



July 25, 2006

Roseville City Council
311 Vernon Street
Roseville, CA 95678

Dear City Council,

On behalf of the Multi-Hazard Mitigation Plan Steering Committee (MHMPSC), I am pleased to present the Annual Progress Report. Each year for the next four years, the committee reconvenes and suggests changes to the final recommendations of the 2005 Multi-Hazard Mitigation Plan. At the end of five years, the changes may then be incorporated as the plan continues to be implemented. The committee members are listed in the Progress Report in table PR-1.

This report includes the following sections:

- I.) Natural Hazard Events that have occurred within the last year
- II.) Changes in risk exposure within the planning area
- III.) Mitigation Success Stories
- IV.) Review of the action plan(s)
- V.) Changes in capability within the planning Area that could impact plan implementation
- VI.) Recommendations for changes/enhancement

We are very proud of the accomplishments of the City of Roseville during this year. The details of those accomplishments appear in section III, Mitigation Success Stories. Some highlights include:

- 1) FEMA award of the highest flood insurance rating, Community Rating Standard (CRS) 1.
- 2) National recognition at the Association of State Flood Planning Management (ASFPM) conference
- 3) FEMA approval of grant funding to remove two homes in Roseville with high flood risk
- 4) Participation in the County Pandemic Task Force and Regional CERT Exercises
- 5) Qualification for grant funding as a result of the plan.

Having agreed upon the contents within the committee, we request that this Progress Report be accepted by the City Council on August 16, 2006.

Thank you,

A handwritten signature in black ink, appearing to read "Grace Keller", is written over a light-colored rectangular background.

Grace Keller
Chair



**The City of Roseville
Multi-Hazard Mitigation Plan
Progress Report**

Reporting Period:

July 2005 through July 2006

Background: Following a tradition of progressive and innovative planning, the City of Roseville has developed the Multi-Hazard Mitigation Plan (RMHMP) to provide its vision for reducing its 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 12 month planning process 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 clearing the way for the city to achieve the nation's very first class 1 rating under FEMA's Community Rating System (CRS). The plan was adopted by Roseville City Council on July 20, 2005, and was approved by FEMA Region IX for compliance with section 201.6, Chapter 44 of the Code of Federal regulations (44CFR) on August 9, 2005. By completing this process, the City has achieved compliance with the parameters of the Disaster Mitigation act, and thus leveraged hazard mitigation grant funding opportunities afforded under the Robert T. Stafford Act. Copies of the plan are available to the public throughout the City of Roseville Public Library system and it can be viewed on-line at:

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

Purpose: The purpose of this report is to provide the Roseville City Council, Stakeholders and the citizens of Roseville 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 July 20, 2006. The objective of this annual evaluation is to ensure that there is a continuing and responsive planning process that will keep the SCNHMP dynamic and responsive to the needs and capabilities of the coalition partnership. This report will discuss the following:

- I.) **Natural Hazard Events that have occurred within the last year**
- II.) **Changes in risk exposure within the planning area**
- III.) **Mitigation Success Stories**
- IV.) **Review of the action plan(s)**
- V.) **Changes in capability within the planning Area that could impact plan implementation**
- VI.) **Recommendations for changes/enhancement**

The RMHMP Steering Committee: The development of the plan was overseen by a 13-member steering committee that was made up 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. The Roseville City Council at the beginning of the planning process officially recognized this committee. It was determined through the plan's development process that a Steering committee will remain as a viable body to oversee the maintenance aspects of the plan as established in Chapter 19. This body will remain as organized in the established

ground rules, but will be dynamic in its membership. It is anticipated that there will be turn-over 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 be dynamic, 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
2006 STEERING COMMITTEE MEMBERS

Name	Title	Jurisdiction or Agency	Representing
Grace Keller, Chair	Member	Community Emergency Response Team (CERT)	Stakeholder
Clair Alway	Homeowner	Floodplain resident	Citizen
David Benedetti	Staff Safety Engineer	NEC Electronics America Inc.	Stakeholder
Steve Pease	Member	Roseville Chamber of Commerce	Stakeholder
Dan Dimick	Western Region Environmental Health and Safety Manager	Hewlett-Packard	Stakeholder
Joe Burdenski	Environmental Health and Safety Manager	Kaiser Permanente	Stakeholder
Alan Colombo	Director of Facilities	Dry Creek School District	Stakeholder
Jerry Erickson	Member	Roseville Coalition of Neighborhood Associations (RCONA)	Citizen
Don Snow	Manager, Chemical Transportation Safety	Union Pacific Railroad	Stakeholder
Mary Lou Pierce	Emergency Response Manager	City of Roseville Fire Department	City
Mike Isom	Planner	City of Roseville Planning Department	City
Susan Webb	Emergency Management Coordinator	Sutter-Roseville Medical Center	Stakeholder
George Booth	Assoc. Civil Engineer	Sacramento Department of Water Resources and Roseville city resident	Citizen/Stakeholder
Jim Williams	Member	RCONA	Citizen

I.) Natural Hazard Events within the Planning Area

During the reporting period, one natural hazard event that had a measurable impact on people or property occurred within the planning area. A summary of this event is as follows:

December 31, 2005- Flood Event: This storm event is considered to be part of the severe storms and flooding events that impacted Northern California and that received a Presidential Declaration on February 3, 2006 (FEMA-1628-DR). This event was estimated to be 10 to 25-year flood event with over-bank flood occurring along Cirby, Linda and Dry Creeks. The City received no formal reports of property damage, however it was observed that water did enter to the garages of five homes and a vacant building along Riverside Drive. The total dollar losses associated with this event are estimated

to be \$150,000 in public infrastructure and \$50,000 in emergency operations and cleanup. There was no loss of life associated with this event. The flood warning system functioned properly during the course of the event, and the flood control project in the region functioned as specified by its design, thus significantly reducing the potential impact of the event.

II.) Changes in Risk exposure within the Planning Area

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

- 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.

III.) Mitigation Success Stories

- **Community Rating System (CRS) Class 1 rating** – On May 3, 2006, City officials were notified that the Roseville has initially qualified for FEMA’s Community Rating System “Class 1” rating. The City of Roseville’s aggressive flood mitigation efforts have earned the first-ever Class 1 designation in the country among the 1,028 cities that participate in the program.

The City earned 5,368 credit points in an official evaluation for CRS classification, 19 percent higher than the 4,500 points needed for the top rating. The Class 1 rating recognizes over a decade of flood-control improvements intended to protect Roseville residents. Flood insurance holders will receive a forty-five percent (45%) discount on flood insurance



premiums beginning with the fall 2006 premium payments. Three Roseville Councilmembers met with FEMA Director R. David Paulison in May at FEMA Headquarters in Washington, D.C. to be personally congratulated at the preliminary Class 1 rating. City officials have invited Director Paulison to visit Roseville in fall 2006 to present the Class 1 plaque, visit a flood control project area, and meet those involved in flood mitigation efforts for the past decade.

- **City Amends Building Code**– In preparation for the CRS Class 1 verification process, the City amended its building code to include the seismic provisions of the International Building Code (IBC) to enhance its Building Code Effectiveness Grading Schedule (BCEGS) classification, and aid the city in its efforts of meeting CRS classification prerequisites. The State of California has not yet adopted the IBC as the State building code which prohibits California Cities from adopting the IBC outright. This issue could lead to significant retrogressions in the classifications assigned under the BCEGS program. Working with FEMA, the state and the Insurance Services Office (purveyors of the BCEGS program), the City adopted specified amendments to its building code as a temporary solution to the issue. Once the State adopts the IBC as its state building code (anticipated occurring in 2007), the city will have a head start on meeting the programmatic requirements associated with IBC implementation.
- **City Council Authorization to Purchase 1212 and 1214 Champion Oaks Drive** – 1212 and 1214 Champion Oaks Drive are two residential properties that are prone to flooding during heavy rainfall. These two properties are located immediately north of Linda Creek on the west side of Champion Oaks Drive. The homeowners did not participate in the FEMA-funded elevation program available through 2001.

In response to flooding of that neighborhood on December 31, 2005, the City has submitted to the State Office of Emergency Services (OES) a "Flood Mitigation Assistance" (FMA) program grant application on behalf of the two property owners. This grant is designed to provide mitigation for repetitive loss structures meaning those that have filed two or more flood insurance claims. The owners of 1212 and 1214 Champion Oaks Drive have indicated that they are willing to participate in this voluntary grant program, which involves acquisition of their properties.

The FMA grant would pay 75% of the cost of purchase, closing costs, and demolition of the houses located on those parcels. On February 15, 2006, the City Council authorized the City to cover the remaining 25% of the cost, and approved a mid-year budget adjustment setting aside \$800,000 for the purchase of these two properties, with the understanding that about \$600,000 of that would be reimbursed by the FMA grant.

OES has reviewed and approved the City's grant application. OES has forwarded it to FEMA for final approval. As of this progress report, indications are very positive that the City's application will be approved by FEMA. Staff anticipates the properties will be acquired and the homes razed by the beginning of wet weather in late 2006. Plans for a culvert-widening project and a passive neighborhood park at the site of the two homes are being discussed by the City's Public Works Department.

- **Roseville Participation in Sacramento UASI** – The City of Roseville Police and Fire Departments participate in the Urban Area Security Initiative funded through Department of Homeland Security grants made to the City of Sacramento. The Sacramento area is one of five California areas designated by the Department of Homeland Security as grant eligible for funding to enhance readiness and response in the event of a Weapons of Mass Destruction (WMD) event in or around Sacramento. The City of Roseville participates with the City and County of Sacramento and the cities of West Sacramento and Folsom in preparedness assessments and training. One full-time Police Sergeant, one full-time Fire Department Operations Chief and a half-time Battalion Chief are representing Roseville at the UASI offices in Sacramento. Costs are funded by the UASI grant received by the City of Sacramento as project manager. The City's participation is seen as a mitigation measure for the human-caused hazards identified in the Multi-Hazard Mitigation Plan.

- **City Resident Participation in Citizens Emergency Response Team (CERT) Training through Sacramento readiness programs** – The City of Sacramento receives substantial (\$700,000 per year) funding for the Citizens Emergency Response Team or CERT training. Roseville now sends interested citizens to the Sacramento training classes which are typically evening or Saturday classes that include light search and rescue techniques, CPR, First Aid and some terrorism training. The Sacramento UASI provides funding and a regional facility for the training.
- **Participation in Regional Training Exercises** – City staff as well as area medical personnel participated in two exercises to determine the area’s readiness to respond to terrorism events. The Golden Guardian was a terrorism exercise that began at the Roseville rail yard and escalated to become a regional and even Northern California event. CERT members participated as volunteers who called various EOC’s with questions that tested the expertise of the staff members assigned various responsibilities. The Delta Breeze exercise included participation by five Roseville residents and was the first all volunteer coordinated exercise to test readiness among the region’s emergency responders and health care providers.

IV.) 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 changes or removed from the action plan?

**TABLE PR-2.
ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
Drought					
D-1	Yes	Perform a groundwater recharge feasibility study to determine the most cost-effective way to replenish groundwater resources within Roseville.	Long-Term <i>(Change to Short term)</i>	Medium	Roseville continues to work with the California Regional Water Quality Control Board (RWQCB) on development of an Aquifer Storage and Recovery (ASR) program. Water was injected at Diamond Creek well from December 2005 to May 2006 and data collected to confirm project feasibility. Extraction is planned for 6-8 months beginning in September 2006 which is anticipated to result in an approved ASR program. Priority remains the same. Time line should be changed to short term due to progress achieved during the reporting period.
D-2	Yes	Implement aquifer storage and recovery program that uses direct injection technique in areas identified as appropriate.	Short term, ongoing	Medium	Results of the ASR demonstration project in D-1 will provide data needed to develop a long term program and operational plan. Priority and time line for this initiative remain unchanged.
D-3	Yes	Continue to implement EUD's recycled water program and seek all opportunities to expand its coverage, focusing first on the Sunset Industrial area. 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 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.	Ongoing	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. Priority and time line for this initiative remain unchanged.
D-4	Yes	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.	Short-term, ongoing	High	Roseville has completed planning efforts for conservation program expansion through development of the Urban Water Management Plan (UWMP) and USBR Water use Plan required as part of our long term water supply contract. Implementation continues to be expanded. Priority and time line for this initiative remain unchanged.

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Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
Earthquake					
EQ-1	No	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.	Long-term <i>(Change to short term/on-going)</i>	Medium <i>(Change priority to High)</i>	The Roseville Building Division anticipates making these assessments as permits are applied for on pre-1980 structures. A formal inspection process and program for retrofitting the city facilities will be completed within two fiscal years. The time line and priority for this project should be changed due to change in implementation policy.
EQ-2	No	Incorporate earthquake mitigation measures for private property into existing City-sponsored outreach programs such as printed media and the City's website.	Short-term, ongoing	High	The City Building Division is working with the California Building officials on this program and staff anticipates the first materials (print and electronic) will be available in various forms by July 2007.
EQ-3	No	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.	Short-term	Medium	The International Code 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 late 2007.
EQ-4	Yes	Implement seismic construction standards under the International Building Code (IBC) as an "alternative means" code until the IBC is formally adopted as the California State Building Code.	Short-term, ongoing	High	The City of Roseville amended its current building code by adopting The seismic and wind provisions of 2000 / 2003 IBC & IRC standards for structural stability. This was done in lieu of the option cited in the initiative. This action is considered to be a short-term alternative until the State of California officially amends the state Building Code. This initiative will still continue to be monitored pending further action by the state, and will still viewed as a high priority project. . The State is scheduled to adopt the Building Code amendments in 2007.
Flood					
F-1	Yes	The City shall designate all areas identified as the 100-year floodplain. The boundaries of the 100-year floodplain shall	Ongoing	High	The city continued to implement its on-going protocols and standard for identifying, mapping, and preserving the 100 yr floodplain during this reporting period. This

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Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		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.			initiative will continue to be implemented on an on-going basis, with a high priority
F-2	Yes	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 Reclamation 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.	Ongoing	High	The city continued to implement its on-going 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 on-going basis, with a high priority
F-3	Yes	Continue City participation in the NFIP and the CRS. Seek CRS classification improvements within capabilities of City programs, including adoption and administration of FEMA-approved ordinances and flood insurance rate maps (FIRM).	Ongoing	High	The City of Roseville continued to participate in the CRS program, and was cycle re-verified during the reporting period. The City achieved the nation's first CRS class 1 rating, to become effective 10-1-06.
F-4	Yes	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.	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 on-going basis, with a high priority.
F-5	Yes	Continue to pursue a regional approach to flood issues by remaining actively involved in the PCFCD. 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	Ongoing	High	The city continued to be actively involved in the PCFCD and participate in regional flooding studies during this reporting period. This initiative will continue to be implemented on an on-going basis, with a high priority

**TABLE PR-2.
ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		Dry Creek watershed flood control plan.			
F-6	Yes	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 Reclamation Board, FEMA, California Department of Fish and Game, Placer County Resource Conservation District, and PCFCD.	Ongoing	High	The city continued to coordinate with other outside agencies on issues of flood control during this reporting period. This initiative will continue to be implemented on an on-going basis, with a high priority
F-7	Yes	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.	Short-Term	High	The city continued to develop, implement, and expand the Flood Alert system. We by revision the emergency operations plan and work with PCFCD to install 7 new gauges during this reporting period. This initiative will continue to be implemented on an on-going basis, with a high priority
F-8	Yes	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).	Short - term	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 on-going basis, with a high priority
F-9	Yes	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	Short-Term	Medium	The City's flood studies were not updated during this reporting period. The City has agreed to be a Cooperative Technical partner (CTP) with FEMA to update the North Pleasant Grove Creek and Linda Creek flood studies

**TABLE PR-2.
ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		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.			
F-10	Yes	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.	Short-term	High	Working with developers to prepare a master drainage and flood study for the new Creekview Plan area.
F-11	Yes	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.	Ongoing	High	The city continued to implement its on-going protocol of inspecting and maintaining its creeks and streams during the reporting period. This initiative will continue to be implemented on an on-going basis, with a high priority.
F-12	Yes	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.	Ongoing	High	The city continued to implement its on-going protocol of inspecting and maintaining its storm drain system during the reporting period. This initiative will continue to be implemented on an on-going basis, with a high priority.
F-13	No	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.	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.

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Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
F-14	No	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 	Long - term	Low	Updated and more detailed flood modeling we prepared for the Darling/ Riverside area to help in analyzing alternatives. No other 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.
F-15	No	Replace the Huntington Drive/Cirby Creek culvert with a bridge to protect Queens Court/Huntington Drive area. Public Works Department oversees this project.	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.
F-16	No	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.	Short-term	High	Plans have been prepared for the improvements. NOI for a 2005 PDM grant was sent to the State. This project will be included in the City's Capital Improvement Program within the next five years meaning funding will be allocated to complete the storm drain system improvements. Priority and time line for this project remain unchanged.
F-17	Yes	Continue to promote and sponsor programs to buy out, relocate, and flood-proof existing flood-prone structures within Roseville.	Short-term	High	During the reporting period, the City has initiated a proposed acquisition of 2 repetitive loss properties on Champion Oaks Dr. The City has applied for grant funding under the Flood Mitigation Assistance Grant program, and completion of this project is pending award of the grant. The City will continue to pursue the acquisition of target properties with a high priority.
F-18	Yes	Set back and raise the sewer ponds levees at the Dry Creek Sewer Plant so raw sewage will not enter Dry Creek.	Short-term, ongoing	High	Plans, specifications., and environmental permits are being prepared.
F-19	No	Replace existing wood flood wall along Dry Creek that protects the City's Main Library and Public Safety Building because wood wall allows flood water to leak through, and	Long-term	High <i>(Change to</i>	No actions towards the completion of this initiative were completed during the reporting period. This will continue to be a long-term initiative. Priority should be changed to

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		constant pumping is required.		<i>medium, pending funding)</i>	medium, pending funding.
F-20	No	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.	Short-term	Medium	Freeboard standards for building in areas where beaver dam could affect flood levels have been increased. No other actions were taken on this during this reporting period. <i>This action provides mitigation for multiple hazards, primarily mitigating possible impacts of human health hazards associated with West Nile Virus. This initiative should be moved to the “Multiple Hazards” matrix as initiative # MH-11.</i>
F-21	No	Perform a scenario-based dam failure analysis to determine the probable impact of flooding within Roseville if western levees on Folsom Reservoir fail. These levees are considered a part of the entire dam system that creates Folsom Reservoir and are an integral part of a dam failure analysis. This study would generate an inundation area map.	Long-term	Low	The City did apply for a PDM grant for this initiative during the reporting period. The grant application was denied by OES, and deferred to future grant opportunities that will fund a complete planning effort, such as an update to the RMHMP. The time line and priority for this project will remain unchanged.
F-22	Yes	Once dam failure analysis is complete, create a dam failure element for the City’s emergency response plan.	Long-term	Low	No Dam failure analysis was completed during the reporting period; therefore this task was not completed. However, the City did amend its emergency operations plan to include a dam failure component to meet CRS classification prerequisites. This component would be updated once initiative #F-22 is completed. Priority and timeline for this project will remain unchanged.
F-23	No	Develop a comprehensive interpretive sign program, including trail and open space preserve signage, at road crossings. Create creek corridor trail maps and coordinate with local schools and public stewardship events to increase public awareness of the need to preserve, restore, and proactively manage open space corridors and provide a	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.

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		sense of civic identity and pride. Interpretive signs are particularly important along the many trails adjacent to or that provide access to the City's open space resources, which are habitat for endangered species.			
Landslide					
LS-1	No	Once California Geological Survey (CAGS) 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.	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.
LS-2	Yes	Implement soil testing standards under IBC as an "alternative means" code until the IBC is formally adopted as California State Building Code.	Short-term, ongoing	High	The City of Roseville amended its current building code by adopting The seismic and wind provisions of 2000 / 2003 IBC & IRC standards for structural stability. This was done in lieu of the option cited in the initiative. This action is considered to be a short-term alternative until the State of California officially amends the state Building Code. This initiative will still continue to be monitored pending further action by the state, and will still viewed as a high priority project. The State is scheduled to adopt the Building Code amendments in 2007.
LS-3	Yes	Continue to implement policies adopted by the general plan that promote open space land uses within identified steep slope areas of Roseville.	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.
Human Caused Hazards					
HC-1	Yes	Incorporate Crime Prevention Through Environmental Design strategies into future enhancements and revisions to	Short-term	High	The City Council appointed a Corporate Center Committee to review all areas in the City that might develop as mid-

**TABLE PR-2.
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Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		community design guidelines.			rise or high rise office developments. One of the Committee recommendations is to adopt a Building Security Ordinance that formalizes the Crime Prevention through Environmental Design strategies for non-residential development. The Building Security Ordinance will be adopted during fiscal year 2006-07 by the City Council.
HC-2	Yes	Commit support to Sacramento Urban Area Security Initiative in the form of staff support from City of Roseville public safety departments. Continue to seek funding from other federal sources to fund the UASI initiatives.	Short-term	High	The City of Roseville currently has 2.5 full-time equivalent staff members committed to the Sacramento Urban Area Security Initiative. One member of the Roseville Police Department (Sgt. Eric Ahrens) and 1.5 members of the Roseville Fire Department (Division Chief Dean Grundy and Battalion Chief Jeff Carman) report to the Sacramento UASI office to support regional readiness initiatives.
HC-3	Yes	Enhance emergency response capability of City by contingency planning for specific events based on identified vulnerabilities.	Short-term, ongoing	High	The Roseville Fire Department received International Accreditation during the Multi-Hazard Mitigation Planning process. The Fire Department is working on a number of initiatives to maintain the accreditation and serve all customers within the City. The Fire Department's Hazmat Team will receive their final inspection to maintain their status as an OES Type I Hazmat team by the end of calendar year 2006.
HC-4	Yes	Seek to establish appropriate staffing levels of public safety personnel to address vulnerabilities identified.	Short Term	High	With the addition of four more sworn officers on July 19, 2006, the number of sworn police officers in the City will be 129. Additional officers are budgeted in the 2006-07 budget. In fact, 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. The number of non-sworn personnel has also increased in the Police Department providing appropriate levels of records and dispatch staff for example. The Roseville Fire Department just celebrated the graduation of nine new firefighter/paramedics to allow

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					staffing of the 8 th City fire station. Recruitments for the ninth station are underway as of July 2006. Additional administrative staff (three additional Battalion Chiefs – one for each of three 24 hour shifts will be added this fiscal year along with a second ladder truck). City resources will fund a significant investment in public safety during the 2006-07 fiscal year to ensure that Roseville can address the vulnerabilities identified and meet the organizational goal of a Safe and Healthy Community.
HC-5	No	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.	Long-term	Medium	This task was not completed since adoption of the 2005 Multi-Hazard Mitigation Plan. Staff from the Fire Department, Police Department, and Central Services Department will work together during the upcoming year to make progress on this long-term project.
HC-6	No	Develop and enhance a COOP specific to human-caused hazards.	Short-term, ongoing	Medium	The City's Fire Department will lead the effort to continue development a program to enhance preparedness in the future. The City has formed a Committee that will specifically address avian pandemic flu. The work of the Committee will be scalable and used to develop plans specific to human-caused hazards.
HC-7	Yes	Enhance camera surveillance program to improve security at electrical substations, receiving stations, and energy park.	Short-term	High	The City's Electric Utility went to bid during the past year for approximately \$20,000 in surveillance equipment for the first phase of this project. Cameras will be installed at the Roseville Electric building, storage yard and Roseville Corporation Yard to prevent entry. The next phase will be the installation of surveillance equipment at the substations and receiving stations. Surveillance cameras will be installed at the Roseville Energy Park during construction that is currently ongoing.
HC-8	Yes	Address vulnerabilities identified in vulnerability assessment of water facilities performed by EUD in response to EPA initiative.	Long-term	Medium	Vulnerabilities in the City's water infrastructure were identified in a report currently kept on file in the City Attorney's Office. The Water Utility is budgeting for security measures each year as new projects and

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					rehabilitation projects. Several projects were completed this past year, but will not be detailed in this report due to the confidential nature of the work.
Human Health Hazards					
HH-1	Yes	Continue to collaborate with the Placer County Health Department to ensure the health and welfare of the community	Ongoing	High	The City Manager's Office, Fire Department, and Public Information Office 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 with appointed staff, alternate and the PIO on the Communications Task Force.
HH-2	Yes	Support the public education efforts of the Placer County Health Department and the Placer Mosquito Abatement District	Ongoing	High	The City supports the public education efforts of the Health Department and Mosquito Abatement District through print, government access television, and web materials.
HH-3	Yes	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	Short-term	High	The Placer Mosquito Abatement District and Roseville Environmental Coordinator are 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.
Severe Weather					
SW-1	Yes	Continue ongoing program of conversion of overhead SW-utilities to underground service.	Ongoing	High	Roseville Electric is working jointly with Comcast and SureWest to underground utilities on an approved schedule. Work has already begun in the Historic District, Roseville's oldest area with electric crews working overtime and weekends to underground what is truly an antique infrastructure. This will improve reliability in the area and of course improve aesthetics. Another older

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Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
					commercial area will be improved in 2007 – the Riverside corridor and investments will be made every year through the City’s capital improvement plan to underground utilities. By jointly undergrounding the telecommunications utilities as well, reliability in the communications area will also be improved in the event of an emergency.
SW-2	Yes	Purchase mobile generators to provide redundancy for electrical utilities.	Short-term	Low	Roseville Electric purchased a large mobile generator and enough smaller generators to loan to other departments or even critical facilities that are private in the event of an emergency. These are stored at Roseville Electric and are available by request.
SW-3	Yes	Continue “Right Tree, Right Place” program, a community service sponsored by Roseville Electric and Roseville Urban Forest Foundation.	Ongoing	High	The Shade Tree Program had another successful year with residential tree plantings and community service projects in the open space areas. There is significant interest in the community to greatly expand this program in the 2006-07 fiscal year, by involving every elementary school in Roseville to continue planting trees in the open space and developed parks throughout the City.
SW-4	Yes	Continue ongoing line clearing and weed abatement of electrical utilities to reduce exposure to severe weather hazards.	Ongoing	High	Roseville Electric has a very aggressive line clearing and weed abatement program. The Department contracts for the service and is continually evaluating the cost effectiveness for the program. Electric senior staff are evaluating this year whether the trimming program should be a division within Roseville Electric and will make that determination this next fiscal year.
SW-5	Yes	Continue education/outreach programs to improve winter preparedness and minimize loss of life or injury.	Short-term, ongoing	High	Roseville Electric, Roseville Fire, the Public Works Department and the Public Information Office include preparedness information year-round for emergencies, especially severe weather emergencies.
SW-6	Yes	Enhance and implement strategies for debris management and removal during severe weather events.	Ongoing	Medium	No change in the debris management and removal strategy was adopted this past year. Parks Maintenance and Streets staff will evaluate this ongoing program during the upcoming year.

**TABLE PR-2.
ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
Wildfire					
WF-1	Yes	Continue ongoing line clearing and weed abatement of electrical utilities to reduce exposure to fire and severe weather hazards.	Ongoing	High	Roseville Electric has a very aggressive line clearing and weed abatement program. The Department contracts for the service and is continually evaluating the cost effectiveness for the program. Electric senior staff are evaluating this year whether the trimming program should be a division within Roseville Electric and will make that determination this next fiscal year.
WF-2	Yes	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.	Ongoing	High	The Roseville Fire Marshal is considering the goat grazing program not just for steep spaces, but an infill park area that has been troublesome to manage and a source of small fires. The area is very close to residences and goat grazing is an option for maintaining the vegetation in hard to reach areas. A decision had not been made as of the date of this progress report but is expected shortly.
WF-3	Yes	Enhance existing City public outreach programs to include information on fire safety, defensible spaces, and areas of concern.	Short-term Ongoing	High	As part of the Fire Accreditation process the Fire Department will be reviewing its entire public education program. The Department’s Public Education Specialist is monitoring the department’s call records to identify areas of additional need for public education.
WF-4	No	Purchase a minimum 4,000-gallon water tender with wildfire fighting capability.	Long-term	Medium <i>(change to low)</i>	No Action Taken. This is not in the Fire Department’s current goals but does remain an option if large amounts of open space are annexed into the City. <i>Priority for this initiative should be changed to low due to the lack of immediate need. This initiative should be reconsidered at plan update.</i>
WF-5	No	Consider adopting building code regulations that would allow only class “A” roofing on new or substantially improved structures.	Short-term	Medium	The Fire Marshal and Building Division are studying the need for a citywide Class A roofing ordinance in conjunction with Placer County and surrounding Placer County fire agencies. Currently, a Class A roofing requirement would be evaluated at the Specific Plan level, i.e., Stoneridge, and would be applied through a development agreement as appropriate.
WF-6	Yes	Enhance wildfire-fighting capabilities of the Fire	Short-	High	All Fire Department wildland apparatus use Class A foam

**TABLE PR-2.
ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		Department through approaches that include <ul style="list-style-type: none"> • Use of gel for fire protection of threatened structures, • Equipment with adequate supplies of class A foam, • Expanded vegetation management areas, • Enhanced wildfire training for response personnel, and • Establishment of a reserve supply of wildfire-fighting land equipment. 	term		with additional supplies available for large incidents.
Multiple Hazards					
MH-1	Yes	Adopt IBC as amended once approved as the California State Building Code.	Short-term	High	The City of Roseville amended its current building code by adopting The seismic and wind provisions of 2000 / 2003 IBC & IRC standards for structural stability. This was done in lieu of the option cited in the initiative. This action is considered to be a short-term alternative until the State of California officially amends the state Building Code. This initiative will still continue to be monitored pending further action by the state, and will still viewed as a high priority project.
MH-2	Yes	Continue to seek OES certification of all City inspectors for post-disaster damage assessment.	Ongoing	High	The City is seeking certification of all inspectors. This past year, two inspectors traveled to New Orleans to assist the local building inspectors in assessing the status of hundreds of residences. The inspectors were recognized by the CA team leader from Davis, CA as the most productive team sent from CA. The City's Mayor interviewed the inspectors for a FOCUS show which was broadcast via the government access channel and was very well received. The Building Division will continue to seek OES certification not just to assist Roseville in the event of a disaster, but also to provide help in the event of emergencies elsewhere.
MH-3	Yes	Establish hazard mitigation page on City website that provides following types of information: <ul style="list-style-type: none"> • RHMP and its progress report(s) • Hazard-specific information 	Short-term	High	This action was completed by the City during the reporting period. The maintenance and update of this page will be become an on-going action by the City, with a high priority. The Department's Public Education Specialist is

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ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		<ul style="list-style-type: none"> • Mitigation information by hazard, with specific emphasis on private property • Emergency response and warning information • Links to county, state, and federal related agencies 			monitoring the department's call records to identify areas of additional need for public education
MH-4	Yes	Review existing automatic/mutual aid agreements with outside public safety agencies to identify opportunities for enhancement.	Short-term	High	A automatic aid agreement with all western Placer County Fire Departments was entered into in early 2006. This clearly enhances the level of support from other fire agencies into the City of Roseville in large-scale emergencies.
MH-5	Yes	Establish post-disaster action plan to be part of the City Emergency Operations Plan that will include following elements: <ul style="list-style-type: none"> • Procedures for public information • Post-disaster damage assessment • Grant writing • Code enforcement • Redundant operations 	Short-term	High	A post-disaster action plan is included in the City Emergency Operations Plan. The Plan is updated periodically included the protocol for public information, damage assessment and redundant operations. City grant writing and code enforcement is also ongoing and continually updated to remain current.
MH-6	Yes	Relocate City Emergency Operations Center out of the floodplain, and construct new facility to current seismic standards; this project would mitigate impacts of flood, earthquake, and human-caused hazards.	Short-term	High	The City of Roseville redundant EOC will be located within the library/community center/public access center at Mahany Park. The facility is under construction and will open in late summer 2007.
MH-7	No	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.	Short-term	Medium	The City did not implement an Adopt an Open Space program, but is currently recruiting for a full-time Open Space Manager and Urban Forester. These positions will be asked to coordinate the stewardship and community involvement in maintaining the open space. They will also prepare the online resource directory and other media to promote Roseville's open space resources.
MH-8	No	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	Short-term	High	The Open Space Manager, once hired, will be tasked with educating private property owners adjacent to the open space areas.

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ACTION PLAN MATRIX**

Action Identifier	Action taken Yes/No	Initiative Description	Time Line	Priority	Status
		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.			
MH-9	Yes	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.	Short-term	Medium	The City of Roseville, the Dry Creek Conservancy, and the Roseville Urban Forest Foundation had a very successful pilot program in November 2006 with three area schools. Approximately 6 pounds of poppy seeds and 125 oak trees were planted along Miner's Ravine where a road construction project had disturbed a 2-acre hillside. Community support is behind the ecology activities and with both the Open Space Manager, Urban Forester positions and funding from various programs, the stewardship activities will be greatly expanded in 2006-07.
MH-10	No	Institute a city program requiring a "Resale Property Report" for all sale of developed real property for a fee. The report would disclose information on hazards to be provided to a prospective buyer. This disclosure would be consistent with the requirements of California Civil Code #1102. Revenue generated would fund services provided and could be used to fund minor mitigation projects within the City identified in this plan.	Short-term <i>(Change to Long-term)</i>	High <i>(Change to Low)</i>	No action was taken with regards to this initiative during the reporting period. <i>The feasibility of implementing this type of initiative is suspect at this time. Timeline and priority should be changed accordingly. The City should reconsider the inclusion of this initiative during the plan update process.</i>

V.) Changes within the Planning area that may impact implementation of the plan

During the reporting period, there were no significant changes within the planning area that would have a profound impact on the implementation of the plan. All technical, regulatory and financial capabilities identified by the City during the plan's development remain consistently in place throughout the planning area.

VI.) 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.

- In response to other Federal and State mandates such as the National Incident Management System (NIMS) and the National Emergency Management Information System (NEMIS) that are associated with the national response plan, the City may consider adding response and preparedness components to the Hazard Mitigation Plan.
- Consider linking the update of the Hazard Mitigation plan to a proposed update to the safety element of the General Plan if feasible.
- Consider adding an initiative to the Human Caused Hazards matrix that promotes incentives for privately owned "critical facilities" to prepare a site specific vulnerability assessment of their facility and confidentially sharing that information with City Emergency Managers and First responders.
- Create a process that develops a dynamic public information strategy that will meet the constantly changing needs of the City and its stakeholders in all phases of emergency management.
- Enhance the City's ability to receive and respond to citizen inquiries related to drainage issues within the City.

***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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