



## **Roseville Multi-Hazard Mitigation Plan 2013 PROGRESS REPORT**

### **Reporting Period**

August 2012 through August 2013

### **Background**

Following a tradition of progressive and innovative planning, the City of Roseville City Council approved the Roseville Multi-Hazard Mitigation Plan-update (RMHMP) on January 3, 2011. The RMHMP details the City's vision for reducing risk from all hazards by identifying resources, information, and strategies for risk reduction. Responding to programmatic requirements defined under the Disaster Mitigation Act of 2000, the City embarked on a 10-month planning process to update the 2005 RMHMP that was scripted to provide as many tangible benefits for the City from this single planning effort. Primarily, these benefits are associated with grant funding eligibility and meeting all requirements to maintain the nation's only Class 1 rating under FEMA's Community Rating System (CRS). The plan was adopted by the City Council on January 3, 2011, and approved by FEMA Region IX for compliance with Section 201.6, Chapter 44 of the Code of Federal Regulations on March 28, 2011. By completing this process, the City has achieved compliance with the parameters of the Disaster Mitigation Act and leveraged hazard mitigation grant funding opportunities afforded under the Robert T. Stafford Act. The plan is available to the public through the City of Roseville Public Library online at the following website:

[https://www.roseville.ca.us/fire/preparedness/hazard\\_mitigation\\_plan.asp](https://www.roseville.ca.us/fire/preparedness/hazard_mitigation_plan.asp)

### **Benefits of Mitigation Planning**

Maintenance of this plan enables the City of Roseville to pursue hazard mitigation grant funding afforded under the Robert T Stafford Act and administered by FEMA. This plan acts as the keyway to this funding by meeting a principle prerequisite, having a FEMA approved Hazard Mitigation Plan. This is very important to Cities like Roseville which have leveraged funding from these programs in the past to significantly reduce risk to natural hazards within the City.

### **Summary Overview of the Plan's Progress**

The performance period for the Hazard Mitigation Plan became effective on March 28, 2011, with the final approval of the plan by FEMA. The initial performance period for this plan is 5 years, with an update anticipated before March 2016. As of the most recent reporting period, the performance period for this plan is considered to be 86% complete. The Hazard Mitigation Plan identified 63 hazard mitigation initiatives to be pursued during the 5-year performance period. As of the most recent reporting period, the following overall progress can be reported:

***54 out of 63 initiatives (86%) reported ongoing action toward completion.***

***9 out of 63 initiatives (14%) reported no action taken.***

**Purpose**

The purpose of this report is to provide the Roseville City Council, stakeholders and the citizens an annual update on the implementation of the action plan identified in the Roseville Multi-Hazard Mitigation Plan. This report has been prepared by the planning team and was reviewed and confirmed by the RMHMP Steering Committee in accordance with Part 5, Chapter 19.4 of the Plan. The RMHMP Steering Committee reviewed and approved this progress report at their annual meeting held September 16, 2013. The objective of this annual evaluation is to ensure that there is a continuous planning process that keeps the RMHMP dynamic and responsive to the needs and capabilities of the stakeholders. This report discusses the following:

- Natural hazard events that have occurred within the last year
- Changes in risk exposure within the planning area
- Mitigation success stories
- Review of the action plan
- Changes in capability in the planning area that could impact plan implementation
- Recommendations for changes/enhancement

**The RMHMP Steering Committee**

The update to the RMHMP was overseen by a steering committee appointed by the Roseville City Council and made up of stakeholders within the planning area. This oversight committee operated under a set of ground rules that they helped to establish and that supported the primary objectives of the planning process. During the plan’s development process, the Steering Committee agreed that they would remain as a viable body to oversee the maintenance aspects of the plan as established in Chapter 7. The Steering Committee continues as organized in the established ground rules. Annual turnover in its membership is monitored via the progress reporting mechanism. It is anticipated the Steering Committee’s role in overall plan implementation will evolve, based on the hazard mitigation needs of the city. At a minimum, the Steering Committee provides technical review and oversight on the development of the annual progress report. For this reporting period, the Steering Committee Membership is as indicated in Table 1.

<b>TABLE 1 2013 STEERING COMMITTEE MEMBERS</b>		
Name	Title	Jurisdiction or Agency
Grace Keller, Chair	Member	Community Emergency Response Team
Erik Angle	Office of Emergency Preparedness	Sutter Roseville Medical Center
Troy Bergstrom	Police Lieutenant	Roseville Police Department
Brenette MacIntosh	Risk Management Dept	SureWest
Mark Lacher	Risk Management Dept	SureWest
Jessie Monnier	Administrator	Roseville Surgery Center
George Booth	Citizen	Sacramento Department of Water Resources and Roseville Resident
Pete Hnat	Division Chief/Emergency Preparedness Manager	Roseville Fire Department
Mike Isom	Development & Operations Manager	Roseville City Manager’s Office

**TABLE 1  
2013 STEERING COMMITTEE MEMBERS**

Name	Title	Jurisdiction or Agency
Jennifer Johnson	Manager, Hazardous Materials	Union Pacific Railroad
Jason Rizzi	Division Chief/Fire Marshal	Roseville Fire Department
Rod Rodriguez	Emergency Services Specialists II	County of Placer Office of Emergency Services
Carl Walker	Senior Civil Engineer	Roseville Public Works Floodplain Management
Jim Williams	Citizen	Meadow Oaks Neighborhood

## Natural Hazard Events in the Planning Area

During the reporting period, the following hazard events impacted the planning area:

- May 23, 2013- A magnitude 5.7 earthquake with an epicenter near Lake Almanor impacted the City. No major damage was reported. The event most probably occurred on or close to the northern end of the Indian Valley fault and is unusual because these faults do not appear to have experienced significant recent fault movement (within the last 200 years).
- June 21, 2013-A large grass fire located in Maidu Regional Park burned multiple structures in Roseville and forced evacuations. The fire consumed 33 acres and destroyed 3 homes.
- December 2, 2012 –Intense rainfall during the early morning hours caused localized street flooding. While no structures were impacted by creek levels, two apartment buildings were impacted due to local drainage systems:
  - o 2900 Quail Ridge West / 1051 Junction Blvd
    - Approximately 8-inches of water damage
    - 3 apartments flooded
    - 20 people were impacted
  - o Local Flooding – 333 Cirby Way
    - Approximately 20-inches of water damage
    - Units 14-51 were evacuated
    - 60 people impacted
    - Pedestrian foot bridge was under water
  - o Level II Hazmat – raw sewage
    - City / County Event
    - Multiple sewer access covers leaked raw sewage
    - City Environmental Utilities Department addressed sewage spills

## Changes in Risk Exposure in the Planning Area

The RMHMP update addressed the probable impact for the following natural hazard events within the City of Roseville:

- Dam Failure
- Drought
- Earthquake
- Flood
- Landslides
- Human-Caused Hazards
- Human Health Hazards
- Severe Weather
- Wildland Fire

During the reporting period, there was no occurrence of any natural hazard event within the planning area that would alter or change the probability of occurrence, or ranking of risk for the natural hazards addressed by the RMHMP.

## Mitigation Success Stories

During the current reporting period, the City had a number of mitigation success stories that reflect the City's commitment to multi-hazard mitigation and the philosophy that the City Council and staff are responsible for the good stewardship of our resources.

### **Reorganization of City Departments**

In November 2012, the City Council authorized the creation of a new Development Services Department, and adopted strategies to restructure the existing Public Works Department:

- The new Development Services Department functions include building plan check and inspection, engineering plan check and inspection, planning department functions, and code enforcement.
- The Public Works Department functions were restructured to include capital projects, traffic operations, floodplain management, street maintenance, and alternative transportation.

Reorganization of the Public Works Department and creation of the new Development Services Department consolidates the chain of command for several divisions responsible for implementation of various mitigation initiatives under one Department. The initiatives in the Action Plan Matrix in this report have been distributed to reflect the City's reorganization.

### **Emergency Operation Center Drills and Incident Activations**

On December 2, 2012, the City activated its Emergency Operations Center due to reports of localized street flooding. The City EOC was open for 4 hours, to monitor creek levels, coordinate operations responses, and communicate updates to the public and media. While no structures were impacted by creek levels, two apartment buildings were impacted due to local drainage systems.

On June 11, 2013, City Emergency Management staff conducted an EOC activation drill in response to a mock tornado event originating in large residential area. The drill's scenario also included coordinating a response to significant damages to significant electrical infrastructure. The objectives of the EOC activation drill included the development of Department Operations Centers (DOC) throughout the City, to reduce the workload in the EOC.

The EOC activations and drills created an opportunity for the City staff to evaluate successes in Emergency Management, which included:

- The ability to scale-up resources and personnel and ratchet-down worked well.

- Good shelter coordination with American Red Cross
- Public information through social media was practiced in a real disaster mode
- The pre-storm briefings were instrumental in preparing all the necessary city department
- Interagency cooperation and coordination was demonstrated at the local and regional levels
- Tested the ability of EOC and DOC to communicate using alternative means, such as HAM radio

## Review of the Action Plan

This section reviews the action plan and lists the status of each initiative from the hazard mitigation plan, grouped by the agency or department responsible for its completion. The action plan matrix in Table 2 provides the following information:

- Initiative number and brief summary; initiative numbers are coded by hazard type as follows:
  - DF = dam failure
  - D = drought
  - EQ = earthquake
  - F = flood
  - HC = human-caused hazards
  - HH = human health hazards
  - LS = landslides
  - SW = severe weather
  - WF = wildland fire
  - MH = multiple hazards
- Indication of whether any action has been taken
- Current timeline
- Indication of whether the project priority has changed
- Status (complete, ongoing or no progress)
- Comments, including the following information:
  - Was any element of the initiative carried out during the reporting period?
  - If no action was completed, why?
  - Is the timeline for implementation for the initiative still appropriate?
  - If the initiative was completed, does it need to be changed or removed from the action plan?

Part 4 of the plan provides detailed descriptions of each initiative and the prioritization process.

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<b>Central Services Department Initiatives</b>				
Initiative #F-21—Retrofit the city’s Downtown library by sealing the exterior and installing a flood door to protect against flood damage should Dry Creek overspill the existing floodwall.				
No	Long Term	No	No action was completed on this initiative during the reporting period. Priority and time line remain as assigned. Project priority should be changed to medium and time line should be cahnged to long-term pending the indentification of funding for this project.	No Progress
<b>City Council Initiatives</b>				
Initiative #HC-3—Seek to establish appropriate staffing levels of public safety personnel to address vulnerabilities identified.				
Yes	Short Term	No	The Police and Fire Chiefs meet quarterly with the City Manager to discuss staffing levels and needs based on current trends, population growth, and calls for service.	Ongoing
<b>City Manager’s Office Initiatives</b>				
Initiative #HH-3—Collaborate with the Placer County Mosquito Abatement District to review resource protection policies that conflict with human health protection in the City of Roseville and work to resolve these policy issues				
Yes	Short Term	No	The Placer Mosquito Abatement District and Roseville Environmental Coordinator is working together to both protect open space and wetland areas while limiting the amount of habitat for mosquitoes and vectors.	Ongoing
<b>Communication Division Initiatives</b>				
Initiative #HH-2—Support the public education efforts of the Placer County Health Department and the Placer Mosquito Abatement District				
Yes	Short Term	No	The City supports the public education efforts of the Health Department and Mosquito Abatement District through print, government access television, and web materials. The City has also had significant assistance from the District on public outreach efforts for rodent control through presentations at neighborhood meetings.  The Placer Mosquito Abatement District purchased a building in Roseville at 2021 Opportunity Drive and moved a majority of the operations to Roseville. This will enhance the availability of resources in closer proximity to Roseville residents and the mosquito-breeding areas west of Roseville.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<p>Initiative #MH-2—Continue to maintain the hazard mitigation page on City website that provides following types of information:</p> <ul style="list-style-type: none"> <li>• The Hazard Management Plan and its progress reports</li> <li>• Hazard-specific information</li> <li>• Mitigation information by hazard, with specific emphasis on private property</li> <li>• Emergency response and warning information</li> <li>• Links to county, state, and federal related agencies</li> </ul>				
Yes	Short Term	No	<p>This is an on-going action. The City continues to maintain its website as specified in the plan maintenance section of the plan. The website can be viewed at:</p> <p><a href="http://www.roseville.ca.us/fire/preparedness/hazard_mitigation_plan.asp">http://www.roseville.ca.us/fire/preparedness/hazard_mitigation_plan.asp</a></p>	Ongoing
<b>Development Services Department Initiatives</b>				
<p>Initiative #EQ-1—Perform building-specific, structural seismic vulnerability assessment of City- owned critical facilities constructed prior to 1980 (including infrastructure). Included in this assessment will be recommended mitigation alternatives that meet goals and objectives of this plan.</p>				
No	Long Term	Yes	<p>Major construction on any city-owned building would require an assessment of the seismic vulnerability. The City will be applying for a Planning Grant under FEMA’s various Hazard Mitigation Grant programs. This initiative will be included in the scope of work for updating the risk assessment to the plan. Priority should be changed to medium while timeline should be changed to long-term</p>	No Progress
<p>Initiative #EQ-2—Incorporate earthquake mitigation measures for private property into existing City-sponsored outreach programs such as printed media and the City’s website.</p>				
Yes	Short Term	No	<p>The California Building Officials (CALBO) website has consumer web pages and one in particular regarding Seismic Safety. The site will be upgraded and improved over time with more value to the average consumer regarding measures to improve earthquake safety.</p>	Ongoing
<p>Initiative #EQ-3—Reassess the overall vulnerability to the earthquake hazard using the best available science and technology as it becomes available. State-sponsored programs, Seismic Hazards Mapping Act, and future FEMA-sponsored initiatives are anticipated to create a wealth of knowledge regarding this hazard that did not exist during the preparation of this plan.</p>				
Yes	Short Term	No	<p>Council has updated the maps for the Roseville area. The Public Works Department and Building Division anticipate review and implementation of the new mapping in conjunction with the International Building Council in 2008. The seismic risk assessment of the plan was updated using FEMA’s enhanced HAZUS model (MR04) during the plan update process. The 2010 California Building Code based upon the International Building Code has been adopted by the City.</p>	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<p>Initiative #F-1—The City shall designate all areas identified as the 100-year floodplain. The boundaries of the 100-year floodplain shall be as specified in the floodplain designations section of this component of the city’s general plan. Floodplain areas shall be preserved as specified in the open space and conservation element. Such preservation may include required dedication to the City. If needed, modify the City’s ordinances to include floodplain use regulations consistent with the goals, policies, and implementation measures of the safety, land use, open space and conservation, and parks and recreation elements of the City’s general plan.</p>				
Yes	Long Term	No	<p>The city continued to implement its ongoing protocols and standard for identifying, mapping, and preserving the 100 yr floodplain during this reporting period. This initiative will continue to be implemented on an on-going basis, with a high priority. To comply with the new state Urban Level of Flood Protection, the City has contracted with a qualified engineering firm to determine the 200-year water surface elevation for the City's streams and areas that could potentially be inundated with 3 feet or more of floodwater during a 200-yr storm event.</p>	Ongoing
<p>Initiative #F-2—Refer any development proposal that has a direct or indirect impact on flood protection to Public Works for comment. In addition, forward such proposals to other agencies as applicable, including the U.S. Army Corps of Engineers, California Central Valley Flood Protection Board, FEMA, California Department of Fish and Game, Placer County Resource Conservation District, and Placer County Flood Control District. Consider the comments of the agencies during the development review process.</p>				
Yes	CHOOSE	No	<p>The city continued to implement its ongoing protocols and standard for reviewing flooding impacts that may be caused by new developments and forward such developments to other agencies as applicable during this reporting period. This initiative will continue to be implemented on an ongoing basis, with a high priority. The PCFCD has completed a region-wide update of the Dry Creek Watershed Flood Control Plan in November 2011.</p>	Ongoing
<p>Initiative #F-9—Ensure that future specific plans and specific plan amendments are consistent with the goals and policies of the general plan. The specific plans shall include the designation and preservation of floodplain areas and adjacent habitat. Provisions shall be incorporated to ensure that public infrastructure, utilities, and emergency services remain functional during flood conditions. Such infrastructure and facilities include water, sewer and gas mains, telephone and electric lines, streets and bridges, hospitals, and fire and police stations. Financing mechanisms shall be explored to fund necessary flood protection improvements and maintenance. Development agreements may be used to secure implementation and funding provisions. (Specific plans have 100% cost recovery by developers).</p>				
Yes	Long Term	No	<p>The city continued to implement its protocols and standard for reviewing proposed public infrastructure, utilities, and other emergency services so that they would remain functional during flood during this reporting period. This initiative will continue to be implemented on an ongoing basis, with a high priority. The Sierra Vista, Creekview, and Amoruso Ranch Specific Plans are currently begin processed by the City. The areas designated as floodplain and/or natural resource conservation areas will be preserved as permanent open space, consistent with General Plan policy and this action item.</p>	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #F-11—Require a master drainage plan as part of the approval process for all specific plans and large development projects as determined by the Public Works director. The master drainage plan should consider cumulative regional drainage and flooding mitigation. The plan’s intent is to ensure that the overall rate of runoff from a project does not exceed predevelopment levels. If necessary, this objective shall be achieved by incorporating run-off control measures to minimize peak flows and/or assistance in financing or otherwise implementing comprehensive drainage plans.				
Yes	Long Term	No	The City is working with developers to prepare a master drainage and flood study for the Sierra Vista, Creekview, and Amoruso Ranch Specific Plans. The priority and timeline for this initiative will remain as assigned.	Ongoing
Initiative #LS-2— Continue to implement policies adopted by the general plan that promote open space land uses within identified steep slope areas of Roseville. The City of Roseville Northeast Roseville Specific Plan and Stoneridge Specific Plans include the identified steep slope areas within Roseville. Both plan areas have continuing development.				
Yes	Short Term	No	The City of Roseville Northeast Roseville Specific Plan and Stoneridge Specific Plans include the identified steep slope areas within Roseville. Both plan areas have continuing development. When individual projects are submitted, for example a housing development along a ravine in the Stoneridge area, all City development departments and the Fire Department enforce the General Plan, Specific Plan, City construction standards and individual project conditions to protect the steep slope open space that is dedicated to the City as part of the final maps for the projects.	Ongoing
Initiative #MH-1—Continue to maintain Office of Emergency Services certification of all City inspectors for post-disaster damage assessment.				
Yes	Short Term	No	Yes OngoingHigh All building inspectors are OES certified and have been recertified this year. The Building Division will continue to make sure staff keeps their certifications updated and that the certifications are documented per the International Accreditation requirements.	Ongoing
<b>Environmental Utilities Department Initiatives</b>				
Initiative #D-1—Perform a groundwater recharge feasibility study to determine the most cost-effective way to replenish groundwater resources within Roseville.				
Yes	Long Term	No	The City completed a program-wide Environmental Impact Report review under the California Environmental Quality Act requirements. The Environmental Impact Report was adopted by the City Council on March 21, 2012. The City is waiting for an operating permit by the State/Regional Water Quality Control Board. Currently, the City is implementing this action by injecting excess treated surface water into two existing wells and constructing two additional groundwater wells with partial grant funding by the California Department of Water Resources.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #D-2—Implement aquifer storage and recovery program that uses direct injection technique in areas identified as appropriate.				
Yes	Long Term	No	EU is currently implementing this action by injecting treated drinking water into two wells. Two more wells will be in construction in 2013 and 2014 to increase the injection capabilities.	Ongoing
Initiative #D-3—Continue to implement the Environmental Utility Department’s recycled water program and seek all opportunities to expand its coverage, currently focusing on urban growth areas. The City pumps recycled water through a system of purple pipes completely separate from potable (drinking water) pipes. The City pumps the recycled water to customers such as streetscapes, golf courses and parks, where it irrigates turf and shrubs. Using recycled water for uses such as landscape irrigation reduces demand on the potable water system, creating a more reliable water supply for the entire City. Recycled water is not subject to the effects of drought.				
Yes	Short Term	No	A Water Recycling Master Plan has been developed and is being implemented. This includes expanding recycled water in the region as well as finding opportunities in the existing service areas. Recycled water is considered as a resource in all new development areas being considered.	Ongoing
Initiative #D-4—Promote active water conservation techniques and strategies to private property owners through Roseville-sponsored outreach projects such as printed media and the City’s website.				
Yes	Short Term	No	A Water Recycling Master Plan has been developed and is being implemented. This includes expanding recycled water in the region as well as finding opportunities in the existing service areas. Recycled water is considered as a resource in all new development areas being considered.	Ongoing
Initiative #F-19—Set back and raise the sewer ponds levees at the Dry Creek Sewer Plant so raw sewage will not enter Dry Creek.				
Yes	Short Term	No	The construction of the Dry Creek Wastewater Treatment Plant Levee Relocation Project was completed in November 2011.	Complete
Initiative #HC-5—Address vulnerabilities identified in vulnerability assessment of water facilities performed by the Environmental Utilities Department in response to EPA initiative.				
Yes	Long Term	No	A Water System Security CIP was completed several years ago by the Environmental Utilities Department and continues to be updated as new facilities come on line. The project enhanced the physical security of water facilities with video monitoring and access control. Timeline for this initiative has been changed from long-term to on-going.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<b>Initiative #SW-5—Enhance and implement strategies for debris management and removal during severe weather events.</b>				
Yes	Short Term	No	No change in the debris management and removal strategy that adopted in 2009. The Parks and Open Space Divisions implemented an Emergency action plan for storm situations. The Open Space Division Department purchased a new bucket truck this fiscal year that aids in the removal of hazardous and storm damaged trees.	Ongoing
<b>Information Technology Department Initiatives</b>				
<b>Initiative #HC-9—Protect the city’s data, technology infrastructure and staff against malicious cyber-attacks and Cyber terrorism, such as but not limited to:</b>				
<ul style="list-style-type: none"> <li>• Identity Theft</li> <li>• Virus/Malware/Spyware/Spam</li> <li>• Network and system attacks</li> <li>• Web site hacking</li> <li>• Denial-of-service attacks</li> </ul>				
Yes	Short Term	No	<p>The Information Technology Department uses several technologies to combat Cyber terrorism including:</p> <ul style="list-style-type: none"> <li>• Anti-phishing capability</li> <li>• Internet content filtering</li> <li>• PCI-DSS compliance</li> <li>• Virus, malware, spyware and spam scanning</li> <li>• Perimeter firewalls report and prevent intrusions</li> <li>• Secure authentication</li> </ul>	Ongoing
<b>Initiative #MH-7—Strive to maintain high availability of essential communication services</b>				
Yes	Short Term	No	<p>For the Communication and Information Systems:</p> <p>The city has a fully functional secondary data center which contains redundant hardware infrastructure. In the event of an extended outage; procedures are in place to restore the following essential communication and information services:</p> <ul style="list-style-type: none"> <li>• City phone system</li> <li>• Electronic Mail</li> <li>• Essential Network Services</li> <li>• Servers</li> </ul> <p>The city’s primary radio system has redundant components throughout. In addition the Police and Fire departments have alternative and independent systems in case the primary system fails.</p>	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<b>Initiative #MH-8—Secure the city’s physical locations that contain technology infrastructure</b>				
Yes	Short Term	No	Both of the cities data centers are armed with perimeter alarm systems and internal and external security cameras. Also access to these sites is restricted to a limited number of city employees. In addition, vendors and visitors will be required to sign in and be escorted.	Ongoing
<b>Parks and Recreation Department Open Space Division Initiatives</b>				
<b>Initiative #F-12—Continue the Parks and Recreation Department’s regular creek maintenance program within the City’s creeks and floodplain areas. This program clears and removes debris that could contribute to blockage and flooding and may include the removal of silt. This is only done in areas of high risk to flood damage or where property or facilities are threatened by flooding.</b>				
Yes	Long Term	No	The city continued to implement its ongoing protocol of inspecting and maintaining its creeks and streams during the reporting period. The Department of Fish and Wildlife executed a five-year Routine Maintenance Agreement with the City in April 2010 for work that is ongoing this summer. During the reporting period, the City of Roseville worked with the Placer County Resource Conservation District to remove Red Sesbania from stream segments within the Dry Creek basin. This initiative will continue to be implemented on an ongoing basis, with a high priority. The City will continue to seek grant funding opportunities from FEMA and state agencies, when available, to assist in funding Arundo eradication along infested stream channels in the Dry Creek watershed.	Ongoing
<b>Initiative #F-22—Continue the Tree Mitigation Fund program administered by the Open Space Division in conjunction with non-profit organizations. The planting of oak trees in the open spaces adjacent to riparian zones increases infiltration and slows storm water surges.</b>				
Yes	Short Term	No	The Tree Mitigation program for native oak woodland restoration uses oak mitigation funds for projects in the open spaces. Over 7000 trees have been planted to date.	Ongoing
<b>Initiative #F-23—Manage beaver dam sites for flood control protection and habitat restoration after dam removal. One primary issue is impacts to floodwater capacity of creeks. Part of the desired comprehensive approach to beaver management includes establishment of quantitative and qualitative “carrying capacity,” including acre-feet of flood capacity lost. Implement a standard monitoring and reporting process to track beaver dam locations, population, and impacts. Gain regulatory approval for beaver management techniques such as biological control and habitat manipulation using the most benign options first.</b>				
Yes	Short Term	No	The Park Maintenance – Open Space Division continues to use a Geographical Information Systems (GIS) database for tracking beaver dam locations and coordinates beaver removal per the City’s Beaver Management Policy and Nuisance Abatement Ordinance.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #WF-2—Continue “Goat Grazing” program for removal of grassland in areas of Roseville potentially vulnerable to wildfire. Implement goat grazing in City open space and preserve areas for fire and invasive plant species management and native plant restoration.				
Yes	Short Term	No	The Fire Department and the Open Space Division continue working together to implement a goat grazing program. Approximately 400 goats have been utilized for the grazing of open space preserves. Goats provide an innovative, environmentally sensitive way to reduce fire fuel load by keeping open space vegetation under control. Projects completed in 2012-2013 include the open space area located east of Dry Creek near Lincoln Estates to Linda Creek. Grazing reduces fuel load by removing thatch and thinning woody plants and also removes non-native vegetation.	Ongoing
Initiative #MH-4—Implement an “Adopt an Open Space” program in coordination with the open space management program. Develop “adoption contracts” with neighborhoods, organizations, businesses, etc., describing the level of stewardship and the terms of the “adoption.” Publicize these activities through online resource directory and other media to encourage participation.				
Yes	Long Term	No	During the reporting period, the City has implemented an “Adopt a Creek” program. The Adopt a Creek program is administered by the City’s Park Maintenance – Open Space Division. The City publicizes the program at the following website: <a href="http://www.roseville.ca.us/eu/stormwater_management/public_involvement_opportunities.asp">http://www.roseville.ca.us/eu/stormwater_management/public_involvement_opportunities.asp</a>	Ongoing
Initiative #MH-5—Develop and disseminate best practices information to private property owners whose land is adjacent to open space areas describing stewardship opportunities and owners’ role in preserving beneficial uses of open space areas (including vernal pool grassland and creek or riparian uses). Offer classes to provide in-depth information, such as demonstration projects, techniques for ecologically friendly weed abatement and vegetation control, and creating a backyard habitat compatible with open space areas.				
No	Short Term	Yes	No actions towards the completion of this initiative were completed during the reporting period. This will continue to be a short-term initiative with a high priority pending funding.	No Progress
Initiative #MH-6—Work with the Roseville City School District, local high school districts, and non-profit organizations to promote ecology-oriented curricula and stewardship activities. Identify resource and administrative barriers that may be limiting schools’ abilities to more actively participate in stewardship, and work collaboratively to identify solutions.				
No	Short Term	No	No actions towards the completion of this initiative were completed during the reporting period. This will continue to be an ongoing initiative with a medium priority pending funding.	No Progress

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ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<b>Police and Fire Department Initiatives</b>				
Initiative #DF-1—Create a dam failure element for the City’s emergency response plan that includes a phased warning protocol in response to the findings of the Folsom Dam Containment Dike Risk Assessment.				
Yes	Short Term	Yes	The City of Roseville and the Placer County Office of Emergency Services has obtained a grant from the California Department of Water Resources to fund revisions to the City's and County's Dam Failure Emergency Response Plan under the DWR Flood Emergency Response Project grant program. The funding will assist in creating a dam failure element in the City's Emergency Response Plan during the next year.	Ongoing
Initiative #F-20—Implement recommendation of Downtown Roseville Specific Plan to relocate the Public safety Building				
Yes	Short Term	No	The City plans to grade the parking lot and building pad for the future relocation of Fire Station #1 in 2014. The fire station will be relocated from it's current location at the intersection of Oak Street and Grant Street to the intersection of Oak Street and Lincoln Street. Building construction is planned to begin in 2015.	Ongoing
Initiative #HC-1—Commit support to Sacramento Urban Area Security Initiative; continue to seek funding from other federal sources to fund its initiatives				
Yes	Short Term	No	Roseville hosts various training courses designed to support the regional UASI program. The City hosts a lot of classes for the UASI and they provide us with free seats in the classes in return. The Fire Chief continues to participate on the Joint Terrorism task Force Executive Committee (JTTF).	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #HC-2—Enhance emergency response capability of City by contingency planning for specific events based on identified vulnerabilities.				
Yes	Short Term	No	<p>The Fire Department's Hazmat Team has completed one Type I recertification since 2006 and is currently in the process of going through another one right now.</p> <p>The City's Training Division has determined that all new employees who are required to have the basic and intermediate level of ICS training (ICS 100, 200, 700, 800) obtain training and certification through FEMA's Online Emergency Management Institute's Independent Study program. Certificates are provided at the completion of the courses, and maintained in the form of individual transcripts by FEMA. Audits for compliance are completed by the training division annually.</p> <p>Those employees required to have advanced level ICS courses (ICS 300, 400) have been identified by the City's Training Division based on NIMS requirements. ICS 300-400 training is provided annually in multiple 16-hour blocks.</p> <p>The FEMA exercise mandates have been meet and exceeded. In October of 2009, the H1N1 virus EOC activation was completed and included the activation of a South Placer Point of Distribution (POD) for the H1N1 virus vaccination. In May of 2010, the EOC was activated for the "MCI 2010 Homeland Security Exercise" comprising of the cities of Roseville, Rocklin and surrounding jurisdictions. In 2011, the City participated in the "Golden Guardian" full scale exercise that was hosted by California Emergency Management Agency (CalEMA). This scenario centered on a catastrophic release of Folsom Lake due to a dam failure. In 2012 the EOC staff conducted an enhanced tabletop exercise that practiced Continuity of Operations Plans (COOP). The exercise scenario included a major explosion of a natural gas main in the Civic Center area. Again in 2012, the city participated and hosted the "MCI 2012 Homeland Security Exercise" that included a major chemical release with a fast moving vapor cloud into neighboring jurisdictions. This was a full scale exercise with a complete activation of the entire EOC staff.</p>	Ongoing
Initiative #HC-4—Prepare a site-specific vulnerability assessment of City- owned critical facilities that use the best available science and technology with regards to human-caused hazards.				
Yes	Short Term	No	<p>Through the California Emergency Management Agency, Critical Infrastructure Protection Section and the 2008 Buffer Zone Protection Program, an assessment of the Sutter Roseville Medical Center was conducted. While SRMC is not city-owned, it is designated the City's medical provider.</p>	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #HH-1—Continue to collaborate with the Placer County Health Department to ensure the health and welfare of the community				
Yes	Short Term	No	The City Manager’s Office, Fire Department, and Communications Division collaborate with the Placer County Health Department on issues that affect the health and welfare of Roseville residents and visitors.	Ongoing
Initiative #SW-4—Continue education/outreach programs to improve winter preparedness and minimize loss of life or injury.				
Yes	Short Term	No	Educational materials are included on the city’s web site on an ongoing basis, as well as a weekly tip sheet sent to all local media (print/broadcast). Web content is available to any viewer with a personal computer and Internet access. Typically there is also at least one city-authored column in the Roseville Press-Tribune on this topic per year – which reaches 40,000 readers.	Ongoing
Initiative #WF-3—Enhance existing City public outreach programs to include information on fire safety, defensible spaces, and areas of concern.				
Yes	Short Term	No	The Fire Department continually evaluates the efficiency and effectiveness of its public education programs. Comparison with other accredited fire agencies reveals that our performance standards meet those of other agencies. Outreach efforts include seasonal safety messages through the media and City website. Public education programs have been reduced, with the primary focus being assembly type presentations at several elementary schools.  The fire department has taken an active role in the Neighborhood Association Meetings by having the on-duty staff to attend when possible. This allows the department to update it’s citizens on various services and programs, as well as allows the citizens to voice any questions or concerns they have.	Ongoing
Initiative #MH-3—Establish/maintain a post-disaster action plan to be part of the City Emergency operations plan that will include following elements:				
<ul style="list-style-type: none"> <li>• Procedures for public information</li> <li>• Post-disaster damage assessment</li> <li>• Grant writing</li> <li>• Code enforcement</li> <li>• Redundant operations</li> </ul>				
No	Short Term	No	No action was taken on this initiative during the reporting period. The City is still committed to completing this action in the performance period of the plan. However, the City will pursue grants to complete this task.	No Progress

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<b>Public Works Department Initiatives</b>				
Initiative #F-3—Continue City participation in the National Flood Insurance Program and the Community Rating System (CRS). Seek CRS classification improvements within capabilities of City programs, including adoption and administration of FEMA-approved ordinances and flood insurance rate maps (FIRM).				
Yes	Short Term	No	The City of Roseville continued to participate in the CRS program, and re-certified its participation during the reporting period. The City's CRS Class I classification became effective on October 1, 2006. Flood Insurance policy holders within the City for property owners in flood areas will receive up to a 45% premium reduction based on the classification. Roseville is the first and only CRS Class 1 community in the nation. This initiative will continue to be implemented on an ongoing basis, with a high priority. The City has maintained its Class 1 rating through the reporting period.	Ongoing
Initiative #F-4—Maintain Roseville's compliance and good standing under the National Flood Insurance program.				
Yes	Short Term	No	A Community Assistance Visit (CAV) was last performed on the City of Roseville on November 1, 2011. The CAV is the principle means by which FEMA monitors a community's NFIP compliance. This CAV found that the City was in full compliance and in is in good standing under the NFIP.	Ongoing
Initiative #F-5—Continue the City's outreach program to flood-prone property owners and the citizens of Roseville, to help make them aware of the flood threat and how best to deal with them.				
Yes	Short Term	No	This is an on-going action that is a part of the City's CRS program.	Ongoing
Initiative #F-6—Continue to pursue a regional approach to flood issues by remaining actively involved in the Placer Co Flood Control District. This involvement includes cooperation in the development of a comprehensive regional database. Continue to participate in regional flooding studies, including the Auburn Creek/Coon Creek/Pleasant Grove Creek flood mitigation plan and the Dry Creek watershed flood control plan.				
Yes	Long Term	No	The City continued to be actively involved in the PCFCD and participate in regional flooding studies during this reporting period. Staff from the Floodplain Management Division attends the meetings on a monthly basis and a Councilmember services on the District Board. The PCFCD is developing the Antelope Creek Flood Control Project, which is a regional flood control project, located within the City of Roseville. City staff will be assisting the PCFCD with the development and construction of th regional flood control project, scheduled for construction in 2014. This initiative will continue to be implemented on an ongoing basis, with a high priority.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #F-7—Continue City coordination with other agencies on issues of flood control. Coordination between the City and adjacent jurisdictions occurs through several mechanisms, including distribution of development proposals for review and comment. Continue City cooperation with federal, state, and local agencies, including the U.S. Army Corps of Engineers, California Central Valley Flood Protection Board, FEMA, California Department of Fish and Game, Placer County Resource Conservation District, and the Placer County Flood Control District.				
Yes	Short Term	No	The City continued to coordinate with other outside agencies on issues of flood control during this reporting period. The coordination typically occurs on a project-by-project basis and agencies are included in the meetings based on their particular jurisdiction or expertise. This initiative will continue to be implemented on an on-going basis, with a high priority. The City is also actively involved with the State's new Flood-Safe program.	Ongoing
Initiative #F-8—Continue to develop, implement, and expand the Flood Alert and Early Warning Program systems and integrate the systems with other local jurisdictions to form a regional warning program.				
Yes	Long Term	No	The City continues to develop, implement, and expand the Flood Alert system. New "ALERT" software was installed and the Flood Warning web site was updated. During the reporting period, the City and the Placer County Flood Control District applied a State Department of Water Resources Flood Emergency Response Projects grant to upgrade the Flood Alert System data transmission system to the "ALERT-2" protocol. While the grant application was not successful during the current grant cycle, the City and PCFCD will apply for funding in future grant cycles. This initiative will continue to be implemented on an ongoing basis with a high priority.	Ongoing
Initiative #F-10—Monitor and regularly update City flood studies, modeling, and associated land use, zoning, and other development regulations at a minimum of every 5 years or whenever information becomes available that would significantly modify previous data. New information could include new studies, change in City policy, consideration of a major development project or specific plan, or implementation of a flood control project.				
Yes	Long Term	No	The City has updated the Pleasant Grove Creek flood studies. The City also participated with the 2011 update to PCFCD's Dry Creek flood study. The studies have also determined the 200-year WSE to comply with the implementation of the Urban Level of Flood Protection criteria. The priority and timeline for this initiative will remain as assigned.	Ongoing
Initiative #F-13—Continue annual inspection and maintenance program of City storm drain systems. Review after every major storm system function and performance. This program removes debris that could contribute to blockage of the storm drain system.				
Yes	Short Term	No	The City continued to implement its ongoing protocol of inspecting and maintaining its storm drain system during the reporting period. This initiative will continue to be implemented on an ongoing basis with a high priority.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #F-14—Complete the final two phases of the Cirby/Linda/Dry Creek flood control project (Phase 1 and 2). Five of the seven phases of this project have been completed at a cost of about \$18,000,000. The basis for determining viability of this project will be a benefit /cost analysis to determine if project meets federal grant eligibility requirements.				
No	Long Term	No	No actions towards the completion of this initiative were completed during the reporting period. This will continue to be a long-term initiative with a low priority pending funding.	No Progress
Initiative #F-15—Analyze alternative improvements to the Cirby/Linda/Dry Creek flood control project that may be cost effective in the flood-prone areas of Roseville:				
<ul style="list-style-type: none"> <li>• Dry Creek from Darling Way to Riverside Avenue</li> <li>• Area on Dry Creek upstream of Folsom Road in the Columbia Avenue/Marilyn Avenue/Bonita Street area</li> <li>• Linda Creek near Champion Oaks Drive/Samoa Way/Hurst Way area</li> <li>• Cirby Creek in the Trimble Way/Zien Court area</li> </ul>				
No	Long Term	No	No actions towards the completion of this initiative were completed during the reporting period. This will continue to be a long-term initiative with a low priority pending funding. The City continues to pursue opportunities to acquire flood prone properties and remove them from the floodplain as a viable alternative to structural flood control.	No Progress
Initiative #F-16—Replace the Huntington Drive/Cirby Creek culvert with a bridge to protect Queens Court/Huntington Drive area. The Public Works Department oversees this project.				
No	Long Term	Yes	The City is continuing to research grants that may be available for this project. The City has the 25% match for the project. The priority for this project has been changed to medium and the time line has been changed to long term pending the identification of funding for this project.	No Progress
Initiative #F-17—Divert the main drainage storm drain system down Crestmont Avenue to Cirby Way and then into Dry Creek so that the existing system will not exceed capacity. If system capacity is exceeded, the intersection on Cirby Way and Crestmont Avenue and nearby homes will flood during major flood events.				
Yes	Short Term	No	Funds were allocated for this initiative in the 07/08 capital improvements budget but were diverted to fix a culvert on Atlantic Street in downtown Roseville rather than replacing this culvert. A portion of the project, consisting of the 48-inch outfall into Linda Creek and the storm drain pipe crossing South Cirby Way at the intersection of Piedmont Way, was constructed in 2010. The priority and timeline for this initiative will remain as assigned. Funding was replaced with the approval of the FY 2011/12 budget.	Ongoing
Initiative #F-18—Continue to promote and sponsor programs to buy out, relocate, and flood-proof existing flood-prone structures within Roseville.				
Yes	Short Term	No	The City will continue to pursue the acquisition of additional target properties with a high priority. The City has targeted the property on Riverside Dr for grant funding under the FY-2013 HMA grant cycle. Completion of this project will be contingent upon grant award.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
<b>Initiative #LS-1—Once California Geological Survey completes soils mapping for the Roseville vicinity under the Seismic Hazards Mapping Act, reassess landslide hazard using best available data to gauge the true vulnerability to this hazard.</b>				
No	Long Term	No	There was no mapping performed by CAGS in the Roseville vicinity under the Seismic Hazards Mapping Act during the reporting period. Time line and priority for this project will remain unchanged, pending action by CAGS.	No Progress
<b>Roseville Electric Initiatives</b>				
<b>Initiative #HC-6—Maintain compliance with California Energy Commission (“CEC”) license conditions for the operations of the Roseville Energy Park (“REP”) with respect to Hazardous Material Management</b>				
Yes	Short Term	No	The operation of the REP is in compliance with the CEC license conditions including the preparation of a Business Plan and a Risk Management Plan (RMP) submitted to the City’s Fire Department and the CEC. In addition, a Vulnerability Assessment has been prepared and Site Security measures have been implemented to ensure that neither the REP site nor a shipment of hazardous material is the target of unauthorized access.	Ongoing
<b>Initiative #HC-7—Establish and maintain compliance with state and local laws and regulations for the operation of the Roseville Combustion Turbines upon transfer of ownership from Northern CA Power Agency to City.</b>				
Yes	Short Term	No	All operating and compliance permits have been transferred over to Roseville Electric and are being maintained by the power generation staff. Compliance with state and local laws is an ongoing practice.	Ongoing
<b>Initiative #HC-8—Maintain compliance with North American Electric Reliability Corporation mandatory reliability standards related to plant operation, sabotage reporting and critical infrastructure protection (cyber security).</b>				
Yes	Short Term	No	Establishing compliance through development, implementation and adherence to policies and procedures	Ongoing
<b>Initiative #SW-1—Continue ongoing program of conversion of overhead utilities to underground service.</b>				
Yes	Short Term	No	Roseville Electric is working jointly with Comcast and Sure-West to strategically underground utilities. Work has been completed in the Riverside Gateway Corridor, This will improve reliability in the area and improve aesthetics.	Ongoing
<b>Initiative #SW-2—Continue the Shade Tree Program, an energy conservation rebate program provided by Roseville Electric</b>				
Yes	Short Term	No	This ongoing program continues to offer Roseville residents a rebate for trees that they select, purchase and plant at their own convenience. Rebates are limited to 6 trees per household and available to Roseville Electric customers only.	Ongoing

**TABLE 2.  
ACTION PLAN MATRIX**

Action Taken?	Timeline	Priority Changed?	Comment (Describe progress or changed priority)	Status
Initiative #SW-3—Continue ongoing line clearing and weed abatement of electrical utilities to reduce exposure to severe weather hazards.				
Yes	Short Term	No	This is an ongoing program of Roseville Electric to both protect the public from hazards and to maintain the reliability of electricity service to Roseville Electric's more than 50,000 customers.	Ongoing
Initiative #SW-6—Continue to operate the Roseville Energy Park to support the City's electrical requirements and maintain service continuity during severe weather events.				
Yes	Short Term	No	The Roseville Energy Park (REP) which opened in October 2007 is producing power and provides additional electric support to meet the City's electrical needs. In the event of a transmission line outage the REP will help maintain electric service continuity. The Operations Department's Emergency Action Plans (EAP) specifically addresses severe weather operations in Section 5.9. The severe weather EAP will ensure continuity of operations while securing the safety of personnel and equipment	Ongoing
Initiative #SW-7—Take over ownership and operation of the Roseville Combustion Turbines from Northern CA Power Agency to support the City's electrical requirements and maintain service continuity during severe weather events.				
Yes	Short Term	No	Roseville Electric took ownership and operational control of the NCPA Roseville CTs now identified as Roseville Power Plant #2, on 9/1/2010. The facility is operated from the Roseville Energy Park Control Room. The Operations Department's Emergency Action Plans (EAP) specifically address severe weather operations in Section 5.9. The severe weather EAP will ensure continuity of operations while securing the safety of personnel and equipment.	Ongoing
Initiative #WF-1—Continue ongoing line clearing and weed abatement of electrical utilities to reduce exposure to fire and severe weather hazards.				
Yes	Short Term	No	This is an ongoing program of Roseville Electric to both protect the public from hazards and to maintain the reliability of electricity service to Roseville Electric's more than 50,000 customers.	Ongoing

## Planning Area Changes That May Impact Plan Implementation

There were no significant changes to the planning area that would impact the scope or implementation of this plan.

## Recommendations for Changes or Enhancements

Based on the review of this report by the RMHMP Steering Committee, the following recommendations will be noted for future updates or revisions to the plan.

- The Information Technology Department has recommended that Initiatives MH-3 and MH-7 be combined into a single initiative
- Include information on the potential impacts of Biggerts/Waters Flood Insurance Reform Act in annual mailings to floodplain residents.
- Continue to hold a pre rainy season meetings with all the key departments and stake holders.
- Access to the EOC was delayed – need better access for all personnel.
- Continue to train with WebEOC – this made a difference in communication with the county.
- Try to better forecast the impacts to the city storm drains bases on leave removal processes.
- Possible training in street closure in a flood scenario for Street workers.
- WARN system was cumbersome to use, recommend a new system.
- Data from stream gauges was not a representation of actual emergencies in the field. Recommend field observers to known street flooding locations.

**Public review notice:** *The contents of this report are considered to be public knowledge and have been prepared for total public disclosure. Copies of the report have been provided to the Roseville City Council and local media outlets. The report is also posted on the City of Roseville Multi-Hazard Mitigation Plan website. Any questions or comments regarding the contents of this report should be directed to:*

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