



The City of Roseville Multi-Hazard Mitigation Plan Progress Report

Reporting Period:

March 2011 through July 2012

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 (44CFR) 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. Copies of the plan are available to the public through the City of Roseville Public Library and the Plan is available online at:

http://www.roseville.ca.us/fire/emergency_preparedness/multi_hazard_mitigation_plan.asp

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 will be 5 years, with an anticipated update to the plan to occur before March, 2016. As of this reporting period, the performance period for this plan is considered to be 81% complete. The Hazard Mitigation Plan has targeted 63 hazard mitigation initiatives to be pursued during the 5-year performance period. As of the reporting period, the following overall progress can be reported:

51 out of 63 initiatives (81%) reported ongoing action toward completion.

12 out of 63 initiatives (19%) 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 August 23, 2012. The objective of this annual evaluation is to ensure that there is a continuous planning process that will keep the RMHMP dynamic and responsive to the needs and capabilities of the stakeholders. This report will discuss 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(s)
- Changes in capability within 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 comprised of planning partners and 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, and is dynamic in its membership. There will be turnover in this membership annually that will be monitored via the progress reporting mechanism. It is also anticipated the Steering Committees role in overall plan implementation will evolve, based on the hazard mitigation needs of the city. At a minimum, the Steering Committee will provide 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 PR-1.

TABLE PR-1 2012 STEERING COMMITTEE MEMBERS		
Name	Title	Jurisdiction or Agency
Grace Keller, Chair	Member	Community Emergency Response Team (CERT)
Mike Isom	Senior Planner	City of Roseville – City Manager’s Office
Pete Hnat	Battalion Chief	Roseville Fire Department
Jason Rizzi	Fire Division Chief	Roseville Fire Department
Clair Alway	Citizen	Floodplain Resident
George Booth	Citizen	Sacramento Department of Water Resources and Roseville Resident
Jim Williams	Citizen	Meadow Oaks Neighborhood
Troy Bergstrom	Police Lieutenant	Roseville Police Department
Dick Simmons	Emergency Services Program Manager	County of Placer Office of Emergency Services
Erik Angle	Office of Emergency Preparedness	Sutter Roseville Medical Center
Jennifer Johnson	Manager, Hazardous Materials	Union Pacific Railroad
Carl Walker	Senior Civil Engineer	City of Roseville – Public Works Floodplain Management

Natural Hazard Events within the Planning Area

During the reporting period, there were no notable natural hazard events that had a measurable impact on people or property within Roseville.

Changes in Risk exposure within 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 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.

Dry Creek Wastewater Treatment Plant Levee Relocation Project

The goal of this project was to reduce the risk of Dry Creek overtopping the Dry Creek Wastewater Treatment Plant's emergency storage ponds by providing a 100-year level of flood protection, thereby reducing the chance of an uncontrolled release of wastewater stored in the ponds into Dry Creek.

The City Council awarded a contract to Teichert Construction on March 3, 2010 to construct these improvements. The notice to proceed was issued on March 10, 2010 and work was completed in November 2011 when staff completed the final inspection of the project work and found that it was completed in accordance with the contract plans and specifications. The final project cost was \$6,162,015.67

Mutual Response Emergency Drills

Over the course of the past year, the Roseville Police Department has conducted several 'active shooter' scenario drills that focused on mutual response from the Police Department, Fire Department, surrounding law enforcement agencies, and community stake holders. These drill scenarios covered the response to an active shooter at a large business including Sutter Roseville Medical Center, Surewest Communications, and Heald College. The drills focused on a coordinated response of police and fire personnel including combined agency law enforcement response (Roseville Police Department, Rocklin Police Department, and Placer County Sheriff's Office) as well as emergency medical services including the Roseville Fire Department, Rocklin Fire Department, and AMR. These drills were coordinated through the Roseville-Rocklin Regional SWAT Team in cooperation with our partner Departments and local businesses.

Tactical Medical Program

The Roseville Police Department and Roseville Fire Department began a tactical medical program in 2012 which is part of the Roseville-Rocklin Regional SWAT Team. The tactical medics include one SWAT team member who is a paramedic and three Roseville Fire Department paramedics. The goal of the program is to provide immediate medical aid in a rapidly evolving tactical situation to ensure that victims are evacuated to medical care as fast as possible. The Fire Department paramedics train with the SWAT team in tactics and teamwork that has helped to integrate police and fire responses in emergency situations. The program is one of only two in the Sierra Sacramento Valley EMS Authority which covers ten counties between our area and Oregon that has met the SSV-EMS standards and Peace Officer's Standards and Training (POST) standards for a tactical medical program.

Commission on Fire Accreditation International (CFAI) 2012 Evaluation Report

The Roseville Fire Department completed the 2012 CFAI accreditation report which provides assurance to peers and the public that the organization has defined a mission and related objectives that will result in improving organizational performance. The department received a detailed evaluation of the services it provides to the community and was awarded accreditation in 2010. By providing a detailed annual assessment report the Roseville Fire Department continuously identifies strengths and areas of needed improvement assuring departmental effectiveness and efficiency. By completing the 2012 assessment report the Roseville Fire Department maintains its accreditation through CFAI.

Review of the Action Plan

This section will review the action plan of each planning partner and determine the status of each initiative. The following action plan matrix will provide the following information:

- Brief summary of the initiative
- Time Line
- Priority
- Status

Reviewers of this report should refer to Part 4 of the plan for more detailed descriptions of each initiative and the prioritization process. Under the "status" section of the following section the following comments with regards to each initiative:

- 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?

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
DAM FAILURE				
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	On-going	High	In January 2011, the City Council adopted the Emergency Operations Plan, (EOP) containing Chapter 6.2.2, “Dam Failures”, in response to this action item. While the Folsom Dam Containment Dike Risk Assessment has been completed, no action has been taken on the “phased warning protocol” during this reporting period.	O
DROUGHT				
Initiative #D-1— Perform a groundwater recharge feasibility study to determine the most cost-effective way to replenish groundwater resources within Roseville.				
Yes	On-going	Medium	The City completed a program-wide Environmental Impact Report (EIR) review under California Environmental Quality Act (CEQA) requirement. The EIR 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.	O
Initiative #D-2— Implement aquifer storage and recovery program that uses direct injection technique in areas identified as appropriate.				
Yes	On-going	Medium	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.	O
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	On-going	High	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.	O

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
EARTHQUAKE				
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.				
No	Short-Term/ Ongoing	High	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...	X
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.				
No	Short-term, Ongoing	High	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.	X
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.				
Yes	Short- term	Medium	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.	O
FLOOD				
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.				
Yes	Ongoing	High	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 upcoming implementation of the new state standard for flood control, the City has contracted with a qualified engineering firm to determine the 200-year water surface elevation for the City’s streams.	O

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
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 (PCFCD). Consider the comments of the agencies during the development review process.				
Yes	Ongoing	High	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.	O
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	Ongoing	High	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 1 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 applied for the re-verification of its Class 1 in October of 2011.	O
Initiative #F-4— Maintain Roseville's compliance and good standing under the National Flood Insurance program (NFIP)				
Yes	On-going	High	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.	O
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	Ongoing	High	The City continued implementation of this outreach effort during the reporting period, as confirmed during the CRS verification of activity 330. This project will continue on an ongoing basis, with a high priority.	O

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
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	Ongoing	High	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. This initiative will continue to be implemented on an ongoing basis, with a high priority.	O
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 PCFCD.				
Yes	Ongoing	High	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.	O
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	Short-Term/On-going	High	The City continues to develop, implement, and expand the Flood Alert system. New “ALERT” software was installed. The Flood Warning web site was updated. These enhancements to the system were completed during the reporting period. No action was taken on an Early Warning System beyond the Roseville city limits. This initiative will continue to be implemented on an ongoing basis with a high priority.	O

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
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).				
Yes	Short-Term/On-going	High	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 Specific Plan is 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.	O
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	Short-Term	High	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 upcoming implementation of the new state standard for flood control. The priority and timeline for this initiative will remain as assigned.	O
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	Short-term, Ongoing	High	The City is working with developers to prepare a master drainage and flood study for the Sierra Vista and Creekview Specific Plans. The priority and timeline for this initiative will remain as assigned.	O

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Initiative #F12— 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.				
Yes	Ongoing	High	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 Game executed a five-year Routine Maintenance Agreement with the City in April 2010 for work that is ongoing this summer. 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.	O
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	Ongoing	High	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.	O
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	Low	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.	X
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"> • Dry Creek from Darling Way to Riverside Avenue • Area on Dry Creek upstream of Folsom Road in the Columbia Avenue/Marilyn Avenue/Bonita Street area • Linda Creek near Champion Oaks Drive/Samoa Way/Hurst Way area • Cirby Creek in the Trimble Way/Zien Court area 				
No	Long -term	Low	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.	X
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	Short- term	High	The City is continuing to research grants that may be available for this project. The City has the 25% match for the project.	X

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
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	High	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.	O
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	High	The City will continue to pursue the acquisition of additional target properties with a high priority. The City of Roseville purchased 1211 Champion Oaks Drive and removed all structures on the property with funding from an FMA grant.	O
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, ongoing	High	The Environmental Utilities budget includes funding for the project. Plans, specifications, and environmental permits are complete and Construction of the Dry Creek Wastewater Treatment Plan Levee Relocation Project began in March 2010 and was completed in November 2011.	O
Initiative #F-20— Implement recommendation of Downtown Roseville Specific Plan to relocate the Public safety Building				
No	Long-Term	Medium	No action taken on this initiative during the reporting period. Time line and priority remain as assigned.	X
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 overflow the existing floodwall.				
No	Short-Term On-going	High	No action was completed on this initiative during the reporting period. Priority and time line remain as assigned.	X
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.				
Yes	Ongoing	High	The Tree Mitigation program for native oak woodland restoration uses oak mitigation funds for projects in the open spaces. 7000 trees have been planted to date.	O
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.				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	On-going	High	The Park Maintenance – Open Space Division has implemented the use of 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.	O
HUMAN CAUSED				
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	High	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).	O
Initiative #HC-2— Enhance emergency response capability of City by contingency planning for specific events based on identified vulnerabilities.				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	Short-term, ongoing	High	<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 met 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>	O
Initiative #HC-3— Seek to establish appropriate staffing levels of public safety personnel to address vulnerabilities identified.				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	Short Term	High	<p>The Police Chief meets quarterly with the City Manager to discuss staffing levels and needs based on current trends, population growth, and calls for service.</p> <p>Due to budget decreases from 2007 to 2009, the Police Department currently has 122 sworn positions (with 5 current vacancies), a decrease from 1.13 officers to 1.0 officers per thousand city residents. There are currently 62.5 professional staff positions, including permanent and temporary staff positions, down from 88 positions in 2010.</p> <p>The Roseville Fire Department opened Fire Station #7, including the staffing of the city’s second truck company, on July 21, 2007. Additional administrative staff (three additional Battalion Chiefs – one for each of three 24 hour shifts was added in FY 2007-08. Even with these important operational staffing increases, Fire Department staffing has been reduced from 128 to 120 in the past three years. The Department has defunded the positions of Assistant Fire Chief, Emergency Preparedness Manager, Assistant Fire Marshal and Public Education Specialist.</p> <p>The decline in the city budget has resulted in the fire department reducing it’s on-duty staffing by 5 positions. This reduction in personnel resulted in the “browning out” of a Battalion Chief on two of the three shifts, and reduced the number of in-service companies from 10 to 9.</p> <p>The department has applied for grant relief from FEMA to re-fill those positions, but has yet to hear the results of the grant.</p> <p>In 2010, the department did reorganize and filled the Operations Chief position by de-funding the Support Services Chief position after that employee retired. The department added a half-time public education specialist during that same time.</p>	O
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	Long-term	Medium	<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>	O
Initiative #HC-5— Address vulnerabilities identified in vulnerability assessment of water facilities performed by EUD in response to EPA initiative.				
Yes	Ongoing	Medium	<p>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. Time line for this initiative has been changed from long-term to on-going.</p>	O

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ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
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				
Yes	Ongoing	High	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.	O
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.				
Yes	On-going	High	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.	O
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).				
Yes	Ongoing	High	Establishing compliance through development, implementation and adherence to policies and procedures	O
Initiative #HC 9—Protect the city’s data, technology infrastructure and staff against Cyber terrorism such as but not limited to: <ul style="list-style-type: none"> • Identity Theft • Virus/Malware/Spyware/Spam • Network and system attacks • Web site hacking 				
Yes	Short-term	High	The Information Technology Department uses several technologies to combat Cyber terrorism including: <ul style="list-style-type: none"> • Anti-phishing capability • Internet content filtering • PCI-DSS compliance • Virus, malware, spyware and spam scanning • Perimeter firewalls report and prevent intrusions • Secure authentication 	O
HUMAN HEALTH				
Initiative #HH-1— Continue to collaborate with the Placer County Health Department to ensure the health and welfare of the community				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	Ongoing	High	<p>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. In particular, West Nile virus communications are distributed through all media possible at the City. Staff is also participating on the Pandemic Flu Task Force. Most recently, the Fire Department has developed a severe weather protocol in conjunction with educational materials to educate the public in times of severe heat”. The Roseville Fire Department created a database of all emergency responders for early warning of disease outbreaks at care facilities. This has allowed real-time surveillance data collection through a system that reports two or more calls in any one day for the same symptoms to Placer County epidemiologists. Placer County can then work with the hospitals for care and quarantines at the care facilities.</p> <p>In FY 2009/2010 the City worked cooperatively with Placer County Public Health to host a number of dispensing site events to administer seasonal flu and H1N1 injections to first responders and the public. These events tested our ability to successfully administer other medications (prophylaxis) should it be required.</p> <p>The Roseville Fire Department hosts a bi-annual multi-casualty incident (MCI) training exercise for all county agencies. This year the exercise also involved Placer County Public Health, exercising their role in the evacuation and decontamination processes.</p>	O
Initiative #HH-2— Support the public education efforts of the Placer County Health Department and the Placer Mosquito Abatement District				
Yes	Ongoing	High	<p>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.</p> <p>The Placer Mosquito Abatement District is purchasing a building in Roseville at 2021 Opportunity Drive and will move 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.</p>	O
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				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	Short-term	High	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. The City worked diligently with the technicians from the abatement district during the height of the West Nile virus in Roseville in summer 2005 making exceptions to policies regarding beaver dams and clearance of habitat in creeks to make sure all mosquito breeding areas identified by the district were eliminated.	O
LANDSLIDE				
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.				
No	Long-term	Medium	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.	X
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. When individual projects are submitted,				
Yes	Ongoing	High	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.	O
SEVERE WEATHER				
Initiative # SW-1—Continue ongoing program of conversion of overhead utilities to underground service.				
Yes	Ongoing	High	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.	O
Initiative #SW-2—Continue the Shade Tree Program, an energy conservation rebate program provided by Roseville Electric				
Yes	On-going	High	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.	O

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Initiative # SW-3—Continue ongoing line clearing and weed abatement of electrical utilities to reduce exposure to severe weather hazards.				
Yes	On-going	High	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.	O
Initiative # SW-4—Continue education/outreach programs to improve winter preparedness and minimize loss of life or injury.				
Yes	Short-term, ongoing	High	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.	O
Initiative # SW-5—Enhance and implement strategies for debris management and removal during severe weather events.				
Yes	Ongoing	High	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.	O
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	Ongoing	High	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.	O
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	On-going	High	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.	O
WILDFIRE				
Initiative # WF-1—Continue ongoing line clearing and weed abatement of electrical utilities to reduce exposure to fire and severe weather hazards.				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	Ongoing	High	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.	O
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	Ongoing	High	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 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.	O
Initiative # WF-3—Enhance existing City public outreach programs to include information on fire safety, defensible spaces, and areas of concern.				
Yes	Short- term Ongoing	High	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.	O
MULTI-HAZARD				
Initiative # MH-1—Continue to maintain OES certification of all City inspectors for post-disaster damage assessment.				
Yes	Ongoing	High	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.	O
Initiative # MH-2—Continue to maintain the hazard mitigation page on City website that provides following types of information:				
<ul style="list-style-type: none"> • The Hazard Management Plan and its progress reports • Hazard-specific information • Mitigation information by hazard, with specific emphasis on private property • Emergency response and warning information • Links to county, state, and federal related agencies 				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	Short-term	High	This is an on-going action. The City continues to maintain its website as specified in the plan maintenance section of the plan.	O
<p>Initiative # MH-3—Establish/maintain a post-disaster action plan to be part of the City Emergency operations plan that will include following elements:</p> <ul style="list-style-type: none"> • Procedures for public information • Post-disaster damage assessment • Grant writing • Code enforcement • Redundant operations 				
No	On-going	High	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. Therefore, the time line should be changed from on-going to short term, with the priority remaining as high.	X
<p>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.</p>				
Yes	Long Term	Medium	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: http://www.roseville.ca.us/eu/stormwater_management/public_involvement_opportunities.asp	O
<p>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.</p>				
No	Short Term	High	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.	X
<p>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.</p>				
No	On going	Medium	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.	X
<p>Initiative # MH 7—Strive to maintain high availability of essential communication services</p>				

**TABLE 2.
ACTION PLAN MATRIX**

Action Taken? (Yes or No)	Time Line	Priority	Status	Status (X, O,✓)
Yes	On-going	High	<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"> • City phone system • Electronic Mail • Essential Network Services • Servers <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>	O
Initiative # MH 8-Secure the city's physical locations that contain technology infrastructure				
Yes	On-going	High	<p>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.</p>	O

Completion status legend:
 ✓ = Project Completed
 O = Action ongoing toward completion
 X = No progress at this time

Changes within the Planning area that may impact implementation of the plan

The city did annex the Sierra Vista Specific Plan and the Reason Farms areas into the City limits during the reporting period. This will alter the dimension of the planning area addressed by the plan. This adjustment to the planning area will be address during the next plan update process. All technical, regulatory and financial capabilities identified by the City during the plan's development remain consistently in place throughout the planning area.

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.

Common Operating Procedure for EOC

The EOC is handicapped by physical layout restrictions (some teams, such as planning and damage assessment, are physically isolated from the command center). In addition, a common "view" of information is not available – information and status updates must be compiled using multiple applications (e.g., WebEOC), tools, and data sources. The purpose of the Common Operating Procedure for EOC project is to implement a web-based GIS application to provide a single common display of relevant EOC information and the status of important City infrastructure. This Common Operating Picture will facilitate collaboration when the EOC is activated and will assist all functions of the EOC to achieve situational awareness. The City's GIS team intends to engage the City's GIS software vendor (ESRI, Inc.) to provide assistance in standing up a template-based application that uses existing infrastructure and development platforms.

Integration of Multi-Hazard Mitigation and Emergency Operation Plans

At the national level, Presidential Policy Directive 8 to FEMA requires emergency response planners to seek a collaborative, whole community approach to national preparedness that engages individuals, families, communities, private and nonprofit sectors, faith-based organizations, and all levels of government. Through the public participation process already set in-place for updating the Multi-Hazard Mitigation Plan, City emergency response planners intend to merge the City's efforts for disaster planning with our emergency response plan, thereby developing the collaborative approach to national preparedness described within the latest Presidential Policy Directive to FEMA.

Real-Time Flood Inundation Mapping of Dry Creek

With the recent development of the Central Valley Floodplain Evaluation and Delineation Program, the State has produced accurate topographical mapping data that can be merged with the City's hydrologic and hydraulic modeling of Dry Creek to produce real-time flood inundation mapping of the City's most flood prone areas. The inundation maps will serve two purposes: The first is to provide residents located within or near the flood hazard areas along Dry Creek with an internet-based tool to determine the limits of flood inundation, relative to the creek depth, as measured by one of the City's Flood Alert System stream gauges. The second is to provide emergency response staff with a tool that will assist in the decision making process for the amount of effort and resources required to respond to a potential flood event within a specific area.

Union Pacific Rail Yard Evacuation Route Planning

In the event of a disaster at the Union Pacific Rail yard that cannot be contained on the UP site and could potentially affect residents adjacent to the rail yard, the City would need to implement an evacuation plan as quickly, efficiently, and safely as possible. The development of evacuation routes for the areas adjacent to the rail yard will identify the required roadway improvements and infrastructure necessary to evacuate residents from any potential disaster at the rail yard.

CRS-Compliant Community Outreach

The National Flood Insurance Program – Community Rating System is undergoing significant changes in regards to the development and implementation of community outreach projects to residents within the flood hazard area. The 2013 CRS Coordinator’s Manual provides guidance to communities to develop a Program for Public Information (PPI) to meet these new requirements. The Program for Public Information requires the establishment of a committee to assess public information needs, formulate messages, identify public information projects, implement, monitor and evaluate the effectiveness of the outreach components. The PPI committee will consist of members of the Multi-Hazard Steering Committee and City staff.

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 governing bodies of all planning partners, the local media outlets, and 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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