Francisco Bay shoreline. This would be a significant advancement toward the ultimate goal of providing full flood protection for the residents and business near the Bay. As of July 2021, FEMA has selected the SAFER Bay project for further evaluation. Staff has incorporated funding to support this work into the fiscal year 2021-22 capital improvement program. This project aligns with the City's 2030 CAP goal to develop a climate action adaption plan. Because this is a large project, more staff capacity may be needed and is being assessed as the City awaits notification from FEMA regarding the grant award.</p>	
<b>Jurisdiction-level monitoring of climate change impacts</b>	Medium
<p><b>Comment:</b> The City implemented an online permitting system (Accela), which helps staff analyze the number of projects that trigger the all-electric reach code restrictions. The data collected in Accela would also help analyze and develop a policy/program to help convert 95% of existing buildings to all-electric by 2030.</p>	
<p>In partnership with the County, air quality monitors were installed for public health and safety and the data is available on publicly accessible portals. More capacity would be needed to increase monitoring the impacts of climate change.</p>	
<b>Technical resources to assess proposed strategies for feasibility and externalities</b>	Low
<p><b>Comment:</b> The City could use more technical resources to assess the proposed strategies for feasibility and externalities.</p>	
<b>Jurisdiction-level capacity for development of greenhouse gas emissions inventory</b>	Medium
<p><b>Comment:</b> The City could use some improvement in developing the community's greenhouse gas emissions inventory.</p>	

Criterion	Jurisdiction Rating <sup>a</sup>
<p><b>Capital planning and land use decisions informed by potential climate impacts</b></p> <p><b>Comment:</b> The City has a number of ordinances, plans, and projects to address climate impacts through capital planning and land use decisions:</p> <ul style="list-style-type: none"> <li>•Municipal Code Section 16.43.140 is a green and sustainable building ordinance, which requires developers to submit zero waste management plans to showcase how the project will reduce waste during the construction and occupancy phase. This ordinance will help the City meet its zero waste goal of 90% diversion by 2035.</li> <li>•The City is updating the Safety Element to comply with the new changes to SB 379.</li> <li>•Development projects, both commercial and residential, need to be assessed by the standards set by the California Environmental Quality Act, which may require preparation of environmental impact reports.</li> <li>•According to Municipal Code Section 12.16.010, new construction is required to be all-electric, with a few exceptions. For example, the Menlo Park Community Center will be an all-electric building to eliminate the use of natural gas.</li> <li>•The City adopted the sustainable fleet policy in 2020, a minimum 50 percent vehicles purchased will be zero-emission by 2025 and 75 percent by 2030.</li> <li>•The City has undertaken master planning efforts in most capital planning areas in the last five years. These efforts have helped identify funding and project needs (e.g., facilities, streets, transportation, parks, stormwater, etc.), but additional resources (funding and staff or consultants) will be needed to deliver the needed projects to address expected climate impacts. Funds to operate and maintain new infrastructure for adapting to climate change will also be needed.</li> <li>•Potentially more staff resources are needed to process building permits and more outreach is needed to educate the public about the reach codes.</li> </ul>	<p>Medium</p>
<p><b>Participation in regional groups addressing climate risks</b></p> <p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>• A councilmember is a board member of Peninsula Clean Energy, which offers renewable energy to Menlo Park residents. Peninsula Clean Energy offers at minimum 50% renewable energy and 90% greenhouse gas free electricity. With renewable energy powering an all-electric building, the occupants and indoor air quality may significantly improve health and safety.</li> <li>• Both councilmember and staff participate in South Bay Waste Management Authority and Technical Advisory Committee monthly meets to discuss innovative waste reduction and recycling programs. For instance, the group is discussing the upcoming Senate Bill 1383, which is to enforce a more stringent organics program and surplus food recovery. When food waste decomposes in the landfill without air, it creates methane, which is harmful to the environment.</li> <li>• Staff and a councilmember liaison participate in with San Mateo Flood &amp; Sea Level Rise District to discuss climate change impacts of sea level rise and flooding across jurisdictional boundaries. Menlo Park City Council also supported pursuit of the SAFER Bay project for a FEMA BRIC grant application, which proposes to construct approximately 3.7 miles of nature-based flood control and sea level rise barriers along the San Francisco Bay shoreline. This would be a significant advancement toward the ultimate goal of providing full flood protection for the residents and business near the Bay. As of July 2021, FEMA has selected the SAFER Bay project for further evaluation. Staff has incorporated funding to support this work into the fiscal year 2021-22 capital improvement program.</li> <li>• The City partners with local organizations to help monitor and implement climate change goals. For instance, Joint Venture Silicon Valley will assist in reaching the goal to increase EV of new vehicle ownerships to 100% by 2025 and to reduce gasoline sales by 10% a year from the 2018 baseline.</li> <li>• City/County Association of Governments of San Mateo County (C/CAG) staff manage the County’s stormwater program and permitting requirements. City staff actively participate in C/CAGs stormwater committees, and a City Councilmember serves on the C/CAG board.</li> <li>• ICLEI is an international non-governmental organization that promotes sustainable development and provides technical consulting to help the City meet its sustainability initiatives.</li> <li>• BAWSCA and Flows to Bay offer various water conservation programs, such as rain barrel rebates and Lawn Be Gone programs.</li> </ul>	<p>Medium</p>
<p><b>Implementation Capacity</b></p> <p><b>Clear authority/mandate to consider climate change impacts during public decision-making processes</b></p> <p><b>Comment:</b> On December 10, 2019, the City Council adopted Resolution No. 6535 declaring a climate emergency. During public decision-making processes, internal and external stakeholders must comply with the City’s sustainability-related policies and ordinances. The City would need more capacity or to reduce other projects and priorities to adopt and implement programs, ordinances, or solutions to further advance in climate change adaptation.</p>	<p>Medium</p>

Criterion	Jurisdiction Rating <sup>a</sup>
<p><b>Identified strategies for greenhouse gas mitigation efforts</b></p> <p><b>Comment:</b> Menlo Park City Council adopted the 2030 Climate Action Plan (CAP) in July 2020 and approved amendments to it in April 2021. The CAP outlines six goals to reach zero carbon by 2030. Five of these goals address mitigation, as listed below. The CAP goals are to:</p> <ul style="list-style-type: none"> <li>• Explore policy/program options to convert 95 percent of existing buildings to all-electric by 2030</li> <li>• Increase electric vehicle ownership and decrease gasoline sales</li> <li>• Increase access to EV charging infrastructure in multi-family and commercial properties</li> <li>• Reduce vehicle miles traveled by 25 percent or an amount recommended by the Complete Streets Commission</li> <li>• Eliminate the use of fossil fuels from municipal operations.</li> </ul> <p>The scope of work for 2021 implementation are the following:</p> <ul style="list-style-type: none"> <li>• Complete a cost effectiveness analysis on various policy/program pathways towards achieving 95% electrification by 2030.</li> <li>• Collaborate with Joint Venture Silicon Valley to increase the number of new vehicle purchase to be electric vehicles (EV) and decrease the gasoline sales by 10%.</li> <li>• Promote and market incentives to expand access to EV charging stations in multi-family and commercial properties.</li> <li>• Reduce vehicle miles traveled through SB2 Housing grant, completion of Transportation Management Association feasibility study, and implementation of vehicle miles traveled guidelines for new development.</li> <li>• Update the Safety Element of Menlo Park’s General Plan to respond to SB 379.</li> </ul>	High
<p><b>Identified strategies for adaptation to impacts</b></p> <p><b>Comment:</b> The sixth goal from the City’s Climate Action Plan is to develop a climate adaptation plan. The City has participated in past regional efforts to develop adaptation plans for sea level rise, including the SAFER Bay Feasibility Study, led by the San Francisquito Creek Joint Powers Authority; and the Metropolitan Transportation Commission’s Dumbarton Bridge West Approach + Adjacent Communities Resilience Study. The City has applied for a FEMA BRIC grant to support implementation of the first phase of the SAFER Bay project and would continue to partner with other stakeholders to complete the project.</p>	High
<p><b>Champions for climate action in local government departments</b></p> <p><b>Comment:</b></p> <ul style="list-style-type: none"> <li>• The City has a sustainability division to implement the climate action plan and collaborates with multiple departments to adopt climate-related policies and initiatives. More capacity is needed to adopt and implement new programs, ordinances, and implement the CAP goals.</li> <li>• As of fiscal year 2020-21, the City has 109 fleet vehicles, which include vehicles, motorcycles, and parking enforcement buggies. Out of the total fleet vehicles, twenty-one are hybrids and four are all-electric vehicles. The City is waiting for technology to advance for electric utility vehicles, which may be available within the next three years. Public Works is also transitioning its maintenance equipment to electric.</li> <li>• The Building Division implemented local energy code amendments to the building code (reach codes), which went above and beyond State and County recommendations.</li> <li>• The Community Development Department implemented a green and sustainable building ordinance.</li> <li>• In 2015, several solar photovoltaic panels were installed on various City facilities.</li> <li>• The City installed 4 electric vehicle charging stations (with 2 charging ports each) for public use.</li> <li>• The Police Department is currently transitioning their paper parking permits to paperless permits.</li> <li>• The Community Development and Public Works Departments transitioned from paper permitting applications to electronic submittals.</li> <li>• The City’s transportation demand management coordinator provides support to local employers and City employees to provide information about non-single occupancy vehicle travel options, which can help reduce vehicle miles traveled and emissions from transportation mobile sources.</li> </ul>	Medium

Criterion	Jurisdiction Rating <sup>a</sup>
<b>Political support for implementing climate change adaptation strategies</b>	High
<p><b>Comment:</b> •Menlo Park City Council was one of the first cities to adopt reach code, which nearly eliminated natural gas from new buildings. City Council also adopted a resolution to declare climate emergency, which demands accelerated actions on the climate crisis and requests regional collaboration to address climate change. The former mayor also signed a resolution to reaffirm the City’s commitment to tackle climate change at a local level.</p> <p>•All six Climate Action Plan goals are on City Council’s 2021 priorities and work plan: two out of nine priority projects are related to CAP.</p> <p>•Menlo Park City Council also supported pursuit of the SAFER Bay project FEMA BRIC grant application.</p> <p>•The Environmental Quality Commission continues to advise City Council on implementing the CAP goals.</p>	
<b>Financial resources devoted to climate change adaptation</b>	Medium
<p><b>Comment:</b> The City filed the FEMA BRIC grant application, which would help develop a climate action adaptation plan to protect the community from sea level rise and flooding. More capacity is likely to be needed in this effort and other climate change adaptation.</p>	
<b>Local authority over sectors likely to be negative impacted</b>	Unsure
<p><b>Comment:</b> •Code Enforcement officers may be impacted if new building requirement ordinances are adopted that require enforcement resources, but not enough information is known at this time to assign a rating.</p> <p>•Some business industries (such as restaurants, research and development or life-science) may be negatively impacted by the reach codes; however, those business may be exempted from the reach codes as outlined in the Municipal Code Section 12.16.010.</p> <p>•Gas and oil manufacturing sectors may be negatively impacted if the City reduces its gasoline consumption (either for vehicles or for building appliances). This impact would be related to the 2030 CAP goals and the reach codes, but not enough information is known at this time to assign a rating.</p>	
<b>Public Capacity</b>	
<b>Local residents knowledge of and understanding of climate risk</b>	Medium
<p><b>Comment:</b> •The Environmental Quality Commission (EQC), a commission body made up of seven Menlo Park residents, created the 2030 CAP. The Complete Streets Commission, another resident-based commission body of nine members, is anticipated to develop a vehicle miles traveled reduction goal by 2023.</p> <p>•Strong advocacy occurs when climate policies are considered by City Council. Several residents expressed interest to ban gas leaf blowers by adopting an ordinance.</p> <p>•More outreach needs to be done to understand the community’s knowledge and understanding of climate risk. A resolution was approved in April 2021 that approved the scope of work for 2021 implementation of the CAP and to educate residents about climate emergency and to include health, socio-economic, and racial equity in policymaking and climate solutions.</p>	
<b>Local residents support of adaptation efforts</b>	Unsure
<p><b>Comment:</b> Not enough information is known to assign a rating. More outreach is needed.</p>	
<b>Local residents’ capacity to adapt to climate impacts</b>	Unsure
<p><b>Comment:</b> Not enough information is known to assign a rating. More outreach is needed.</p>	
<b>Local economy current capacity to adapt to climate impacts</b>	Unsure
<p><b>Comment:</b> Not enough information is known to assign a rating. More outreach is needed.</p>	
<b>Local ecosystems capacity to adapt to climate impacts</b>	Unsure
<p><b>Comment:</b> Not enough information is known to assign a rating. More outreach is needed.</p>	

a. High = Capacity exists and is in use; Medium = Capacity may exist but is not used or could use some improvement; Low = Capacity does not exist or could use substantial improvement; Unsure= Not enough information is known to assign a rating.

## 12.5 INTEGRATION REVIEW

For hazard mitigation planning, “integration” means that hazard mitigation information is used in other relevant planning mechanisms, such as general planning and capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and



where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

### 12.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- **General Plan**—The Safety Element of the General Plan (adopted May 21, 2013) complies with Assembly Bill No. 2140 and is aimed at reducing potential risk of death, injuries, damage to property, and the economic and social dislocation resulting from fire, flood, geologic and other hazards. The General Plan provides policies and standards for the type, location, intensity, and design of development in areas of potential hazards. The intent is not to remove all risks associated with each specific type of hazard, but to reduce risks to life and property and to make informed decisions about land use and development near these hazards.
- **Climate Action Plan/Climate Change**—The City’s 2030 Climate Action Plan outlines strategies to reduce greenhouse gas emissions and fight climate change. These goals were reviewed to identify cross-planning initiatives that serve both adaptation and mitigation objectives.
- **Zoning Code**—The Zoning Code (Municipal Code Title 16) includes an Open Space and Conservation District (Chapter 16.48). The purpose and intent of this district is:
  - To protect the public health, safety, and welfare
  - To protect and preserve open space land as a limited and valuable resource
  - To assure its continued availability for the following: As agricultural land, scenic land, recreation land, conservation, or natural resource land; for the containment of urban sprawl and the structuring of urban development, and for the retention of land in its natural or near natural state to protect life and property in the community from the hazards of fire, flood, and seismic activity; and
  - To coordinate with and carry out federal, state, regional, county and city open space plans.
- **Stormwater Management**—New and redevelopment projects are required to reduce the quantity and improve the quality of stormwater that flows into the City’s collection system from private property, local creeks, the San Francisco Bay, and the Pacific Ocean. Depending on the size of the project, the City may require special features that minimize pollutants at their source, infiltrate more rain into the soil and treat stormwater before it leaves the site. For larger projects, an agreement to maintain the stormwater treatment measure is also required.
- **Growth Management**—For each new project, developers are required to conduct an environmental impact report and comply with the California Environmental Quality Act.
- **Environmental Protection**—The City has ordinances and policies related to environmental protection:
  - In January 2020, the City adopted reach codes for new construction to reduce greenhouse gas emissions from the building sector and encourage the use of renewable and clean energy. The reach codes are local modifications to account for the climatic, topographic, and geographic conditions that exist in Menlo Park.
  - The City’s Climate Action Plan was adopted in July 2020 and several of its goals are related to environmental protection. Two of the goals are related to electric vehicles: to promote the purchase of

- electric vehicles and increase EV charging stations in multi-family and commercial buildings, and to reduce greenhouse gas emissions and improve air quality.
- The City adopted a Sustainable Vehicle Fleet Policy to increase the number of zero-emission City fleet vehicles.
  - The City has tree pruning program to ensure dead trees and limbs are removed to reduce wildfire risk. The City is transitioning to plant low-water tolerant replacement trees to adapt to the drought season while maintaining the urban canopy.
- **Flood Damage Prevention**—The ordinance (Municipal Code Section 12.42.13) minimizes public and private losses due to flood conditions in specific areas by provisions designed:
    - To protect human life and health
    - To minimize expenditure of public money for costly flood control projects
    - To minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public
    - To minimize prolonged business interruptions
    - To minimize damage to public facilities and utilities such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard
    - To help maintain a stable tax base by providing for the second use and development of areas of special flood hazard so as to minimize future flood blight areas
    - To ensure that potential buyers are notified that property is in an area of special flood hazard; and
    - To ensure that those who occupy special flood hazard areas assume responsibility for their actions.
  - **Capital Improvement Plan**—The capital improvement plan includes projects that can help mitigate potential hazards. The City will act to ensure consistency between the hazard mitigation plan and the current and future capital improvement plans following this update. The hazard mitigation plan may identify new possible funding sources for capital improvement projects and may result in modifications to proposed projects based on results of the risk assessment.
  - **Urban Water Management Plan**—The Urban Water Management Plan assesses the reliability of water sources over a 20-year planning time frame and describes demand management measures and water shortage contingency plans.
  - **Water Shortage Contingency Plan**—The Water Shortage Contingency Plan serves as a standalone document to be engaged in the case of a water shortage event, such as a drought or supply interruption, and defines specific policies and actions that will be implemented at various shortage level scenarios. The primary objective of the Water Shortage Contingency Plan is to ensure that Menlo Park Municipal Water has in place the necessary resources and management responses needed to protect health and human safety, minimize economic disruption, and preserve environmental and community assets during water supply shortages and interruptions. Consistent with California Water Code §10632, the Water Shortage Contingency Plan includes six levels to address shortage conditions ranging from up to 10% to greater than 50% shortage, identifies a suite of demand mitigation measures for Menlo Park Municipal Water to implement at each level, and identifies procedures for Menlo Park Municipal Water to annually assess whether or not a water shortage is likely to occur in the coming year.

## 12.5.2 Opportunities for Future Integration

The capability assessment presented in this annex identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- **Water System Emergency Action Plan**—Required by the State Department of Environmental Health back in 2004. This Plan was written on 12/29/2004 and was updated in 2005, 2011 and 2013, 2016, 2019 and is currently being updated for 2021. The plan can be integrated with the hazard mitigation plan by re-writing it to confirm to the National Incident Management System (NIMS) and attaching it as an appendix.
- **Climate adaptation plan**—The City will develop a climate adaptation plan that would focus on resiliency planning and updating the General Plan Safety Element to comply with recent changes to Senate Bill 379.
- **General Plan Update; Housing, Safety, and Environmental Justice Elements**—The City is currently working on updating/creating the General Plan Housing, Safety, and Environmental Justice Elements. As part of the sustainable and environmental planning guiding principle, the updates will establish goals, policies, and programs that incorporate mitigation strategies to natural hazards, as appropriate. The Safety Element will be updated to comply with Senate Bill 379.
- **Post-Disaster Recovery Plan**—The City does not have a recovery plan and intends to develop one as a mitigation planning action during the next five years. The plan will build on the goals and objectives identified in the hazard mitigation plan. The City is also working with the County on turning the Countywide Debris Management Plan into a stand-alone jurisdictional annex. The City will align its recovery actions with the National and State Disaster Recovery Framework Plan.
- **Stormwater Plan**—The Engineering Division is in the process of updating the stormwater master plan. The plan, when completed, will model the entire City storm drain network and identify areas vulnerable to localized flooding and identify capital projects to mitigate the flooding in these areas. The plan also identifies measures to comply with state mandated requirements under the NPDES permitting requirements.
- **Shoreline Management Plan**—The City does not have a Shoreline Management Plan; however, the City has a few ongoing projects to help manage the risks associated with the shoreline along the Bayfront Canal-Atherton Channel and the former salt ponds.

## 12.6 RISK ASSESSMENT

### 12.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 12-11 lists past occurrences of natural hazards for which specific damage was recorded in this jurisdiction. Other hazard events that broadly affected the entire planning area, including this jurisdiction, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

**Table 12-11. Past Natural Hazard Events**

Type of Event	FEMA Disaster #	Date	Damage Assessment
Wildfires: poor air quality (CZU Fire)	DR-4558	August 14-September 26, 2020	Unknown
Covid-19 Pandemic	DR-4482	January 20, 2020 - present	Unknown
Severe Winter Storms	DR-4308	February 1-23, 2017	Unknown
Severe Storm (El Niño)	N/A	December 23, 2012	\$3 million creek bank erosion private property \$820,000 residential and businesses
Severe Storm (El Niño)	DR-1203	February 9, 1998	Unknown
Loma Prieta Earthquake	DR-845	October 18, 1989	Unknown

## 12.6.2 Hazard Risk Ranking

Table 12-12 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy. Mitigation actions target hazards with high and medium rankings.

**Table 12-12. Hazard Risk Ranking**

Rank	Hazard	Risk Ranking Score	Risk Category
1	Flood	87	High
2	Earthquake	84	High
3	Sea Level Rise / Climate Change	72	High
4	Severe weather	24	Medium
5	Dam Failure	72	Low*
6	Landslide/Mass Movements	72	Low**
7	Drought	9	Low
8	Tsunami	2	Low

\* After reviewing the Dam Failure map provided by Tetra Tech, City of Menlo Park is not in the Inundation Area.

\*\* The City of Menlo Park does not experience a significant amount of landslides/mass movements, which is why the risk ranking changed from High to Low.

## 12.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. This section provides information on a few key vulnerabilities for this jurisdiction. Available jurisdiction-specific risk maps of the hazards are provided at the end of this annex.

### Repetitive Loss Properties

Repetitive loss records are as follows:

- Number of FEMA-identified Repetitive-Loss Properties: 0
- Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: 0

### Other Noted Vulnerabilities

The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

These public facilities are located in either flood hazard areas, along the fault lines, high liquefaction areas, and/or sea level rise areas:

- Menlo Park Community Center (formerly site of the Menlo Park Senior Center, Onetta Harris Community Center, Youth Center, and Belle Haven Pool)
- Belle Haven Child Development Center
- Menlo Park Police Neighborhood Services Center

- Belle Haven Library
- Bedwell Bayfront Park Landfill and Gas Flare
- Chrysler Pump Station
- U.S. Veteran Administration Medical Center
- Nealon Park Little House and Nursery School

Not all structures are listed above because it is assumed the hazards with “High” ranking from Table 12-12 would affect all the structures in the city. Therefore, a comprehensive list of all structures is not needed.

These local street intersections have experienced flooding during heavy rain events:

- Middlefield Rd and Ravenswood Ave.
- Atherton Channel and Haven Ave.
- Pope St. and Elm St. intersection
- Corner of Scott Dr. and Bohannon Dr.
- Campbell Ave. and Scott Dr.
- University Dr. and Middle Ave.
- Menalto Ave. near the Highway 101 sound wall
- Emma Ln.
- O’Brien Dr. and Kavanaugh Dr.
- O’Brien Dr. and Casey Ct.
- Bay Rd. and Menlo Oaks Dr.
- Bay Rd. and Berkeley Ave.
- Laurel St. and Ravenswood Ave.
- El Camino Real and Cambridge Ave.

These are the results from the public survey from residents who live within the 94025 ZIP code:

- Out of 25 natural hazards listed, residents expressed:
  - Extremely concerned for climate change, poor air quality, public health, and wildfire; and
  - Very concerned about earthquake, drought, power failure, flooding, and extreme heat
- Residents most commonly experienced these hazard events within the past five years:
  - Poor air quality due to nearby wildfire
  - Public health – epidemic or pandemic
  - Extreme heat
  - Drought; and
  - Climate change

According to the National Climatic Data Center, the City of Menlo Park and its neighboring cities (Atherton, East Palo Alto, Unincorporated West Menlo Park, North Fair Oaks, and Woodside) reported 12 flood hazard events (out of 16 total events) due to heavy rain within the past six years.

Mitigation actions addressing these issues were prioritized for consideration in the action plan for this annex.

## 12.7 STATUS OF PREVIOUS PLAN ACTIONS

Table 12-13 summarizes the actions that were recommended in the previous version of the hazard mitigation plan and their implementation status at the time this update was prepared.

**Table 12-13. Status of Previous Plan Actions**

Action Item	Completed	Removed; No longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
<p><b>MP-1</b>—Where appropriate, support retro-fitting, purchase or relocation of structures located in high hazard areas and prioritize those structures that have experienced repetitive losses.</p> <p><b>Comment:</b> Menlo Park has a Planning Commission that oversees future building development which takes into consideration high risk hazards. Homeowners in high risk areas are required to take out home insurance associated with potential risks that expose their properties. No city facilities have been vulnerable to recurring losses, so relocation is no longer feasible. On the other hand, the City will continue to support retro-fitting of other structures, but the city’s role in this for private property is limited.</p>			✓	MPK-1
<p><b>MP-2</b>—Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions within the community.</p> <p><b>Comment:</b> The City has incorporated the LHMP in their General Plan Safety Element pertaining to any associated risks or hazards; and takes into consideration these risks during building development or future land-use planning (adopted May 2013). The City is in the process of updating the General Plan Safety Element and will continue to integrate and implement the LHMP (tentative completion in 2022).</p>			✓	MPK-2
<p><b>MP-3</b>—Integrate the hazard mitigation plan into other plans and programs that support infrastructure investments, such as the five-year capital improvement program</p> <p><b>Comment:</b> The City has integrated its hazard mitigation planning as part of the capital improvement program by using prioritization criteria such as public health and safety risks, protecting infrastructure, ability to reduce greenhouse gas emissions and support the City’s 2030 climate action plan, and relationship to adopted plans (including the LHMP). Projects that have therefore been prioritized include funding for the Bayfront Canal and Atherton Channel flood protection project, the San Francisquito Creek upstream flood protection project, the reconstruction of the Chrysler stormwater pump station, and the SAFER Bay sea level rise protection project.</p>			✓	MPK-2
<p><b>MP-4</b>—Develop and implement a program to capture perishable data after significant events (e.g., high water marks, preliminary damage estimates, damage photos) to support future mitigation efforts including the implementation and maintenance of the hazard mitigation plan.</p> <p><b>Comment:</b> The City developed an application for conducting damage assessment following the guidelines of ATC-20 that has the ability to record preliminary damage estimates and photos. The program is called the Damage Assessment Reporting System. The City uses several project management tools, including Dropbox, ArcGIS and Monday.com for archiving information. Per County of San Mateo guidance, the City also adheres to filling out the “SMC Initial Damage Estimate” sheet.</p>				

Action Item	Completed	Removed; No longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
<p><b>MP-5</b>—Support the County-wide initiatives identified in Volume I of the hazard mitigation plan.</p> <p><b>Comment:</b> The City continues to partner with the County on all related hazard reduction, emergency preparedness, and disaster response efforts. Elected Officials serve as part of the San Mateo County Emergency Services Council in accordance with the Joint Powers Agreement. Participation in the Authority is to ensure cooperative emergency planning and response. All participating members and partners are expected to attend all regular and special meetings of the Area Emergency Services Council, agree to active participation by their jurisdictions in the development of plans and training programs, drills, exercises, and training opportunities, and otherwise assist in supporting the implementation of this agreement.</p>				MPK-3
<p><b>MP-6</b>—Actively participate in the plan maintenance protocols outlined in Volume I of the hazard mitigation plan.</p> <p><b>Comment:</b> The Menlo Park Fire Protection District, in partnership with the City of Menlo Park, supports the facilitation of the maintenance protocols of the Hazard Mitigation Plan. Each department has taken ownership of their hazard mitigation projects and provides updates to the Point of Contact related to the completion of projects annually. GIS mapping tools are being developed to engage the public.</p>				MPK-4
<p><b>MP-7</b>—Continue to maintain good standing and compliance under the National Flood Insurance Program (NFIP). This will be accomplished through the implementation of floodplain management programs that will, at a minimum, meet the requirements of the NFIP: Enforcement of the flood damage prevention ordinance Participate in floodplain identification and mapping updates; and Provide public assistance/information on floodplain requirements and impacts.</p> <p><b>Comment:</b> The City of Menlo Park has been recognized for performing floodplain management activities above and beyond the minimum requirements for the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP). As a result of the City's continuing efforts in floodplain management activities, Menlo Park has been certified to participate in the Community Rating System (CRS) program and received Class 8 effective of October 1, 2020 (expiration date on October 31, 2023). The City is compliant with NFIP requirements and flood-plain management programs including coordination on mapping updates and providing information and assistance to residents included in the program. The next annual recertification is due by August 1, 2021. The process involves certifying that the City have been performing the agreed upon activities and updating data.</p>				MPK-5
<p><b>MP-8</b>—Work with building officials to identify ways to improve the jurisdiction's BCEGS classification</p> <p><b>Comment:</b> The concept behind the Building Code Effectiveness Grading Schedule (BCEGS) is that municipalities with well-enforced building code requirements designed to mitigate losses from natural hazards, demonstrate better loss experience, and can ultimately lower citizens' insurance costs. Effectiveness Classification ranges from Class 1 to Class 10, with Class 1 being the highest/top score. In May 2021, the City of Menlo Park received BCEGS Class 3 for single- and two-family residential property and Class 3 for commercial and industrial property. This is a significant achievement that reflects the City's ongoing dedication for community development that is safe and supportive of Menlo Park's outstanding quality of life.</p>				
<p><b>MP-9</b>—Develop a post-disaster recovery plan and debris management plan.</p> <p><b>Comment:</b> The County developed a Debris Management plan in August 2020. Menlo Park does not have a stand-alone Debris Management Plan. The Public Works Department is reviewing the County plan with the goal of doing an independent plan aligned with the County Plan.</p>				MPK-6
<p><b>MP-10</b>—Develop mitigation controls (continuity of government plans) and ensure force protection measures are in place in relation to vulnerable critical facilities within the City (police stations, fire stations, emergency operation center, City Hall, emergency shelters, etc.)</p> <p><b>Comment:</b> The City is working with the County to support the development of a Continuity Operation Plan in order to align with countywide plans. The Menlo Park Fire Protection District, in partnership with the City, is working toward development.</p>				MPK-7

Action Item	Completed	Removed; No longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
<p><b>MP-11</b>—Develop a plan for expediting the repair and restoration of the water systems through stockpiling of shoring materials, temporary pumps, surface pipelines, portable hydrants, and other supplies, such as those available through the Water Agency Response Network (WARN).</p> <p><b>Comment:</b> The City’s 2016 Water System Emergency Response Plan will be updated with a 2021 Water System Emergency Response Plan by 12/31/2021. The City has cooperative agreements in place with emergency service/disaster service contractors. The Public Works Department and Menlo Park Municipal Water has on-call personnel 24/7 which coordinate timely repairs and restoration of water systems in the city. The City has interconnect agreements in place with adjacent water providers. The City coordinates with West Bay Sanitary Sewer District with repair and restoration of the wastewater systems.</p>				
<p><b>MP-12</b>—Continue to participate in the Public Works Mutual Aid Agreement—San Mateo County in accordance with resource sharing and resource coordination.</p> <p><b>Comment:</b> The City continues to participate in the Public Works Mutual Aid Agreement and has also piloted a system called the Field Emergency Resource Management System, an interactive web-based emergency resources sharing application. The City also uses the ICS-213RR Resource Request Form.</p>				
<p><b>MP-13</b>—Continue to ensure that critical intersection traffic lights function following loss of power by testing battery back-ups, emergency generators, or lights powered by alternative energy sources such as solar.</p> <p><b>Comment:</b> The City has an on-call contract with CalWest for emergency response to traffic signal outages and has two portable generators on hand in case of power outages. Monthly maintenance on all generators is completed by the fleet section of the Public Works Department. In addition, the City has secured a set of solar panels and 12-volt batteries. This solar charging station will be installed at the Corporation Yard to provide fully charged batteries on stand-by for lighted crosswalks.</p>				
<p><b>MP-14</b>—Develop emergency plans or MOU agreements with neighboring mutual aid providers.</p> <p><b>Comment:</b> The City continues to promote Field Emergency Resource Management System, Field Emergency Resource Management System, which facilitates our emergency resources sharing capabilities and MOU agreements among neighboring mutual aid providers countywide. The system has been tested and exercised. The City also participates in the Disaster Service Committee that is a multi-jurisdictional emergency planning work group. The City has a Public Works Mutual Aid Agreement in place by Resolution No. 6547 adopted in March 2020. Through a standardized Emergency Operation Plan between East Palo Alto, Atherton, Menlo Park, and the Fire District the City maintains a system of neighboring unity and structure.</p>				
<p><b>MP-15</b>—Implement maintenance and storm preparedness plans that include the annual clearing of storm water drains and culverts, drainage ditches, and other waterways, such as the Atherton Channel and San Francisquito Creek, to maintain flood protection.</p> <p><b>Comment:</b> The City has a Flood Response Annex which includes the annual clearing of storm water drains and culverts, drainage ditches, and other waterways, such as the Atherton Channel and San Francisquito Creek, to maintain flood protection. The City also participates in the San Francisquito Creek Joint Powers Authority annual Flood Preparedness Workshops. The City conducts an annual inspection of the storm drain system before the rainy season. As part of the City’s in-house inspection and cleaning program on a five-year routine basis, the contractor focuses on root cleaning, line clearing, and CCTV line inspection.</p>			✓	MPK-8
<p><b>MP-16</b>—Continue to coordinate with the City of Redwood City on the Bayfront Canal flood control improvements.</p> <p><b>Comment:</b> The City has been working with San Mateo Flood and Sea Level Rise Resiliency District, San Mateo County, Redwood City and the Town of Atherton on the design and construction of the Bayfront Canal Bypass Project. An MOU was approved by all partner agencies in November 2020 and construction commenced in 2021.</p>				



Action Item	Completed	Removed; No longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
<p><b>MP-17</b>—Continue to coordinate with the San Francisquito Creek Joint Powers Authority on San Francisquito Creek and SAFER Bay flood control projects.</p> <p><b>Comment:</b> The City continues to coordinate with the San Francisquito Creek JPA on the Downstream of 101 and Upstream of 101 flood control projects, as well as the development of the SAFER Bay project. In 2021, the City applied for a FEMA Building Resilient Infrastructure and Communities (BRIC) grant for several reaches of the SAFER Bay Project, in partnership with the JPA, PG&amp;E, and Facebook.</p>				MPK-9
<p><b>MP-18</b>—Continue to coordinate with the California Coastal Conservancy and the U.S. Fish &amp; Wildlife Service on the South Bay Salt Pond Restoration Project.</p> <p><b>Comment:</b> The coordination work with the California Coastal Conservancy is ongoing. The City is working on a levee project currently with members.</p>				MPK-10
<p><b>MP-19</b>—Upgrade the Chrysler Pump Station to improve flood protection in the Bayfront area.</p> <p><b>Comment:</b> The design of the Chrysler Pump Station is currently underway, and funding was secured in 2020 with a \$5 million FEMA Hazard Mitigation Grant program award. Construction is anticipated to begin in 2021 and completed by 2023.</p>				MPK-11
<p><b>MP-20</b>—Develop and implement a Green Infrastructure Plan to improve storm water quality and flood protection.</p> <p><b>Comment:</b> The City Council adopted the Green Stormwater Infrastructure Plan in 2019. The City has also hired a consultant to develop a storm water master plan.</p>				
<p><b>MP-21</b>—Produce hazards maps that take into account the impacts of flooding due to climate change.</p> <p><b>Comment:</b> San Mateo County's Office of Sustainability published the draft Sea Level Rise Vulnerability Assessment for San Mateo County in 2018. The study includes maps for a number of sea level rise scenarios, which includes areas that would be impacted in Menlo Park. The City also has GIS staff that references flood inundation maps to incorporate data into other City planning documents and analyses.</p>				MPK-12
<p><b>MP-22</b>—Develop an Adaptation to Climate Change Plan and integrate into the Local Hazard Mitigation Plan.</p> <p><b>Comment:</b> In early 2020, the San Mateo County Flood and Sea Level Rise District was formed to represent all cities and the County of San Mateo. The City of Menlo Park is an active member of this agency that is developing plans and projects to protect areas of the city vulnerable to sea level rise and climate change. In July 2020, the City adopted, and in April 2021 updated, the Climate Action Plan that identifies climate change resiliency as a priority for Menlo Park.</p>				MPK-13
<p><b>MP-23</b>—Continue to participate with the San Mateo County Flood and Sea level Rise Resiliency District on key flood control projects.</p> <p><b>Comment:</b> The Sea Level Rise Vulnerability Assessment was completed in 2018 with substantial input from the City of Menlo Park. Following completion of the assessment and the passage of AB825, the San Mateo County Flood and Sea level Rise Resiliency District was formed as noted in MP-17 and MP-22. The City participates in FSLRRD meetings and is a stakeholder/partner on key flood control projects.</p>				MPK-14
<p><b>MP-24</b>—Develop a recycled water feasibility study and adopt a recycled water ordinance for the use of recycled water in the Menlo Pak Municipal Water District service area.</p> <p><b>Comment:</b> West Bay Sanitary District completed preparation of its recycled water feasibility study of the Bayfront area of Menlo Park in May 2019. West Bay also completed construction of the Sharon Heights recycled water project with operations commencing in October 2020 to provide recycled water to the Sharon Heights Golf and Country Club.</p>				

Action Item	Completed	Removed; No longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
<p><b>MP-25</b>—Plan, design and build emergency water supply wells to serve residents during times of emergencies that result in a loss of water supply.</p> <p><b>Comment:</b> The City began construction of its first emergency water supply well in 2018 and the project was completed in 2020, awaiting issuance of permits from the State Department Water Resources, expected in 2021. The City is exploring considerations for a second emergency well and/or reservoir in partnership with Ravenswood City School District at the Willow Oaks School and park sites.</p>				
<p><b>MP-26</b>—Update the Seismic Vulnerability Assessment of the City’s water distribution system.</p> <p><b>Comment:</b> In June 2021, the City used EPA’s Vulnerability Self-Assessment Tool (VSAT) to complete a Risk and Resiliency Assessment to evaluate all risks including seismic assessment of the City’s water distribution system.</p>				
<p><b>MP-27</b>—Plan, design, and build for the undergrounding of utilities in the downtown parking areas.</p> <p><b>Comment:</b> The City Council established three underground utility districts in February 2020, one of which is located downtown. The California Public Utilities Commission recently adopted major changes to the Rule 20A program (which funded undergrounding utilities), requiring the City to reassess the viability of this (or any) undergrounding project in 2021. The undergrounding of utilities in the downtown parking areas was identified as a lower priority area than other corridors in the City by the City Council in mid-2021.</p>		✓		
<p><b>MP-28</b>—Develop a program for the installation and replacement of emergency generators at critical facilities.</p> <p><b>Comment:</b> The City installed an emergency generator at City Hall in 2018. The City continues to assess the installation of emergency generators at critical facilities with a focus on the delivery of a new community center which would provide emergency shelter capabilities in the Belle Haven neighborhood. This new facility would provide back-up power options using solar and battery backups in addition to an emergency generator. All emergency generators are serviced monthly by the Public Works fleet section and a list of the age and condition of all generators has been developed.</p> <p>The City will carry over and modify the Action Item to maintain and replace emergency generators at critical facilities.</p>				MPK-15
<p><b>MP-29</b>—Continue to enforce and or comply with the State-mandated requirement that site-specific geologic reports be prepared for development proposals within Alquist-Priolo Earthquake Fault Zones and restrict the placement of structures for human occupancy.</p> <p><b>Comment:</b> The City complies with and enforces State mandated requirements. No properties within the City limits are within active fault zones.</p>	✓			
<p><b>MP-30</b>—Update as needed and enforce regulations concerning new construction (and major improvements to existing structures) within flood zones in order to be compliant with federal requirements and the National Flood Insurance Program.</p> <p><b>Comment:</b> The City continues to enforce regulations concerning new construction within flood zones complying with federal requirements. The City enforces stricter regulations with Ordinance 12.42.</p>	✓			
<p><b>G-1</b>—Consider participation in incentive-based programs such as the Community Rating System, Tree City, and StormReady.</p> <p><b>Comment:</b> The City of Menlo Park was certified to participate in the Community Rating System program and received Class 8 effective of October 1, 2020. The Arbor Day Foundation recognized the City of Menlo Park as a Tree City for 22 consecutive years and as a Tree Growth City for six years as of June 2021.</p> <p>This Action Item will be carried over and consolidated with MPK-5.</p>				MPK-5
<p><b>G-2</b>—Where feasible, implement a program to record high water marks following high-water events.</p> <p><b>Comment:</b> The City has an emergency flood response annex that has identified the appropriate response triggers. The City also monitors the San Francisquito Creek flood monitors which provide early warning when limits have been reached.</p>				

Action Item	Completed	Removed; No longer Feasible	Carried Over to Plan Update	
			Check if Yes	Action # in Update
<p><b>G-3</b>—Provide incentives for eligible non-profits and private entities, including homeowners, to adapt to risks through structural and nonstructural retrofitting.</p> <p><b>Comment:</b> The City of Menlo Park has been recognized for performing floodplain management activities above and beyond the minimum requirements for the Federal Emergency Management Agency (FEMA) National Flood Insurance Program. Beginning this fall, Menlo Park residents and businesses located in the following flood zones could be eligible for a discount on their flood insurance premium: Flood zone A and AE: 10 percent discount; and Flood zone X: 5 percent discount.</p> <p>Menlo Park is an active member of the federal flood insurance program that provides flood insurance to residential and commercial structures in areas prone to inundation. The program also sets minimum standards for floodplain management which cities must follow to retain their membership status. Municipalities exceeding these standards may be eligible for flood insurance discounts through the Community Rating System (CRS). The City of Menlo Park has earned certification with a Class 8 rating. City’s flood insurance webpage: <a href="https://www.menlopark.org/901/Flood-insurance">https://www.menlopark.org/901/Flood-insurance</a></p>				MPK-16
<p><b>G-4</b>—Support the County-wide initiatives identified in Volume I of the hazard mitigation plan.</p> <p><b>Comment:</b> The City continues to partner with the County on all related hazard reduction, preparedness, and response efforts (CERT, County Disaster Preparedness Fair, Emergency Managers Association, JPA Emergency Service Council, etc.). These efforts will continue in the future through the efforts of the emergency management program. The City adopted Resolution No. 6339 on August 30, 2016, to approve an update to the Menlo Park Local Hazard Mitigation Plan Annex to the San Mateo County Hazard Mitigation Plan. This Action Item is repetitive. See Action Item MP-5.</p>				MPK-3
<p><b>G-5</b>—Actively participate in the plan maintenance protocols outlined in Volume I of the hazard mitigation plan.</p> <p><b>Comment:</b> The City continues to review the Local Hazard Mitigation Plan maintenance protocols and strives to assess its capabilities in achieving many of the tasks outlined in the plan; based on staffing and budget capabilities. Through department meetings, the local hazard mitigation projects are reviewed, and where budget allows, funds are directed toward such projects. This Action Item is repetitive. See Action Item MP-6.</p>				MPK-3

## 12.8 HAZARD MITIGATION ACTION PLAN

Table 12-14 lists the identified actions, which make up the hazard mitigation action plan for this jurisdiction. Table 12-15 identifies the priority for each action. Table 12-16 summarizes the mitigation actions by hazard of concern and mitigation type.

**Table 12-14. Hazard Mitigation Action Plan Matrix**

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline <sup>a</sup>
<p><b>Action MPK-1</b>— Where appropriate, support retro-fitting in high hazard areas and prioritize those structures that have experienced repetitive losses. This may include, but not limited to, an inventory of city structures known to be at seismic risk.</p> <p><i>Hazards Mitigated:</i></p> <p>Existing</p>	Earthquake, Flood 6, 7, 9, 11, 13	Public Works	Community Development	High	Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline <sup>a</sup>
<p><b>Action MPK-2</b>—Integrate the hazard mitigation plan and CalEnvrioScreen into other plans, ordinances, and programs that dictate land use decisions within the community, including the General Plan Safety Element and Environmental Justice Element. CalEnvrioScreen’s four broad groups of environmental conditions indicators—exposures, environmental effects, sensitive populations, and socioeconomic factors—can inform plans for promoting public health, protection from environmental hazards, and enriching the quality of life for all Menlo Park residents.</p> <p><u>Hazards Mitigated:</u> Flood, Earthquake, Climate Change, Sea Level Rise</p>						
New and Existing	2, 4, 6, 7	Community Development	N/A	Low	Staff time, General Fund	Ongoing
<p><b>Action MPK-3</b>—Integrate the hazard mitigation plan into other plans and programs that support infrastructure investments, such as the capital improvement program.</p> <p><u>Hazards Mitigated:</u> Flood, Earthquake, Climate Change, Drought, Sea Level Rise</p>						
New and Existing	1, 2, 4, 6, 7, 8, 13	Public Works	N.A	Medium	Staff time, General Funds,	Ongoing
<p><b>Action MPK-4</b>—Support the County-wide initiatives and actively participate in the plan maintenance protocols outlined in Volume I of the hazard mitigation plan.</p> <p><u>Hazards Mitigated:</u> Flood, Earthquake, Drought, Climate Change, Sea Level Rise</p>						
New and Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	Public Works	Community Development	Low	Staff time, General Funds	Ongoing
<p><b>Action MPK-5</b>—Continue to participate in Tree City USA, CRS, BCEGS, and maintain good standing and compliance under the National Flood Insurance Program (NFIP). This will be accomplished through the implementation of floodplain management programs that will, at a minimum, meet the requirements of the NFIP:</p> <ul style="list-style-type: none"> <li>• Enforcement of the flood damage prevention ordinance</li> <li>• Participate in floodplain identification and mapping updates; and</li> <li>• Provide public assistance/information on floodplain requirements and impacts.</li> </ul> <p>The City will also work towards obtaining a StormReady certification.</p> <p><u>Hazards Mitigated:</u> Flood, Climate Change</p>						
New and Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14	Public Works	N/A	Low	General Fund	Ongoing
<p><b>Action MPK-6</b>—Develop a pre- and post-disaster recovery plan, post-earthquake operation plan, and debris management plan to follow FEMA guidelines.</p> <p><u>Hazards Mitigated:</u> Flood, Earthquake</p>						
New and Existing	1, 2, 6, 8, 9, 11	City of Menlo Park and Menlo Park Fire Protection District	N/A	Medium	Staff Time, General Funds, Emergency Management Performance Grants	Ongoing
<p><b>Action MPK-7</b>—Develop mitigation controls (continuity of government plans) and ensure force protection measures are in place in relation to vulnerable critical facilities within the city (e.g., police stations, fire stations, emergency operation center, City Hall, emergency shelters, etc.)</p> <p><u>Hazards Mitigated:</u> Earthquake, Flood, Climate Change, Sea Level Rise</p>						
New and Existing	6, 9, 13	City of Menlo Park	Menlo Park Fire Protection District	Medium	Grant funding=EMPG and HSGP	Short-term
<p><b>Action MPK-8</b>—Implement maintenance and storm preparedness plans that include the annual clearing of storm water drains and culverts, drainage ditches, and other waterways, such as the Atherton Channel and San Francisquito Creek, to maintain flood protection.</p> <p><u>Hazards Mitigated:</u> Flood, Climate Change</p>						
New and Existing	8,9	Public Works		Medium	Grant funding- EPA Grants (Section 319 grants, CWSRF)	Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline <sup>a</sup>
<b>Action MPK-9</b> — Continue to coordinate with the San Francisquito Creek Joint Powers Authority on San Francisquito Creek and SAFER Bay flood control projects.						
<i>Hazards Mitigated:</i> Dam Failure, Flood, Landslide, Severe Weather, Climate Change, Sea Level Rise						
Existing	1, 4, 7, 8, 9, 10, 14	Public Works	San Francisquito Creek Joint Powers Authority	Medium	Staff Time, General Fund, Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Ongoing
<b>Action MPK-10</b> —Continue to coordinate with the California Coastal Conservancy and the U.S. Fish & Wildlife Service on the South Bay Salt Pond Restoration Project.						
<i>Hazards Mitigated:</i> Flood, Climate Change, Sea Level Rise						
Existing	1, 4, 7, 8, 9, 10, 14	California State Coastal Conservancy	Public Works	Low	Staff Time, General Fund	Ongoing
<b>Action MPK-11</b> —Upgrade the Chrysler Pump Station to improve flood protection in the Bayfront Area.						
<i>Hazards Mitigated:</i> Flood, Severe Weather, Climate Change, Sea Level Rise						
Existing	1, 6, 8,9	Public Works		Medium	Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Short-term
<b>Action MPK-12</b> —Produce hazards maps that take into account the impacts of flooding due to climate change.						
<i>Hazards Mitigated:</i> Flood, Climate Change, Severe Weather, Sea Level Rise						
New and Existing	1, 3, 4, 5, 8, 10, 11	Public Works	Information Technology	Low	Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Short-term
<b>Action MPK-13</b> —Prepare a climate adaption and resiliency plan including, but not limited to, the following strategies:						
<ul style="list-style-type: none"> <li>Identify local risks of climate change (e.g., sea level rise, air quality, water supply, energy outages, vector control, extreme heat, increased social unrest)</li> <li>Identify what the City can do in the short-term while long-term planning is underway</li> <li>Identify in the long-term plan to include strategies that address further increases in global temperatures beyond 2040</li> <li>Conduct general engagement and education to develop the plan (city staff and the community)</li> <li>Address existing and future equity issues through research and engagement with low to moderate income community members that are likely to be most impacted and vulnerable to climate change</li> <li>Address mitigation and resiliency through capital improvement projects, city operations, and development projects</li> <li>Evaluate whether federal, state, and regional sea level rise district and San Francisquito Creek agencies holistically address Menlo Park’s local needs for climate adaptation/resiliency with a focus on equity</li> <li>Provide a roadmap for the City to follow over the next 10 years and/or beyond; and</li> <li>Revise policies and/or create programs to improve climate resilience.</li> </ul>						
<i>Hazards Mitigated:</i> Flood, Climate Change, Drought, Severe Weather, Sea Level Rise						
New and Existing	1, 2, 3, 4, 5, 8, 10, 14	City Manager’s Office	Public Works, Community Development	Low	Staff time, General Fund, Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Short-term
<b>Action MPK-14</b> —Continue to participate with the San Mateo County Flood and Sea Level Rise Resiliency District on flood control projects.						
<i>Hazards Mitigated:</i> Flood, Sea Level Rise						
Existing	1, 2, 3, 4, 5, 8, 10, 14	County of San Mateo	Public Works	Low	Staff Time, General Fund	Short-term
<b>Action MPK-15</b> —Develop a program for maintaining and replacing the emergency generators at critical facilities.						
<i>Hazards Mitigated:</i> Flood, Climate Change, Earthquake, Severe Weather						
New and Existing	6, 7, 8	Public Works		Medium	Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline <sup>a</sup>
<b>Action MPK-16</b> —Provide incentives for eligible non-profits and private entities, including homeowners, to adapt to risks through structural and nonstructural retrofitting.						
<i>Hazards Mitigated:</i> Flood, Climate Change, Severe Weather, Earthquake, Dam Failure						
Existing	2, 3, 4, 5, 6, 7, 8, 9, 10, 13	City of Menlo Park		High	Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Ongoing
<b>Action MPK-17</b> —Update the City’s stormwater master plan to identify areas vulnerable to localized flooding and identify capital projects to mitigate those areas.						
<i>Hazards Mitigated:</i> Flood, Climate Change, Severe Weather						
Existing	1, 4, 6, 7, 8, 9, 13	Public Works		\$330,000	General Fund-FEMA HMA (BRIC, FMA and HMGP)	Short-term
<b>Action MPK-18</b> —Develop a shoreline management plan to protect coastline from soil erosion and enhance the coastline with trails, parks, and wildlife refuge.						
<i>Hazards Mitigated:</i> Flood, Climate Change						
New	1, 4, 7, 8, 9, 13, 14	Public Works		Low/Medium	Staff time, General Fund, Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Medium-term
<b>Action MPK-19</b> —Review and update the City’s 2014 Emergency Operation Plan. Incorporate outreach, which may include, but not limited to, the City’s bi-annual resident survey and establish an annual report on the hazard mitigation plan. The update may also include incorporating FEMA recommended guidelines and SB160: Cultural Competence.						
<i>Hazards Mitigated:</i> Flood, Earthquake, Climate Change, Dam Failure, Landslide/Mass Movements, Severe Weather, Drought, Tsunami, Sea Level Rise						
Existing	1, 2, 3, 4, 8, 9, 10, 11, 12	City of Menlo Park	Menlo Park Fire Protection District		Staff time	Short-term
<b>Action MPK-20</b> —Provide training opportunities for City staff to be certified floodplain managers.						
<i>Hazards Mitigated:</i> Flood						
New	1, 5, 7, 8, 9, 13	City of Menlo Park		Low	Staff time, General Fund	Ongoing
<b>Action MPK-21</b> —Provide education to community members and City staff about the City’s 2030 Climate Action Plan goals and present strategies to achieve those goals.						
<i>Hazards Mitigated:</i> Climate Change, Sea Level Rise						
New and Existing	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14	City of Menlo Park		Low	Staff time, General Fund	Short-term
<b>Action MPK-22</b> —Develop an emergency water storage and supply project which may include, but is not limited to, a new underground reservoir to provide emergency water supply to residents during times of emergencies.						
<i>Hazards Mitigated:</i> Flood, Earthquake, Climate Change, Severe Weather, Drought						
New	1, 2, 4, 5, 6, 8, 9	Menlo Park Municipal Water		\$27M	Staff time, Water Fund, Loans	Medium-term (5-10 years)
<b>Action MPK-23</b> —Replace the roof on Reservoir 2, which is deteriorating and at the end of its life expectancy. The replacement would ensure continued public health protection, system reliability, and ensure the functionality of the existing emergency water storage.						
<i>Hazards Mitigated:</i> Earthquake, Climate Change, Severe Weather, Drought						
Existing	1, 4, 6, 8, 9, 13	Menlo Park Municipal Water		\$4.6M	Water Fund	Short-term
<b>Action MPK-24</b> —Plan, design, and implement the water infrastructure improvements recommended in the Water System Master Plan to upgrade infrastructure in the Menlo Park Municipal Water service area to meet fire flow demands.						
<i>Hazards Mitigated:</i> Severe Weather						
Existing	1, 4, 6, 8, 9, 13	Menlo Park Municipal Water		\$1.6M	Water Fund	Short-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline <sup>a</sup>
<b>Action MPK-25</b> —As part of the Water System Master Plan capital improvement projects, two water interconnection projects would provide alternative emergency water supply sources.						
<u>Hazards Mitigated</u> New	Earthquake, Drought, Severe Weather 1, 2, 4, 6, 8, 9, 13	Menlo Park Municipal Water		\$2M	Water Fund	Short-term
<b>Action MPK-26</b> —Incorporate consideration of the FEMA 100-year tide and sea level rise data and climate change-driven extreme storms into land use planning and shoreline development. This includes new policies by local jurisdictions, and County and City actions regarding their General Plans, Climate-related Plans, and the development applications.						
<u>Hazards Mitigated</u> New and Existing	Flood, Climate Change, Sea Level Rise 1, 2, 5, 6, 7, 8, 9, 13, 14	SMC Flood & Sea Level Rise Resiliency District	County and Menlo Park	Low	General Fund, Private Developers, City Capital Project Funding	Ongoing
<b>Action MPK-27</b> —Continue to identify and plan upgrades of utility systems, equipment, and critical facilities, including pump stations, generators, tide gates, stream gages, open channel, and culvert/pipeline infrastructure.						
<u>Hazards Mitigated</u> New and Existing	Climate Change, Flood, Severe Weather 2, 6, 7, 8	SMC Flood & Sea Level Rise Resiliency District	Menlo Park, County and San Mateo Resource Conservation District	Medium	Tax-Funded Flood Zones, Grant funding	Ongoing
<b>Action MPK-28</b> —Support green infrastructure projects that enhance resiliency to natural disasters and incorporate green design elements into hazard mitigation projects where feasible.						
<u>Hazards Mitigated</u> New and Existing	Climate Change/Sea Level Rise, Landslide, Flood, Severe Weather, Drought, Sea Level Rise 2, 6, 7, 8, 14	Menlo Park	SMC Flood & Sea Level Rise Resiliency District, and San Mateo Resource Conservation District	Medium	Tax-Funded Flood Zones, Property/Vehicle Fees, Stormwater Fees, Grant funding	Ongoing
<b>Action MPK-29</b> —Identify and pursue strategies to enhance recycled water infrastructure planning/implementation in the vicinity of FSLRRD projects.						
<u>Hazards Mitigated</u> New and Existing	Drought 1, 6, 7, 8	Menlo Park, SMC Flood & Sea Level Rise Resiliency District	County of San Mateo, San Mateo Resource Conservation District, and West Bay Sanitary Sewer District	Medium	Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Ongoing
<b>Action MPK-30</b> — Improve community response to flood emergencies in various ways, including but not limited to: - Upgrade and expand the countywide flood early warning system - Conduct community flood preparation, education, and recovery outreach.						
<u>Hazards Mitigated</u> New and Existing	Climate Change, Flood, Severe Weather 2, 3, 7, 8, 9, 10, 11	SMC Flood & Sea Level Rise Resiliency District	County and Menlo Park	Low	Grant funding-EMPG and HSGP. NWS grants for Flood Warning Systems	Short-term
<b>Action MPK-31</b> —Develop Emergency Action Plans for Bayfront Canal and Atherton Channel.						
<u>Hazards Mitigated</u> Existing	Climate Change, Flood, Severe Weather, Sea Level Rise 3, 4, 7, 8, 9, 11	SMC Flood & Sea Level Rise Resiliency District	Redwood City, County of San Mateo, Menlo Park, and Atherton	Low	Grant funding-EMPG and HSGP	Long-term

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline <sup>a</sup>
<b>Action MPK-32</b> —Advance long-term resilience to sea level rise and extreme storms for the communities and critical assets along the San Francisco Bay shoreline south of Whipple Avenue to Marsh Road, as well as provide environmental, recreation, community/connectivity enhancements where possible.						
<i>Hazards Mitigated</i> Climate Change, Flood, Severe Weather, Sea Level Rise						
New and Existing	6, 7, 8, 14	SMC Flood & Sea Level Rise Resiliency District	Redwood City, County, and Menlo Park	High	Private Developers, Grant funding-FEMA HMA (BRIC, FMA and HMGP)	Long-term
<b>Action MPK-33</b> —Complete construction and oversee ongoing operation, maintenance, and mitigation efforts for the Bayfront Canal and Atherton Channel Flood Protection and Ecosystem Restoration Project.						
<i>Hazards Mitigated</i> Flood, Severe Weather, Sea Level Rise						
Existing	4, 7, 8	SMC Flood & Sea Level Rise Resiliency District	Redwood City, Menlo Park, Atherton, and County	Low	Grant funding-FEMA HMA (BRIC, FMA and HMGP), City Capital Project Funding	Short-term
<b>Action MPK-34</b> —Advance long-term resilience to sea level rise and extreme storms for the communities and critical assets adjacent to the San Francisquito Creek and nearby areas of the shoreline with the Cities of Menlo Park and East Palo Alto, as well as provide environmental, recreation, community/connectivity enhancements where possible.						
<i>Hazards Mitigated</i> Climate Change, Flood, Severe Weather, Sea Level Rise						
New and Existing	4, 6, 7, 8, 10, 14	Menlo Park	Caltrans, and San Francisquito Creek Joint Powers Authority, San Mateo Resource Conservation District	Medium	Grant funding, Federal Grants (FEMA BRIC/HMGP), City Capital Project Funding	Long-term

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years; Ongoing= Continuing new or existing program with no completion date

Acronyms used here are defined at the beginning of this volume.



Table 12-15. Mitigation Action Priority

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Cost?	Is Project Eligible for Outside Funding?	Can Project Be Funded Under Existing Programs/ Budgets?	Implementation Priority <sup>a</sup>	Outside Funding Source Pursuit Priority <sup>a</sup>	Social Equity Priority <sup>a</sup>
1	5	High	High	Yes	Yes	No	Medium	High	High
2	4	Medium	Low	Yes	No	Yes	High	Low	High
3	8	Medium	Low	Yes	No	Yes	High	Low	High
4	14	Medium	Low	Yes	No	Yes	High	Low	High
5	13	High	Low	Yes	No	Yes	High	Low	High
6	6	High	Medium	Yes	Yes	No	Medium	Medium	Medium
7	3	Medium	Medium	Yes	Yes	No	Medium	Medium	High
8	2	High	Medium	Yes	No	Yes	High	High	High
9	7	Medium	Medium	Yes	No	Yes	High	Low	Low
10	7	Medium	Medium	Yes	Yes	Yes	High	High	High
11	4	High	Medium	Yes	Yes	Yes	High	High	High
12	7	High	Low	Yes	No	Yes	High	High	High
13	8	Medium	Low	Yes	Yes	Yes	Medium	High	High
14	8	Medium	Low	Yes	No	Yes	High	Low	High
15	8	Low	High	No	No	No	Low	Low	Low
16	10	Low	Low	Yes	No	Yes	Low	Low	High
17	7	High	Medium	Yes	No	Yes	High	Low	High
18	7	Medium	Medium	Yes	Yes	No	Medium	Medium	High
19	9	Medium	Medium	Yes	Yes	Yes	Medium	Medium	High
20	6	Medium	Low	Yes	No	Yes	Medium	Low	Low
21	14	Medium	Low	Yes	No	Yes	Medium	Low	High
22	7	High	Medium	Yes	No	Yes	High	Low	High
23	6	Medium	Low	Yes	Yes	Yes	High	Low	High
24	6	High	Medium	Yes	Yes	Yes	High	High	High
25	7	Medium	Medium	Yes	Yes	Yes	High	Low	High
26	9	High	Low	Yes	Yes	Yes	High	High	High
27	4	High	Medium	Yes	Yes	Yes	High	High	High
28	5	Medium	Medium	Yes	Yes	Yes	High	Medium	Medium
29	4	Medium	Medium	Yes	Yes	Yes	High	Medium	Low
30	7	High	Low	Yes	Yes	Yes	High	Low	High
31	6	High	Low	Yes	Yes	Yes	High	Low	High
32	4	High	High	Yes	Yes	No	Medium	High	High
33	3	High	Low	Yes	Yes	Yes	High	Low	High
34	6	High	Medium	Yes	Yes	Yes	High	High	High

a. See the introduction to this volume for explanation of priorities.

**Table 12-16. Analysis of Mitigation Actions**

Hazard Type	Action Addressing Hazard, by Mitigation Type <sup>a</sup>							
	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilience	Community Capacity Building
<b>High-Risk Hazards</b>								
<b>Flood</b>	MPK-2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 26, 27, 28, 32, 33, 34	MPK-1, 2, 3, 7, 9, 11, 15, 16, 18, 26, 27, 28, 32, 34	MPK-5, 7, 12, 13, 16, 19, 30, 31	MPK-9, 10, 18, 26, 28, 32, 33, 34	MPK-4, 6, 7, 8, 11, 15, 19, 22, 27, 30, 31	MPK-2, 3, 5, 7, 9, 10, 11, 16, 17, 22, 27, 28, 33	MPK-2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 14, 18, 26, 27, 28, 32, 33, 34	MPK-1, 2, 5, 7, 16, 20
<b>Earthquake</b>	MPK-2, 3, 4, 7, 15, 16, 19, 22	MPK-1, 2, 3, 7, 15, 16, 23	MPK-7, 16, 19		MPK-4, 6, 7, 15, 19, 22, 23, 25	MPK-2, 3, 7, 16, 22, 23, 25	MPK-1, 2, 3, 7	MPK-1, 2, 7, 16
<b>Sea Level Rise / Climate Change</b>	MPK-2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 15, 16, 17, 18, 19, 22, 26, 27, 28, 32, 34	MPK-2, 3, 7, 9, 11, 15, 16, 18, 23, 26, 27, 28, 32, 33	MPK-5, 7, 12, 13, 16, 19, 21, 30, 31	MPK-9, 10, 18, 21, 26, 28, 32, 34	MPK-4, 7, 8, 11, 15, 19, 22, 23, 27, 28, 30, 31	MPK-2, 3, 5, 7, 9, 10, 11, 16, 17, 22, 23, 27, 28	MPK-2, 3, 5, 7, 8, 9, 10, 11, 12, 13, 18, 26, 27, 28, 32, 34	MPK-2, 3, 5, 7, 16
<b>Medium-Risk Hazards</b>								
<b>Severe weather</b>	MPK-9, 12, 13, 15, 16, 18, 19, 22, 24, 27, 28, 32, 33, 34	MPK-9, 11, 15, 18, 23, 24, 27, 28, 32, 34	MPK-12, 13, 19, 30, 33	MPK-9, 28, 32, 33, 34	MPK-11, 15, 19, 22, 23, 24, 25, 27, 28, 30, 31	MPK-9, 11, 16, 17, 22, 23, 24, 25, 27, 28, 33	MPK-9, 11, 12, 13, 27, 28, 32, 33, 34	MPK-16
<b>Low-Risk Hazards</b>								
<b>Landslide/ Mass Movements</b>	MPK-9, 19, 28	MPK-9, 28	MPK-19	MPK-9, 28	MPK-20, 28	MPK-9, 28	MPK-9, 28	
<b>Dam Failure</b>	MPK-9, 16, 19	MPK-9, 16	MPK-16, 19	MPK-9	MPK-19	MPK-9, 16	MPK-9	MPK-16
<b>Drought</b>	MPK-3, 4, 13, 19, 22, 28, 29	MPK-3, 23, 28, 29	MPK-13, 19	MPK-28	MPK-4, 19, 22, 23, 25, 28, 29	MPK-3, 22, 23, 25, 28, 29	MPK-3, 13, 28, 29	MPK-3
<b>Tsunami</b>			MPK-19		MPK-19			

a. See the introduction to this volume for explanation of mitigation types.

## 12.9 PUBLIC OUTREACH

Table 12-17 lists public outreach activities for this jurisdiction.

**Table 12-17. Local Public Outreach**

Local Outreach Activity	Date	Number of People Involved
City of Menlo Park Weekly Digest E-Newsletter Article <a href="https://www.menlopark.org/Blog.aspx?IID=1706">https://www.menlopark.org/Blog.aspx?IID=1706</a>	4/5/2021	1,748 recipients
City of Menlo Park Twitter Post <a href="https://twitter.com/CityofMenloPark/status/1379213717481656330">https://twitter.com/CityofMenloPark/status/1379213717481656330</a>	4/5/2021	1,286 followers
City of Menlo Park Facebook Post <a href="https://www.facebook.com/cityofmenlopark">https://www.facebook.com/cityofmenlopark</a>	4/9/2021	216 followers
City of Menlo Park Facebook Post <a href="https://www.facebook.com/cityofmenlopark">https://www.facebook.com/cityofmenlopark</a>	4/17/2021	270 followers

Local Outreach Activity	Date	Number of People Involved
City of Menlo Park Twitter Post <a href="https://twitter.com/CityofMenloPark/status/1384162400857776150">https://twitter.com/CityofMenloPark/status/1384162400857776150</a>	4/19/2021	392 followers
City of Menlo Park Weekly Digest E-Newsletter Article <a href="https://www.menlopark.org/Blog.aspx?IID=1747">https://www.menlopark.org/Blog.aspx?IID=1747</a>	5/24/2021	1,748 recipients
City of Menlo Park Email Blast	6/21/2021	2,811 residents
City of Menlo Park Nextdoor Post <a href="https://nextdoor.com/agency-post/ca/menlo-park/city-of-menlo-park/reduce-risks-and-local-hazards-reducir-los-riesgos-y-los-peligros-locales-191391580/">https://nextdoor.com/agency-post/ca/menlo-park/city-of-menlo-park/reduce-risks-and-local-hazards-reducir-los-riesgos-y-los-peligros-locales-191391580/</a>	6/21/2021	2,097 residents
City of Menlo Park Facebook Post <a href="https://www.facebook.com/cityofmenlopark">https://www.facebook.com/cityofmenlopark</a>	7/1/2021	409 followers
City of Menlo Park Weekly Digest E-Newsletter Article <a href="https://menlopark.org/Blog.aspx?IID=1786">https://menlopark.org/Blog.aspx?IID=1786</a>	7/26/2021	1,748 recipients
City Council Meeting - Informational Agenda Item <a href="https://www.menlopark.org/DocumentCenter/View/29396/N2-20210817-CC-Local-hazard-mitigation-plan-annex">https://www.menlopark.org/DocumentCenter/View/29396/N2-20210817-CC-Local-hazard-mitigation-plan-annex</a>	8/17/2021	5 Councilmembers and Public

## 12.10 INFORMATION SOURCES USED FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed to provide information for this annex.

- **City of Menlo Park Municipal Code**—The municipal code was reviewed for the full capability assessment and for identifying opportunities for action plan integration.
- **City of Menlo Park Flood Damage Prevention Ordinance**—The flood damage prevention ordinance was reviewed for compliance with the National Flood Insurance Program.
- **City of Menlo Park 2030 Climate Action Plan**—The CAP outlines goals and strategies related to environmental protection and climate change.
- **City of Menlo Park General Plan**—This comprehensive planning document contains many components related to local hazard mitigation planning.
  - Open Space/Conservation, Noise and Safety Elements (Adopted May 21, 2013)
- **Association of Bay Area Governments**—Data used for growth management summary (Plan Bay Area 2040)
- **California Department of Finance**—Data used for growth management summary (Table E-5, Population and Housing Estimates).
- **Accela**—City of Menlo Park online permitting software used for collecting development records.
- **City of Menlo Park Emergency Operation Plan**—The Plan was reviewed to identify the need to update it.
- **Climate Emergency Resolution No. 6535**—The resolution shows political support on addressing climate change.
- **Climate and Sustainability Resolution No. 6493**—The resolution shows political support to support the implementation of climate change adaptation strategies.
- **Amend the 2030 Climate Action Plan Resolution No. 6621**—The resolution includes the scope of work for 2021 implementation of the climate action plan.








- **Public Works Mutual Aid Agreement Resolution No. 6547**—The resolution enters the City into San Mateo County operational area building safety inspection program mutual aid program.

The following outside resources and references were reviewed:

- **Hazard Mitigation Plan Annex Development Toolkit**—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.
- **San Mateo County Flood and Sea Level Rise Resiliency District Hazard Mitigation Table**—Email correspondence with the District throughout Phase 3.

# Menlo Park

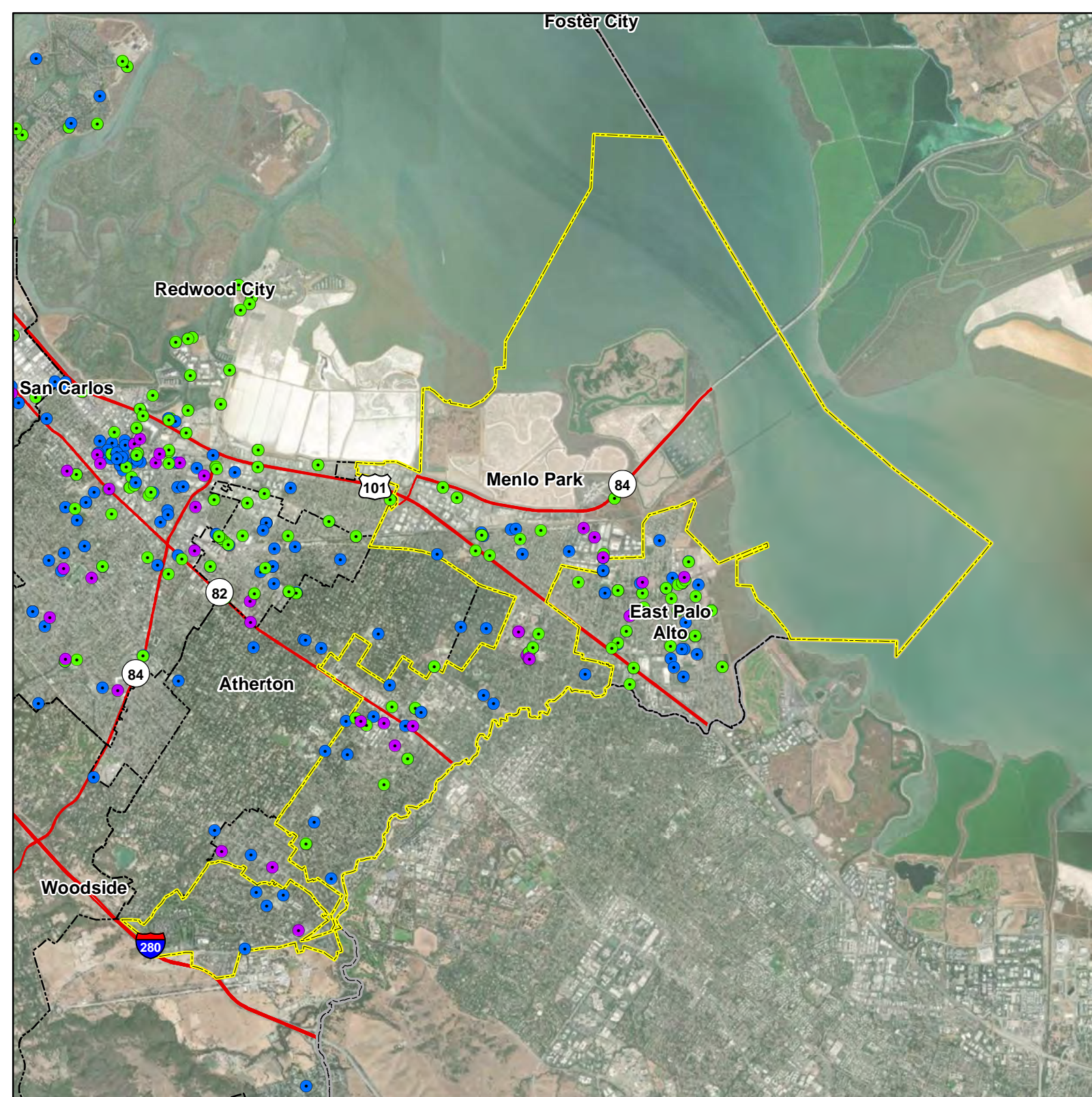
## Critical Facilities, 1 of 2

-  Food, Water, Shelter
-  Health and Medical
-  Safety and Security
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Data Sources: ESRI Basemap,  
San Mateo Co., DHS HIFLD



0 0.5 1 2 Miles



# Menlo Park

## Critical Facilities, 2 of 2

- Communications
- Energy
- Hazardous Materials
- Transportation
- ▭ Selected City
- ▭ Incorporated Cities
- ▭ County Boundary
- Highways

Data Sources: ESRI Basemap, San Mateo Co., DHS HIFLD









0 0.5 1 2 Miles



# Menlo Park

## Dam Failure Inundation Area Used for Risk Assessment

-  Inundation Area
-  Dam
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Data Sources: ESRI Basemap,  
San Mateo Co., CA DWR










0 0.5 1 2 Miles



# Menlo Park

## NEHRP Soil Class

-  C (Dense soil/soft rock)
-  D (Stiff soil)
-  E (Soft clay)
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Data Sources: ESRI Basemap,  
San Mateo Co., CGS



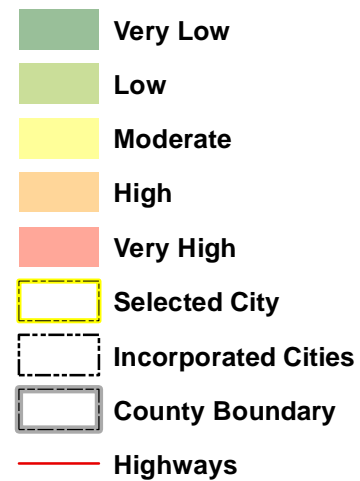
0 0.5 1 2 Miles



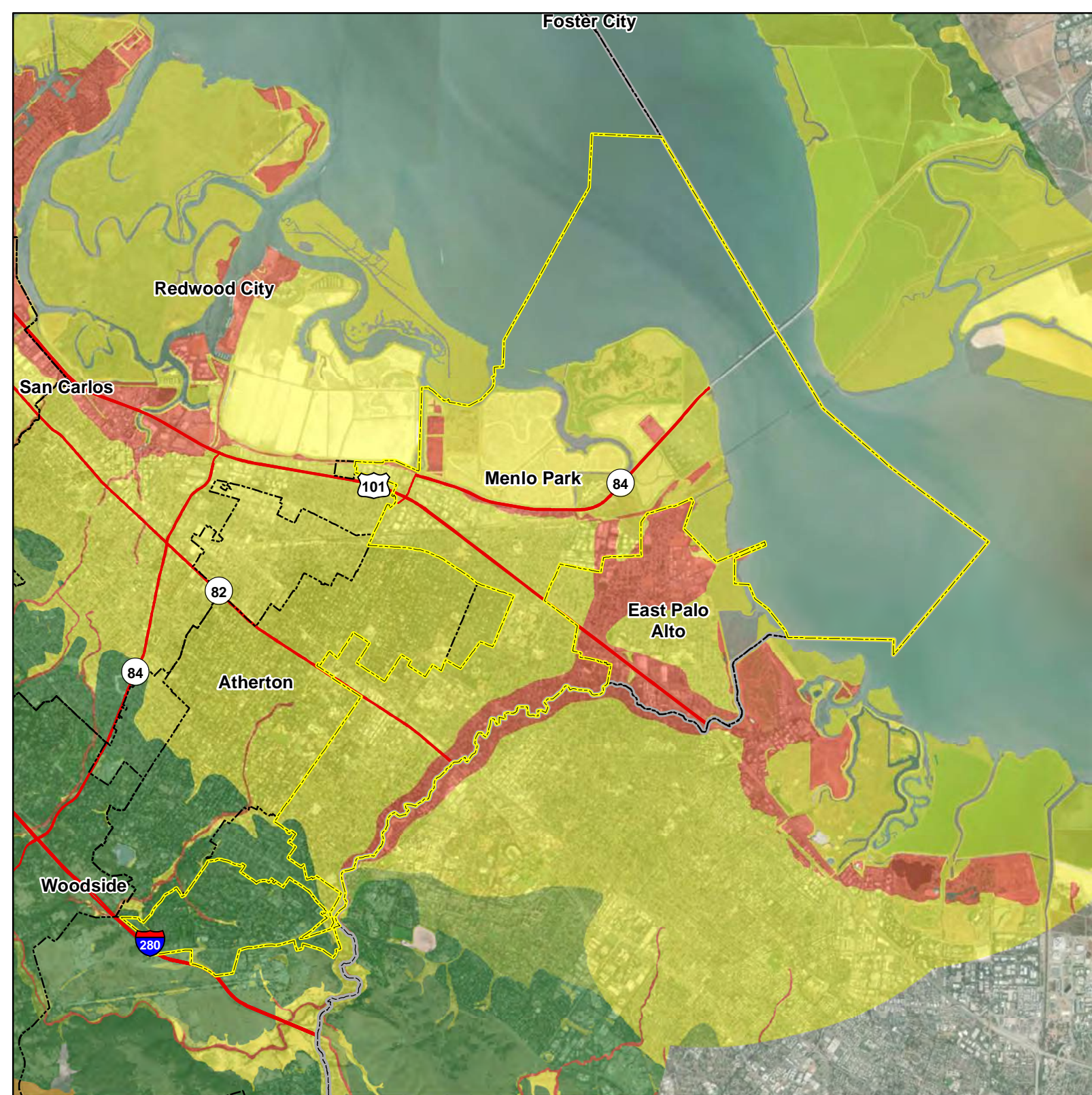
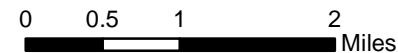


# Menlo Park

## Liquefaction Susceptibility



Data Sources: ESRI Basemap, San Mateo Co., ABAG (USGS)



# Menlo Park

## Butano M6.93 Earthquake Scenario

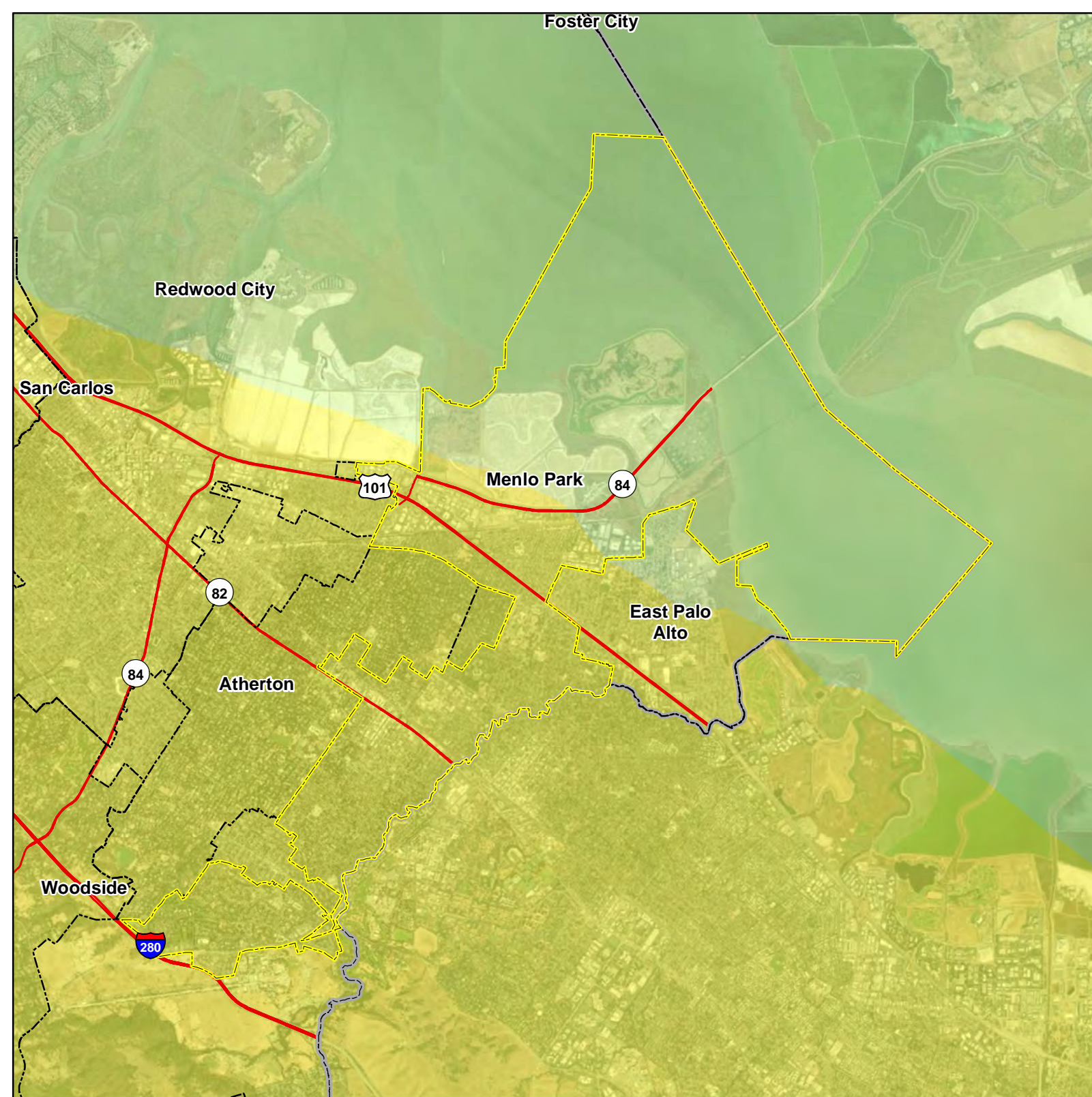
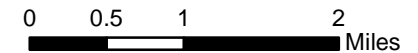
### Mercalli Intensity Scale

- VI (Strong/Light)
- VII (Very Strong/Moderate)

- Selected City
- Incorporated Cities
- County Boundary
- Highways

Intensity scale described as:  
(perceived shaking / potential damage)







Data Sources: ESRI Basemap,  
San Mateo Co., USGS



# Menlo Park

## Monte Vista Shannon M7.14 Earthquake Scenario

### Mercalli Intensity Scale

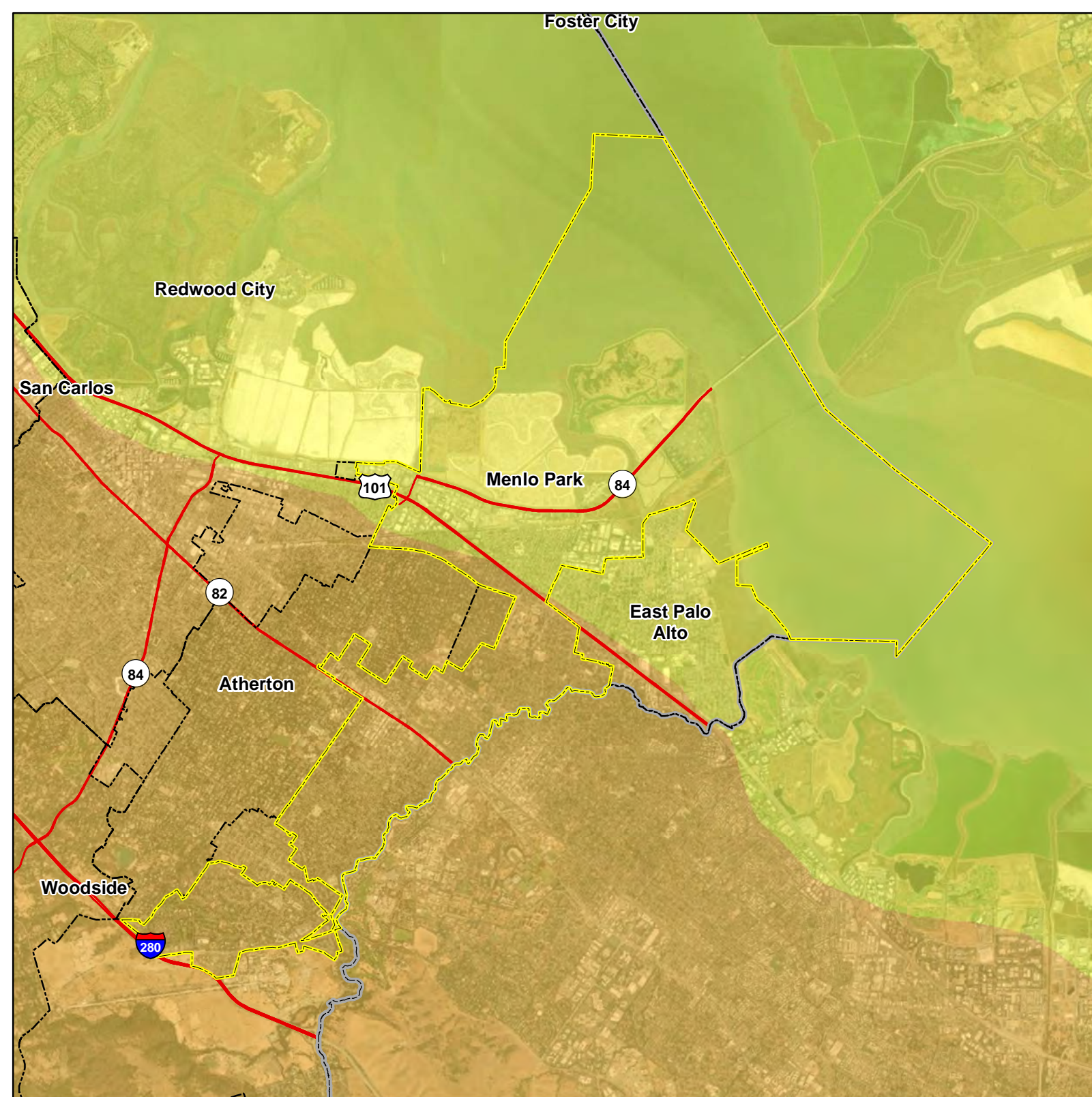
-  VII (Very Strong/Moderate)
-  VIII (Severe/Moderate-Heavy)
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Intensity scale described as:  
(perceived shaking / potential damage)

Data Sources: ESRI Basemap,  
San Mateo Co., USGS



0 0.5 1 2 Miles



# Menlo Park

## 100-Year Probabilistic Earthquake Scenario

### Mercalli Intensity Scale

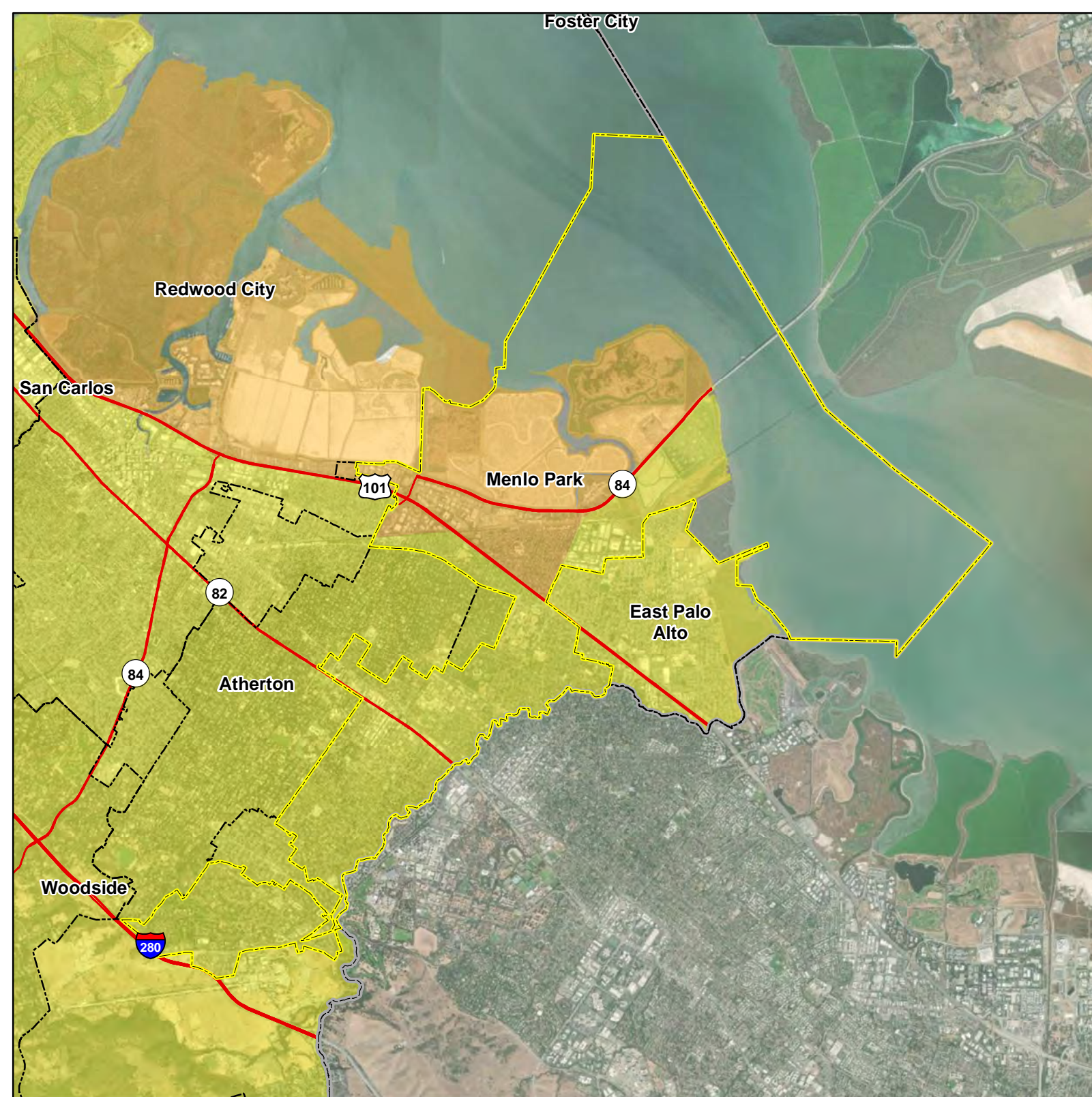
-  VII (Very Strong/Moderate)
-  VIII (Severe/Moderate-Heavy)
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Intensity scale described as:  
(perceived shaking / potential damage)

Data Sources: ESRI Basemap,  
San Mateo Co., USGS



0 0.5 1 2 Miles



# Menlo Park

## San Andreas Peninsula M7.38 Earthquake Scenario

### Mercalli Intensity Scale

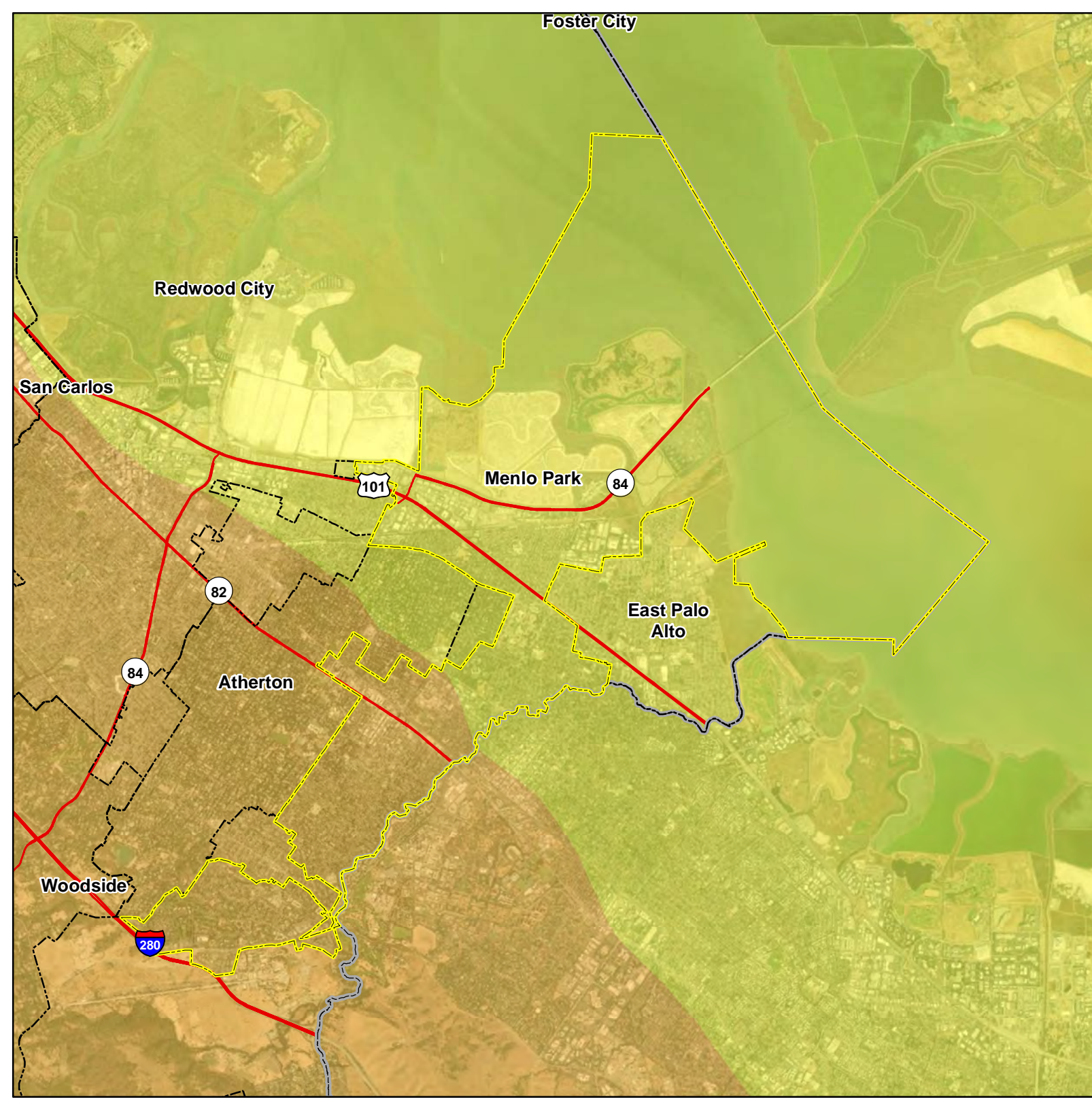
- VI (Strong/Light)
- VII (Very Strong/Moderate)
- VIII (Severe/Moderate-Heavy)
- Selected City
- Incorporated Cities
- County Boundary
- Highways

Intensity scale described as:  
(perceived shaking / potential damage)

Data Sources: ESRI Basemap,  
San Mateo Co., USGS



0 0.5 1 2 Miles



# Menlo Park

## San Gregorio North M7.44 Earthquake Scenario

### Mercalli Intensity Scale

- VI (Strong/Light)
- VII (Very Strong/Moderate)

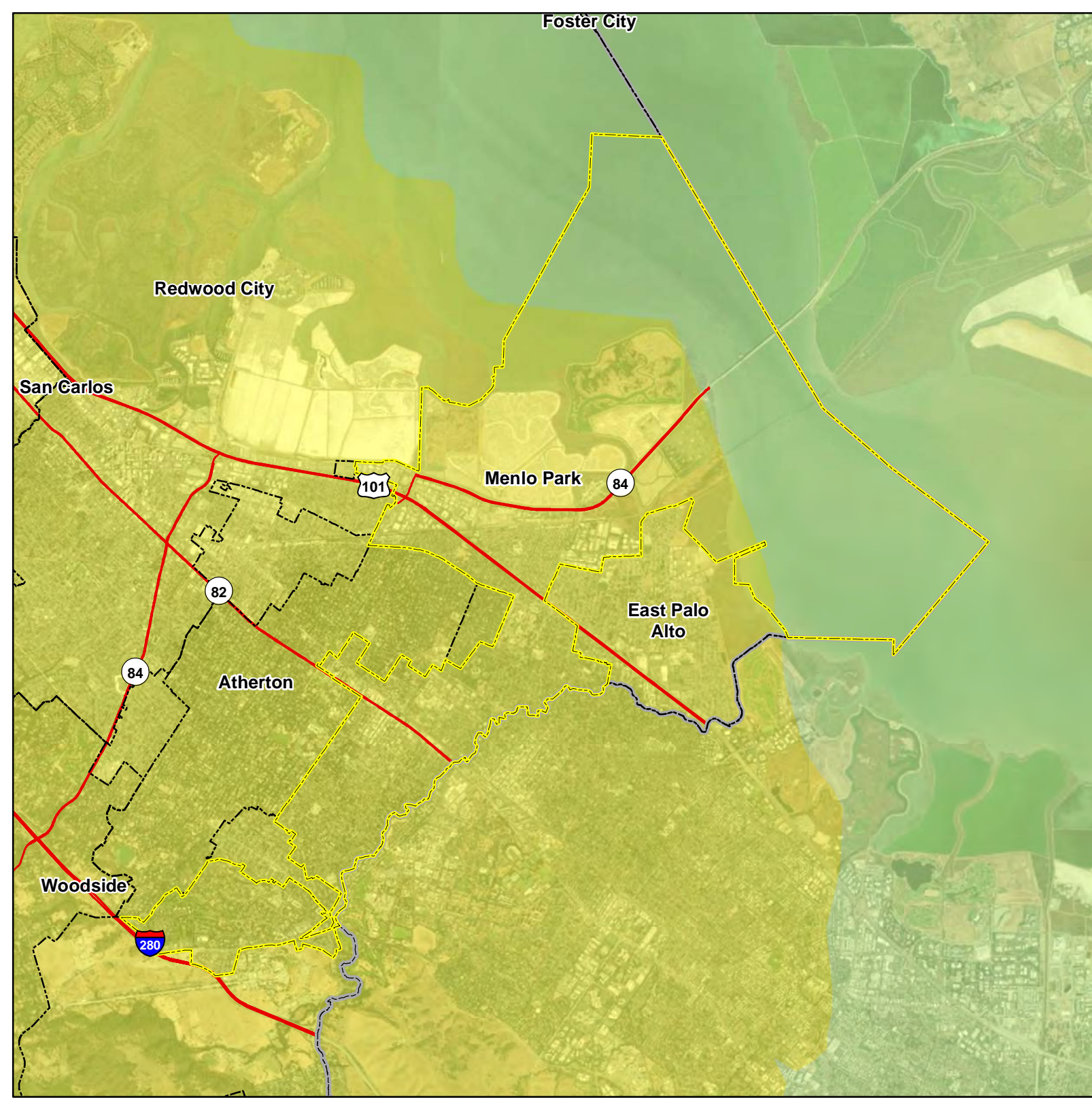
- Selected City
- Incorporated Cities
- County Boundary
- Highways

Intensity scale described as:  
(perceived shaking / potential damage)

Data Sources: ESRI Basemap,  
San Mateo Co., USGS









0 0.5 1 2 Miles



# Menlo Park

## FEMA Flood Hazard Areas

-  1% Annual Chance Flood (100-Year)
-  0.2% Annual Chance Flood (500-Year)
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Data Sources: ESRI Basemap, San Mateo Co., FEMA

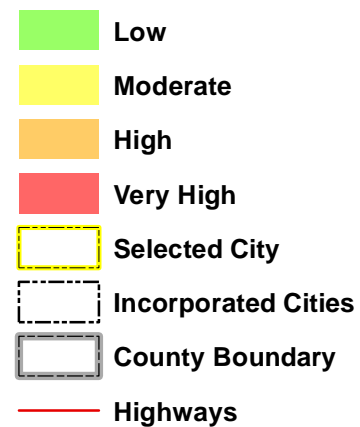


0 0.5 1 2 Miles

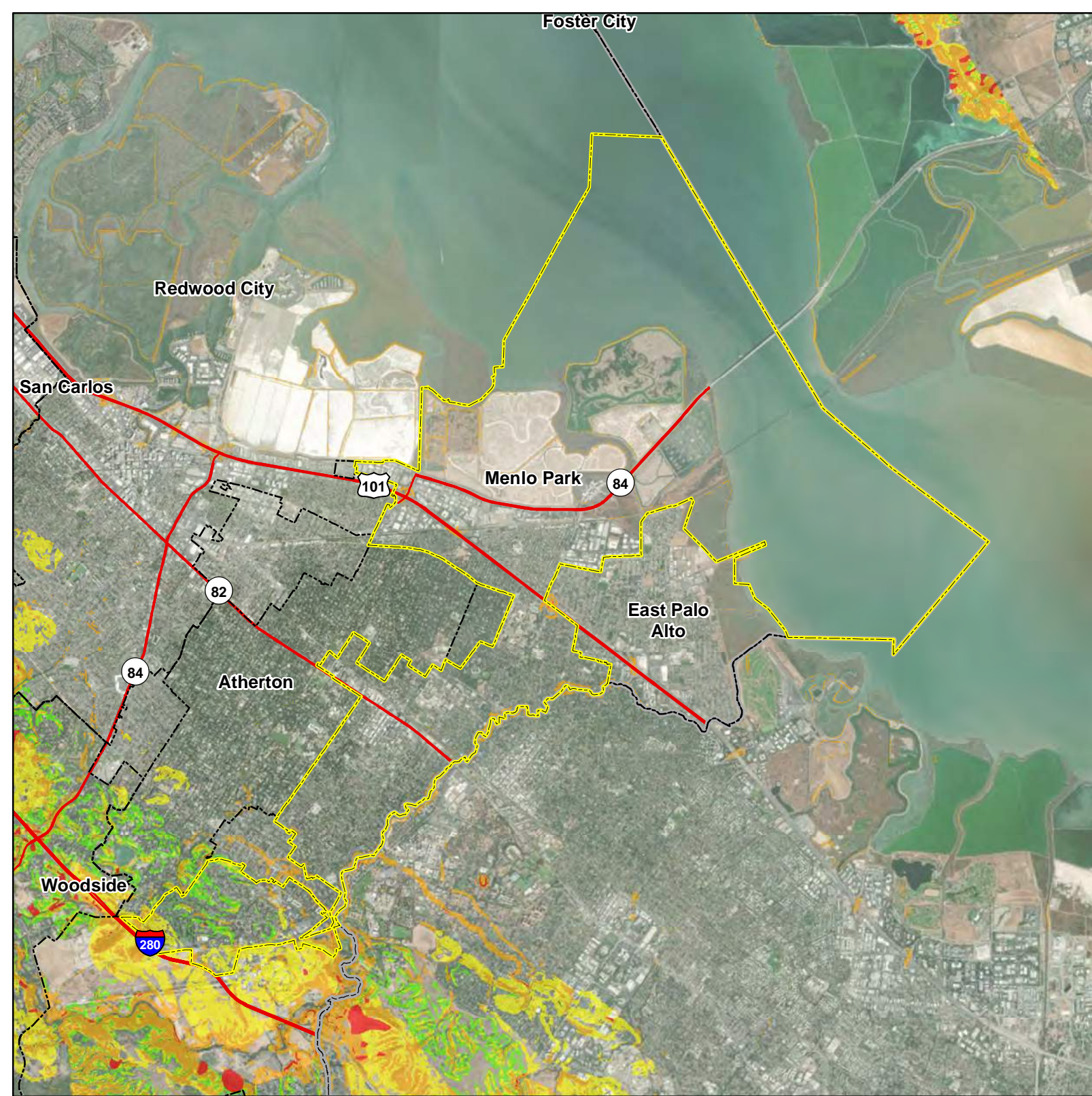
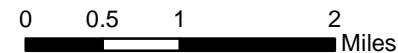


# Menlo Park

## Susceptibility to Deep-Seated Landslides








Data Sources: ESRI Basemap, San Mateo Co., CGS





# Menlo Park

## Sea Level Rise

-  Inundation Area
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways






Inundation areas are a combination of Our Coast Our Future 200cm (6.6 feet) of SLR with 100-year storm for the Pacific Ocean coastline, and Adapting to Rising Tides 108 inches (9 feet) of SLR for the San Francisco Bay coastline.

Data Sources: ESRI Basemap, San Mateo Co., ART, OCOF



# Menlo Park

## Tsunami Hazard Areas

-  Hazard Areas
-  Selected City
-  Incorporated Cities
-  County Boundary
-  Highways

Data Sources: ESRI Basemap,  
San Mateo Co., CGS

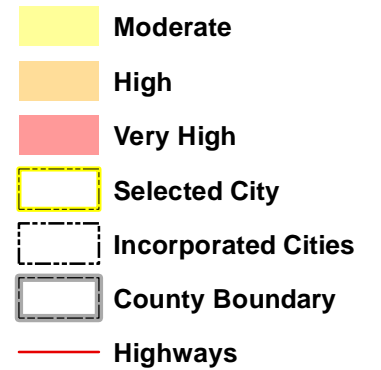


0 0.5 1 2 Miles



# Menlo Park

## Wildfire Hazard Severity Zones



Data Sources: ESRI Basemap, San Mateo Co., CAL FIRE

