



8.0 MITIGATION STRATEGY

This section describes the City’s strategy to utilize our resources to achieve our goals of reducing losses from future hazard events. This strategy identifies who is responsible for which actions, what funding mechanisms (e.g., grant funds, capital budget, or in-kind donations) and resources that are available or will be pursued, and when the actions are to be completed.

8.1 DMA 2000 Requirements

The DMA 2000 requirement for planning a hazard mitigation strategy is shown in Table 8-1.

**TABLE 8-1
DMA 2000 REQUIREMENTS - MITIGATION STRATEGY**

REQUIREMENT §201.6(c)(3)	The plan shall include a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.
EXPLANATION	<p>The community’s hazard reduction goals, as reflected in the plan, along with their corresponding objectives, guide the development and implementation of mitigation measures. This section should describe what these goals are and how they were developed. The goals could be developed early in the planning process and refined based on the risk assessment findings, or developed entirely after the risk assessment is completed. They should also be compatible with the goals of the community as expressed in other community plan documents (such as the General Plan).</p> <p>Although the Interim Federal Regulations language does not require a description of objectives, communities are highly encouraged to include a description of the objectives developed to achieve the goals so that reviewers understand the connection between goals, objectives, and activities.</p> <p>The goals and objectives should:</p> <ul style="list-style-type: none"> • Be based on the findings of the local and State risk assessments; and • Represent a long-term vision for hazard reduction or enhancement of mitigation capabilities.

8.2 Capability Assessment

Although not required by DMA 2000, a highly recommended component of the Mitigation Strategy is a local capability assessment. A capability assessment has two components: an inventory of an agency’s mission, programs, and policies; and an analysis of its capacity to carry them out. The capability assessment is a review of the City’s resources in order to identify, review, and analyze what the City is currently doing to reduce losses and identify the framework that is in place or should be in place for the implementation of new mitigation actions. The assessment involves four parts: (1) A review of the City’s legal and regulatory capability, including ordinances, codes, and plans to address hazard mitigation activities; (2) A review of the administrative and technical ability of Redding’s staff and personnel resources; (3) A review of the fiscal capability of Redding to provide the financial resources to implement the mitigation strategy; and (4) A summary review of the activities



of each administrative division within the City that supports hazard mitigation activities, and details any previous mitigation activities undertaken by these entities. The legal and regulatory hazard mitigation capability of the City of Redding is shown in Table 8-2. The table includes a review of existing ordinances, codes and plans that affect the built environment in Redding.

**TABLE 8-2
LEGAL AND REGULATORY CAPABILITY**

Regulatory Tools (ordinances, codes, plans)	Local Authority (Y/N)	Does State Prohibit? (Y/N)	Higher Level Jurisdiction Authority (Y/N)	Comments
Building code	Y	N	N	
Fire code	Y	N	N	
Zoning ordinance	Y	N	N	
Subdivision ordinance	Y	N	N	
Special purpose ordinances (floodplain management, stormwater management, hillside or steep slope ordinances, wildland fire ordinances, hazard setback requirements)	Y	N	Y	Floodplain regulations (Zoning Code Section 18.51); Open space district regulations (Zoning Code Section 18.35); Airport environs overlay district (Zoning Code Section 18.50); Wildland Fire Regulations (Municipal Code Sections 9.20.160 through 180)
Growth management ordinances	N	N	N	
Site plan review requirements	Y	N	N	
General Plan	Y	N	N	
Capital improvement plan	Y	N	N	
Economic development plan	Y	N	N	General Plan: Economic Development Element
Emergency response plan	Y	N	N	
Post-disaster recovery plan	Y	N	N	
Real Estate disclosure requirements	Y	N	N	On case by case basis, the City requires notices to be recorded on tentative maps.



**TABLE 8-3
ADMINISTRATIVE AND TECHNICAL CAPACITY**

Staff/Personnel Resources	Y/N	Department/Agency and Position
Planner(s) or engineer(s) with knowledge of land development and land management practices	Y	Planners: Development Services Department: Director, Planning Manager, Senior Planners; Engineers: Development Services Department: City Engineer, Assistant City Engineer.
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Engineers: Development Services Department: - Building Division: Building Official, plan check engineers, 3 plan checkers, and 4 building inspectors. - Engineering Division: City Engineer, Land Development Manager, Associate Civil Engineers, and 4 Public Works Inspectors
Planners or Engineer(s) with an understanding of natural and/or human-caused hazards	Y	(See responses above)
Floodplain manager	Y	Development Services Department: Planner
Surveyors	Y	Engineering Division: City Surveyor
Staff with education or expertise to assess the community's vulnerability to hazards	Y	Police Chief, Fire Chief, and Emergency Services Coordinator.
Personnel skilled in GIS and/or HAZUS	Y	Development Services Department: GIS Division
Scientists familiar with the hazards of the community	N	N/A
Emergency Manager	Y	City Manager, Fire Department, and Department Heads
Grant writers	Y	Housing Division: Housing Program Supervisor; Redevelopment Agency: Senior Redevelopment Project Coordinators; City Manager's Office: Staff



**TABLE 8-4
FISCAL CAPABILITY**

Financial Resources	Accessible or Eligible to Uses (Yes/No/Don't Know)
General Fund	Yes
Enterprise Fund	Yes
Development Fees	Yes
Community Development Block Grants (CDBG)	Yes
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	No
Fees for water, sewer, gas, or electric service	Yes - water, sewer, & electric
Impact fees for homebuyers or developers for new developments/homes	Yes
HOME Grant Fund	Yes
Federal Hazard Mitigation Grant Program (HMGP)	Yes

**TABLE 8-5
CURRENT AND COMPLETED HAZARD MITIGATION PROGRAMS AND PROJECTS**

Current and Completed Hazard Mitigation Programs and Projects		
Program or Project	Description	Agency
Annual County-Wide Disaster Drills	Members of the Redding Police Department participate in annual Shasta County Sheriff's Department tabletop and/or field exercises designed to train, access capabilities, and promote cooperation amongst allied agencies in the event of large-scale disasters or terrorist incidents.	Redding Police Department
Mutual Aid Region Advisory Committee	Representatives of the Redding Police Department's Emergency Services Unit attend quarterly Mutual Aid Region Advisory Committee meetings for the purpose of training, sharing information, and promoting cooperation between allied emergency services agencies.	Redding Police Department
ICS / SEMS Training	Supervisory level personnel of the Redding Police Department have been trained by the Shasta County Sheriff's Department Emergency Services personnel in basic ICS/SEM (Incident Command System/ Standardized Emergency Management System) concepts for the purpose of managing large-scale natural and/or manmade disasters.	Redding Police Department
Shasta County Public Health Joint Advisory Council	Representatives of the Redding Police Department's Emergency Services Unit participate in quarterly meetings and/or drills conducted by the Shasta County Public Health Joint Advisory Council for the purpose of mitigating the effects of disease outbreaks and/or possible bio-terrorist incidents.	Redding Police Department



Current and Completed Hazard Mitigation Programs and Projects		
Program or Project	Description	Agency
Mobile Data Computers/Site Survey Information	Patrol vehicles have been equipped with MDCs (mobile data computers) that contain software specific to our local schools designed to mitigate the effects of an active school shooting terrorist incident.	Redding Police Department
City of Redding Mobile Communications Center (C-P 1)	The City of Redding Mobile Communications Center is a motor home vehicle that is designed for incidents that require a multitude of different forms of communication. It is often time used as a mobile command post for special events and for emergency drills. It has also been used as a command post during actual disaster incidents such as wildfires.	Redding Police Department
Enhanced Weaponry	Officers of the Redding Police Department have been issued Glock brand high-capacity magazine handguns and semi-automatic rifles to enhance the Department's effectiveness in protecting the public. This undertaking also helps to mitigate the threat or effectiveness of a potential terrorist attack. They have also been trained for rapid deployment to mitigate the effects of an active school shooting terrorist incident.	Redding Police Department
Police Special Weapons and Tactics Team (SWAT)	The Redding Police Department has a 19-member SWAT Team that trains on the average of every other week and is equipped with weaponry to include fully automatic firearms.	Redding Police Department
Redding Police Department Community Cleanup Program	Since 1998, the Redding Police Department, in cooperation with the Shasta County Sheriff's Department, has utilized persons assigned to a work release program to clean up areas of blight throughout the city. This also includes weed trimming and brush removal in green belt areas which, in turn, eliminates or mitigates the effects of wildfires.	Redding Police Department
Crowd Control/ Management	The Redding Police Department has a ten member Crowd Control Team that may be called upon in the event of riots or unlawful assemblies or perimeter containment. In addition, most other officers of the department have received training in crowd management for the purpose of assisting the Crowd Control Team in matters previously indicated or for evacuation purposes during disasters.	Redding Police Department
Emergency Generator	The Redding Police Department maintains a diesel powered generator that is tested weekly and is used for the purpose of supplying emergency power in the event of electrical failure/power outages.	Redding Police Department
Armored Rescue Vehicle	Through a Department of Homeland Security Grant administered through the Shasta County Sheriff's Department, the Redding Police Department is to receive an armored rescue vehicle that may be used during disaster incidents.	Redding Police Department
Gas Masks	Through a Department of Homeland Security Grant, the Redding Police Department has issued all of its officers with gas masks that may be used during disaster incidents.	Redding Police Department
Developed an Emergency Services Plan	The Building Division has developed Standard Operating Procedures (SOP) for post disaster mitigation and response.	Development Services – Building Division



Current and Completed Hazard Mitigation Programs and Projects		
Program or Project	Description	Agency
Wildland Fuel Mitigation Work.	Executed contracts to conduct fuel mitigation work. Worked with California Department of Forestry and Fire Protection (CDF) in providing fire mitigation work; worked with developers in efficiently reducing fuel loads surrounding new subdivisions; worked with homeowners in educating and enforcing fire hazard mitigation rules and regulations.	Fire Dept.
Adopt and Maintain Current Construction Codes.	Adopted most recent Fire and Building construction codes with local amendments to enhance public safety regarding wildland fires.	Fire Dept. and Building Dept.
Develop an Emergency Operations Center (EOC) and Emergency Operation Plan.	The City has developed and maintained an Emergency Operations Center, along with an Emergency Operations Plan with yearly drills and Plan updates. In 2004, the Plan was revised to address terrorism. The latest EOC drill was May 2005.	Fire Dept.
Annual Emergency Operation Center's Training	Each year the EOC team is challenged with training and an exercise. All members are SEMS trained and updated.	Fire Dept.
Modify the City's Zoning Ordinance.	As of May 2005, the City's Zoning Ordinance has been updated to reflect changes in the General Plan.	Development Services
Update the Geographic Information System (GIS).	In 2005, the Geographic Information System was enhanced by aerial photography of the City of Redding.	Development Services
Continue the Community Rating System Program.	As of July 1996, the City has been a part of the FEMA's Community Rating System. This program has been beneficial in preventing and reducing deaths, damages, injuries, and losses from flood events. Additionally, residents within the floodplain have benefitted from reduced flood insurance rates.	Development Services
Update information and online guide for the Emergency Operations Plan.	In Fall 2004, the City updated its online guide to the Emergency Operations Plan for all City employees who participate in the Emergency Operations Center to have easy access to the Plan and associated responsibilities.	Fire Dept.
Educated the public on hazards and mitigation efforts	Using several mediums, continue to provide ongoing education to the public on the hazard risks and opportunities to mitigate those hazard risks.	Fire Dept., Police Dept.
Promoting partnerships with county and state OES agencies.	Agencies meet often to solidify relationships and work together cooperatively for the better good of the community during events.	Fire Dept.
Provided some infrastructure for emergency situations	Obtained a Mobile Communication Vehicle for use in the field during emergencies.	Police Dept.
Annual Fire Prevention Fair at Mt. Shasta Mall	Every year the Redding Fire Department participates with Shasta County Fire Agencies and California Department of Forestry in fire prevention education fair at this central location.	Fire Dept.
Annual School Fire Prevention Visits	Fire Department personnel visited most of the elementary schools in our city this past year and provide fire prevention education to grades K through 3.	Fire Dept.



Current and Completed Hazard Mitigation Programs and Projects		
Program or Project	Description	Agency
Obtained Shasta County Hazardous Materials Response Vehicle	Late 2004 obtained through grants the funding to purchase a state of the art hazardous materials response vehicle with mobile laboratory capabilities. This response vehicle serves five northern counties for hazardous materials response and mitigation purposes.	Multi Agency
Hazardous Occupancy inspection and audit program.	During 2003 and 2004 most of the hazardous occupancies in Redding were comprehensively inspected for fire and life safety concerns. Those inspections were the impetus for a number of enforcements to abate hazards in these occupancies.	Fire Dept.
National Fire Protection Standard 704 Placard Program	During the past 3 years, the fire department initiated and completed the NFPA 704 placarding and marking program to better identify those occupancies that store or use hazardous materials.	Fire Dept.
Shasta County Public Health Department Laboratory Upgrade	The Shasta County Public Health Department recently upgraded their laboratory facility to process and test a variety of materials which may include suspected biological agents. The department added additional microbiologists who received specialized training in select-agent testing.	Shasta County Public Health Department
California Health Alert Network (CAHAN)	The Shasta County Public Health Department has access to the California Health Alert Network.	Shasta County Public Health Department
Bio Defense/Bio Shield Program	The Redding main postal facility of the US Postal Service is being equipped with the Bio Defense/Bio Shield Program.	Shasta County Public Health Department
Hazardous Materials ongoing training.	The SCHMRT continues to train for response to hazardous materials emergencies in our community.	Multi-agency
State OES Safety Assessment Program (SAP)	The City participates in the State OES Safety Assessment Program including assisting in the training of SAP evaluators and SAP coordinators. Currently there are 34 registered SAP evaluators residing within the City limits. The City employs approximately 10 registered SAP evaluators.	Development Services – Building Division
Water Utility Vulnerability Assessment and Emergency Response Plan	Completed the Security Vulnerability Assessment and Emergency Response Plan and Guidelines as required by the Public Health Security and Bioterrorism Preparedness and Response Act.	Municipal Utilities
Water Utility Emergency Response Plan	A comprehensive water facility emergency response plan was updated and completed and submitted to the Department of Health Services - Division of Drinking Water	Municipal Utilities
Hazardous Materials Business Plan	Completed the U.S.E.P.A. required Business Plan for hazardous materials and chemicals for Shasta County Environmental Health Department.	Municipal Utilities
Hazardous Material Training	Water Treatment personnel along with Wastewater personnel are continuing to train as HAZMAT Industry Technicians for emergency responses to hazardous chemical releases at the City's water and wastewater treatment plants.	Municipal Utilities
Emergency Operations Center	Participated in the City's emergency Operations Center drills to prepare for city wide emergencies and disasters.	Municipal Utilities
Groundwater Management Plan	Continued working with Shasta County Water Agency to complete the continued phases of the Department of Water Resources Groundwater Management Plan to improve the City's water supply.	Municipal Utilities



Current and Completed Hazard Mitigation Programs and Projects		
Program or Project	Description	Agency
Install Controls for 30-Inch Water Transmission Main	Installed two (2) new 18-inch control valves in the 30-inch transmission main from the Buckeye Water Treatment Plant to the Buckeye Pressure Zone at Quartz Hill Road and Keswick Dam Road to improve water supply and fire flow requirements in the water distribution system.	Municipal Utilities
2 Million Gallon Reservoir Repair	Completed the rehabilitation and painting of the Redding Ranchettes 2 million gallon reservoir which helps meet water demand and fire flow requirements in the water distribution system in the Cascade Pressure Zone in the southern end of the City.	Municipal Utilities
Constructed a 3,000 GPM Booster Pump Station in the Enterprise Pressure Zone	Completed the construction of the 3,000 gallon per minute Goodwater Booster Pump Station to pump additional water from the Enterprise Pressure Zone to the Hilltop/Dana Pressure Zone to help meet water demand and fire flows in the water distribution system.	Municipal Utilities
Constructed a 1,000 GPM Booster Pump Station in the Hill 900 Pressure Zone	Working with the developer, completed the installation of an additional 75 horsepower, 1,000 gallon-per-minute booster pump to boost distribution system pressure located in the Mary Lake area of the Hill 900 pressure zone to help meet water demand and fire flows in the water distribution system.	Municipal Utilities
Pump Station #1 Electrical Improvements	Completed the installation of new electrical soft starts for two (2) 500 horsepower motors at Pump Station #1 which provides 60 percent of the City's water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Foothill Water Treatment Plant Chlorination Control Improvements	Completed the installation of automatically controlled shut off valves for four (4) of the one ton chlorine cylinders in service at the Foothill Water Treatment Plant to mitigate any hazardous chemical releases or equipment failures.	Municipal Utilities
City of Anderson Water Intertie Agreement	City Council approved a water inter-tie agreement to enhance water system reliability during emergencies to continue to provide water supply and fire flows in the Enterprise Pressure Zone water distribution system in the southeastern area of the City.	Municipal Utilities
City of Shasta Lake Water Intertie Agreement	City Council approved a water inter-tie agreement to enhance water system reliability during emergencies to continue to provide water supply and fire flows in the Buckeye Pressure Zone water distribution system in the northern area of the City.	Municipal Utilities
Centerville Community Service District Water Intertie Agreement	City Council approved a water inter-tie agreement to enhance water system reliability during emergencies to continue to provide water supply and fire flows in the Hill 900 Pressure Zone water distribution system in the west side of the City.	Municipal Utilities
Sited and constructed additional 4 million gallon storage reservoir	A new 4 million gallon reservoir was constructed in close proximity to the 7 MGD Buckeye Water Treatment Plant in the Buckeye Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Replaced 2,500 feet of 6-inch cast iron water main	Completed the installation and up-sizing of 2,500 feet of 8-inch water main along Eureka Way, from Court Street to Orange Avenue to replace 65 year old water mains in the Foothill Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities



Current and Completed Hazard Mitigation Programs and Projects		
Program or Project	Description	Agency
Installed additional 5,170 feet of 12-Inch water main	Completed the installation of 5,170 feet of 12-inch water main on Caterpillar Road from Beltline Road to Highway 273 in the Buckeye Pressure Zone paralleling an existing 8-inch main to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Replaced 1,235 feet of 8-inch cast iron water main	Completed the installation of 1,235 feet of 8-inch water main on Market Street from Tehama Street to Trinity Street in to replace 65 year old water mains in the Foothill Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Replaced 500 feet of 2-inch cast iron water main	Completed the installation of 500 feet of 6-inch water main on Sacramento Street from Magnolia Avenue to Willis Street to replace 60 year old water mains in the Hill 900 Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Replaced 800 feet of 4-inch cast iron water main	Completed the installation of 800 feet of 6-inch water main on Olive Street from Gold Street to Oak Ridge Drive to replace 60 year old water mains in the Hill 900 Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Completed the installation of 500 feet of 12-inch water main to intertie water distribution system	Completed the installation of 500 feet of 12-inch water main under Highway 273 at Canyon Creek to intertie Eastside Road to Westside Road in the Cascade Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Completed the installation of 4,150 feet of 12-inch water main to intertie water distribution system	Completed the installation of 4,150 feet of 12-inch water main on Westside Road at Olney Creek to intertie with Clear Creek Road and Westwood Manor Subdivision in the Cascade Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Replaced 1,725 feet of 2-inch galvanized water main	Completed the installation of 1,810 feet of 8-inch water main on Shaver Lane from Paradise Lane to Glenwood Drive to replace 40 year old galvanized water mains in the Buckeye Pressure Zone. Looped the dead end system to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Replaced 1,150 feet of 2-inch cast iron water main	Completed the installation of 1,150 feet of 6-inch water main on Logan Street from West Street to Railroad Avenue to replace 60 year old 2-inch water mains in the Foothill Pressure Zone to provide additional water supply for water demand and fire flows in the water distribution system.	Municipal Utilities
Purchased 1,800 GPM, 135 Horsepower Mobile Booster Pump	Purchased a 1,800 gallon-per-minute booster pump to boost distribution system pressure during water main breaks and emergencies. Water can be pumped around areas of emergencies or provide emergency water supply to local hospitals to help meet water demand and fire flows in the water distribution system.	Municipal Utilities
Purchased Hose Reel Trailer and Portable Pipeline System	Purchased a hose reel trailer and 5,000 feet of 4-inch through 6-inch portable rollflat pipeline hose and connectors to connect to fire hydrants, pumps, valves, storage tanks and pipe for emergency water supply during water outages.	Municipal Utilities



8.3 GOALS, OBJECTIVES, AND ACTIONS

The goals, objectives, and actions were developed from the information in the hazard vulnerability analysis and loss estimation sections. The goals, objectives, and actions were developed to represent a vision of long-term hazard reduction or enhancement of existing capabilities. This section is organized into three conceptual levels as shown in Table 8-6:

**Table 8-6
MITIGATION STRATEGY ORGANIZATION**

Strategy Levels	Description
Goals	Represent the policy level priorities that the community seeks to achieve to reduce its vulnerability to disasters.
Objectives	Support goals and represent the various strategies to be used to accomplish the goals.
Actions	Support objectives and are the various direct actions that elected officials, staff and the community seek to undertake, as resources permit, to accomplish objectives.

The City of Redding’s Hazard Mitigation Goals are shown in Table 8-7:

**Table 8-7
CITY OF REDDING HAZARD MITIGATION GOALS**

Goal 1	Promote disaster resistance for existing and future development.
Goal 2	Promote public understanding, support and demand for hazard mitigation.
Goal 3	Protect the City of Redding from the devastation of small and large scale disasters
Goal 4	Enhance the City’s ability to rapidly and effectively respond to disasters.
Goal 5	Reduce deaths, injuries, structural damage and losses from wildfires/structure fires.
Goal 6	Reduce deaths, injuries, structural damage and losses from floods
Goal 7	Reduce deaths, injuries, structural damage and losses from hazardous materials releases.
Goal 8	Provide continued and increased protection against releases of hazardous materials from the Clear Creek and Stillwater Wastewater Treatment Plants.
Goal 9	Reduce deaths, injuries, structural damage and losses from severe winter weather.
Goal 10	Reduce deaths, injuries, structural damage and losses from earthquakes.
Goal 11	Reduce deaths, injuries, structural damage and losses from electrical / extreme heat.
Goal 12	Reduce deaths, injuries, structural damage and losses from aviation disasters.
Goal 13	Reduce deaths, injuries, structural damage and losses from bio-terrorism.
Goal 14	Reduce the potential of terrorist activity in the City of Redding.
Goal 15	Reduce deaths, injuries, structural damage and losses from dam overflow or failure.
Goal 16	Reduce deaths, injuries, structural damage and losses from volcanic activity



Redding’s full list of goals, objectives, and actions is shown in Table 8-8.

**TABLE 8-8
MITIGATION STRATEGY**

Table 8-8 Mitigation Strategy	
Goal 1: Promote disaster resistance for existing and future development.	
<i>Objective 1.A:</i>	<i>Encourage and facilitate the development or updating General Plans and Zoning Codes to limit development in hazard areas.</i>
Action 1.A.1:	Modify the City’s General Plan as necessary to address improvements to the Safety Element.
Action 1.A.2:	Modify the City’s Zoning Ordinance as necessary to address development in hazard areas and reflect changes in the General Plan.
<i>Objective 1.B:</i>	<i>Encourage and facilitate the adoption of building and fire codes that protect renovated existing assets and new development in hazard areas.</i>
Action 1.B.1:	Modify local Building and Fire Codes as necessary to address development issues in hazard areas.
Action 1.B.2:	Actively participate in the state and nationwide Building Code development groups to ensure the development issues in hazard areas are properly addressed.
Action 1.B.3:	Require site-specific studies to evaluate specific hazards in hazard prone areas and identify alternative site design criteria to mitigate hazards to the maximum extent possible.
<i>Objective 1.C:</i>	<i>Encourage consistency between General Plan, Zoning Codes and Building and Fire Codes.</i>
Action 1.C.1:	Review General Plan, Zoning Codes, Fire Codes, Subdivision Ordinance and Building Codes for consistency.
Action 1.C.2:	Establish hazard mitigation training for development staff on development procedures in zoning and Building Code interpretation.
<i>Objective 1.D:</i>	<i>Address identified data limitations regarding the lack of information about new development and build-up potential in hazard areas.</i>
Action 1.D.1:	Update data base/Geographic Information System (GIS), with particular attention to maintaining hazard overlay layers.
<i>Objective 1.E:</i>	<i>Actively pursue grant funding for City-wide hazard mitigation.</i>
Action 1.E.1:	Apply for hazard mitigation grant funding as it becomes available.
Goal 2: Promote public understanding, support and demand for hazard mitigation.	
<i>Objective 2.A:</i>	<i>Educate the public to increase awareness of all hazards and opportunities for mitigation actions.</i>



Table 8-8 Mitigation Strategy

Action 2.A.1:	Assist local mobile home parks with their community preparedness plans.
Action 2.A.2:	Develop and conduct a variety of community workshops to educate about earthquake preparedness and the benefits of retrofitting buildings for improved seismic performance.
Action 2.A.3:	Increase awareness among at-risk populations of emerging earthquake damage mitigation techniques.
Action 2.A.4:	Develop a program that identifies the needs of senior citizens and assists them to meet those needs.
Action 2.A.5:	Utilize the “ <i>Redding Record Searchlight</i> ” to provide disaster preparedness and mitigation information.
<i>Objective 2.B:</i>	<i>Promote partnerships among federal, state, county and local governments to identify, prioritize and implement mitigation actions.</i>
Action 2.B.1:	Maintain communications with FEMA, State OES, County OES and other Northern California cities to address hazard mitigation issues.
<i>Objective 2.C:</i>	<i>Promote hazard mitigation in the business community.</i>
Action 2.C.1:	Explore potential hazard mitigation programs with the Chamber of Commerce, e.g., Street Fair, workshops, website information, etc.
Action 2.C.2:	Utilize the Fire Department’s fire prevention inspection program to educate business owners and managers regarding hazard mitigation.
<i>Objective 2.D:</i>	<i>Discourage activities that exacerbate hazardous conditions.</i>
Action 2.D.1:	Explore ways to develop programs and public service announcements on local government cable channel that demonstrate and encourage hazard correction and disaster preparedness.
<i>Objective 2.E:</i>	<i>Increase awareness hazard mitigation principles among local officials.</i>
Action 2.E.1:	When appropriate, issue hazard-related news releases.
Action 2.E.2:	When appropriate, conduct meetings with various City Departments to share information and innovations in hazard mitigation.
Action 2.E.3:	Coordinate hazard mitigation activities with local utilities, water suppliers and critical facilities within the City.
Action 2.E.4:	Utilize on-going drills at the Emergency Operations Center to increase awareness of hazards and their mitigation measures.
<i>Objective 2.F:</i>	<i>Assure adequate infrastructure is in-place for emergencies.</i>
Action 2.F.1:	Promote the establishment and maintenance of: safe and effective evacuation routes; ample peak-load water supply; adequate road widths; and safe clearances around buildings.
Action 2.F.2:	Explore non-traditional public and private mutual aid resources.
Goal 3: Protect the City of Redding from the devastation of small and large scale disasters	
<i>Objective 3.A:</i>	<i>Continue to enhance emergency preparedness and pursue the identified mitigation efforts.</i>
Action 3.A.1:	Explore the possibility of creating a position to coordinate and manage emergency preparedness and implement mitigation efforts on a full-time basis.



Table 8-8 Mitigation Strategy	
<i>Objective 3.B:</i>	<i>Create a cost efficient interoperable communications system for the City of Redding.</i>
Action 3.B.1:	Designate committee members made up of representatives for all City agencies to give oversight for creating an interoperable communications system and fund the system through various grants and City funds.
<i>Objective 3.C:</i>	<i>Continue to review and update the Local Hazard Mitigation Plan.</i>
Action 3.C.1:	Bring the Hazard Mitigation Project Team together annually to meet, review, and update the plan.
Goal 4: Enhance the City's ability to rapidly and effectively respond to disasters.	
<i>Objective 4.A:</i>	<i>Develop a comprehensive approach to enhance the City's ability to respond to disasters.</i>
Action 4.A.1:	Encourage liaison agencies to develop emergency response plans and participate in emergency exercises.
Action 4.A.2:	Keep the City's multi-hazard functional plan updated.
Action 4.A.3:	As funding permits, enhance the use of GIS and Information Technology in the Emergency Operations Center.
Action 4.A.4:	Review all non-profiled hazards (train accidents, aircraft crashes, drought, extreme heat, terrorism, extreme pollution, power failure) regularly and update or develop procedures to effectively respond to them.
<i>Objective 4.B:</i>	<i>Develop a program to enhance the disaster response skills of City employees.</i>
Action 4.B.1:	As resources permit, continue to develop the disaster response orientation for City employees.
Action 4.B.2:	Continue to update information for employees that describe their responsibilities following a disaster.
<i>Objective 4.C:</i>	<i>Prevent, monitor, respond to local emergencies by maintaining an up-to-date City Geographic Information System (GIS).</i>
Action 4.C.1:	Identify data layer for hazard mitigation applicable to the City of Redding.
Action 4.C.2:	Make GIS available to emergency response personnel during an emergency.
Action 4.C.3:	Ensure GIS resources are adequate to maintain critical data base.
<i>Objective 4.D:</i>	<i>Enhance the Police and Fire Department's ability to effectively function in disasters.</i>
Action 4.D.1:	Seek grants to conduct a variety of training programs, classroom and field drills for Police and Fire personnel, including terrorism response, the Incident Command System, NIMS and other appropriate topics.
Action 4.D.2:	Seek Department of Homeland Security Grants to equip field personnel for terrorism incidents.
<i>Objective 4.E:</i>	<i>Continue to implement all current hazard mitigation programs and projects.</i>
Action 4.E.1:	Review all current hazard mitigation activities and seek to continue their implementation.
Action 4.E.2:	Review all current hazard mitigation activities, as necessary, develop better ways to implement them.
Goal 5: Reduce deaths, injuries, structural damage and losses from wildfires/structure fires.	



Table 8-8 Mitigation Strategy	
<i>Objective 5.A:</i>	<i>Enforce Fire and Building Codes and the General Plan for the City of Redding which will minimize damage to homes and structures from wildland fires.</i>
Action 5.A.1:	Ensure new subdivisions have adequate fire protection measures, such as multiple access for fire apparatus, noncombustible building construction, residential sprinkler systems, appropriate defensible space, street widths and grade to accommodate emergency vehicles and evacuees simultaneously.
Action 5.A.2:	Ensure defensible space is being provided for all new and existing homes; ensure roofing material is noncombustible on new homes and wood shake roofs on existing homes, when replaced, meet code requirements for noncombustibility; and installation of a spark arresting system on chimneys of homes with wood burning fireplaces
<i>Objective 5.B:</i>	<i>Educate the public about wildland fire dangers and the steps that can be taken to prevent or minimize their effects.</i>
Action 5.B.1:	Ensure the City provides sufficient education and guidance on wildland fire mitigation and emergency planning for the public.
Action 5.B.2:	Distribute wildland fire mitigation information to persons applying for building permits in the City of Redding in the very high fire hazard severity zone. Funding is available to develop and distribute material.
<i>Objective 5.C:</i>	<i>Reduce the probability of fire ignitions.</i>
Action 5.C.1:	Focus on human causes of ignition and address the problem through education and enforcement actions, to include vigorous investigation and prosecution of arson.
Goal 6: Reduce deaths, injuries, structural damage and losses from Floods.	
<i>Objective 6.A:</i>	<i>Enforce the Building Codes, the General Plan and Zoning Ordinances of the City of Redding, which will prevent or minimize damage to residential and commercial structures from flooding.</i>
Action 6.A.1:	Ensure that new development does not encroach on the designated floodplain.
Action 6.A.2:	Ensure that new development does not contribute to downstream flow increases through the use of detention/retention measures, and continue to review plans and hydraulic calculations for new development to limit net flow increases.
<i>Objective 6.B:</i>	<i>Reduce the possibility of localized flooding.</i>
Action 6.B.1:	Routinely inspect storm water channels for vegetation build-up or encroachment, trash and debris, silt and gravel build-up, and erosion or bank failure; and routinely maintain said channels where permitted by California Department of Fish and Game.
Action 6.B.2:	Routinely inspect and maintain storm water inlets and outfalls for debris and obstructions, sand and gravel build-up, and structural damage or vandalism.
<i>Objective 6.C:</i>	<i>Alleviate pre-existing flooding conditions that are a result of past practices and regulations, or lack of regulation.</i>
Action 6.C.1:	Update Storm Drain Master Plan; identify key projects needed to minimize flooding and their costs; identify regional detention policies and locations to minimize the impact of future development; and develop costs and possible funding strategies for the identified capital projects.
Goal 7: Reduce deaths, injuries, structural damage and losses from Hazardous Materials Releases.	
<i>Objective 7.A:</i>	<i>Develop a comprehensive approach to enhance the City's ability to respond to Hazardous Materials Releases.</i>



Table 8-8 Mitigation Strategy	
Action 7.A.1:	Encourage the County, State and Federal hazardous materials regulators to continue updating and consistent enforcing of hazardous materials regulations. Financial Impact: 0
Action 7.A.2:	Conduct hazardous materials incident emergency exercises. Financial Impact: \$10,000
Action 7.A.3:	Introduce hazardous materials plume modeling software into the Emergency Operations Center. Financial Impact: \$500
Action 7.A.4:	Reinforce our partnership with Shasta County Environmental Health to provide additional information on all businesses regarding their use, handling, storage, and transportation of hazardous materials and their generation and disposal of hazardous wastes. Financial Impact: 0
Action 7.A.5:	Make sure that hazardous processes are not allowed to be adjacent to or co-mingle with residential or high life hazard occupancies. Financial impact: 0
Action 7.A.6:	Provide, along with other stakeholders, educational materials to our businesses who work with hazardous materials that clearly identify the risks, the safe practices for use and the requirements for storage of hazardous materials. Financial impact: \$50,000
<i>Objective 7.B:</i>	<i>Train personnel to the technician and specialist level to be an integral part of the Regional Hazardous Materials Response Team.</i>
Action 7.B.1:	Provide continued funding for training to enhance and promote safe hazardous materials responses by City personnel. Financial impact: \$100,000.
Action 7.B.2:	Invite rail freight companies to conduct freight train accident response training with City Field responders. Financial impact: \$5,000
Goal 8:	Provide continued and increased protection against releases of hazardous materials from the Clear Creek and Stillwater Wastewater Treatment Plants.
<i>Objective 8.A:</i>	<i>Upgrade aging facilities with newer protective measures whenever feasible.</i>
Action 8.A.1:	Install a chemical scrubbing system at the Clear Creek Plant when the facility is upgraded in the future.
Action 8.A.2:	Install vandalism and terrorism preventive enhancements at both the Clear Creek and Stillwater Treatment Plants, such as considering more extensive perimeter fencing, video surveillance and stronger door locks.
<i>Objective 8.B:</i>	<i>Continue staff preparedness for releases of hazardous chemicals.</i>
Action 8.B.1:	Continue monthly training and annual recertification of the RMU Hazmat team, with ongoing emergency response practice exercises and safety equipment upgrades as needed.
Action 8.B.2:	Control visitor and contractor access to both treatment plant facilities through such actions as gate locking and sign-in procedures.
Goal 9:	Reduce deaths, injuries, structural damage and losses from severe winter weather.
<i>Objective 9.A:</i>	<i>Ensure that structures in the City are adequate to resist snow and wind loads.</i>



Table 8-8 Mitigation Strategy	
Action 9.A.1:	Continue to enforce the snow and wind provisions of the latest edition of the California Building Code for new construction, alterations and additions.
Action 9.A.2:	Continue to require a snow load analysis of existing structures (built prior to 1970) that undergo a change in use or occupancy that results in a higher hazard occupancy group.
Action 9.B.3:	Conduct annual emergency operation's center drills to ensure efficiency of City staff and coordination of resources and information.
<i>Objective 9.B:</i>	<i>Ensure City preparedness for emergency response actions due to severe winter weather.</i>
Action 9.B.1:	Continue active participation and training of City personnel in the State OES Safety Assessment Program (SAP).
Action 9.B.2:	Provide yearly review of the procedures of safety assessment inspections including proper use of the City's official placards (unsafe, restricted use & inspected) and how to complete the rapid and detailed safety assessment evaluation forms.
Goal 10:	Reduce deaths, injuries, structural damage and losses from earthquakes.
<i>Objective 10.A:</i>	<i>Ensure that structures in the City are adequately earthquake resistant.</i>
Action 10.A.1:	Continue to enforce the seismic provisions of the latest edition of the California Building Code for new construction, alterations and additions.
Action 10.A.2:	Continue to require a seismic analysis of existing structures (built under earlier building codes) that undergo a change in use or occupancy that results in a higher hazard occupancy group.
Action 10.B.3:	Conduct annual emergency operation's center drills to ensure efficiency of City staff and coordination of resources and information.
<i>Objective 10.B:</i>	<i>Ensure City preparedness for emergency response actions due to earthquakes.</i>
Action 10.B.1:	Continue active participation and training of City personnel in the State OES Safety Assessment Program (SAP).
Action 10.B.2:	Provide yearly review of the procedures of safety assessment inspections including proper use of the City's official placards (unsafe, restricted use & inspected) and how to complete the rapid and detailed safety assessment evaluation forms.
Goal 11:	Reduce deaths, injuries, structural damage and losses from electrical / extreme heat.
<i>Objective 11.A:</i>	<i>Manage the Power System to ensure safe and reliable operation of the City's electric system through twenty-four-hour dispatching of the distribution system and real-time scheduling of the City's power plants.</i>
Action 11.A.1:	Provide safe, reliable switching control and coordination of field crews throughout the year.
Action 11.A.2:	Real-time operators and preschedulers continue to constantly monitor the energy market for opportunities to reduce power supply costs.
<i>Objective 11.B:</i>	<i>Ensure the Redding Power Plant is available to meet the City's needs whenever required.</i>
Action 11.B.1:	Continue to maintain the existing Redding Power Plant units' availability at 95.1%.
<i>Objective 11.C:</i>	<i>Continue construction of new or upgrading of existing 115kV transmission, substation, and distribution facilities to meet expanding system needs and maintain a reliable and safe system.</i>



Table 8-8 Mitigation Strategy	
Action 11.C.1:	Complete the Moore Road Substation expansion by June 2005.
Action 11.C.2:	Install 11 miles of new 12kV distribution line.
<i>Objective 11.D: Continue to mitigate potential hazards of trees in the proximity of overhead power lines.</i>	
Action 11.D.1:	Continue to implement a program that allows for trimming of trees on a three-year or less trim cycle that meets new California State Public Utility Commission (CPUC) tree-trimming clearance standards that were established in January of 1997.
Action 11.D.2:	Continue to implement a program to apply tree growth regulators to slow the growth of aster growing trees located adjacent to or under overhead power lines.
<i>Objective 11.E: Continue to serve all customers in the event of a single contingency equipment failure or main feeder line failure.</i>	
Action 11.E.1:	Review and update existing 115kV and 115/12kV substation and 12kV distribution expansion plans.
Goal 12:	Reduce deaths, injuries, structural damages and losses from aviation disasters.
<i>Objective 12.A: Implement the adopted Airport Emergency Plan which is utilized to mitigate and respond to an aviation disaster.</i>	
Action 12.A.1:	Continue to update the Airport Emergency Plan.
Action 12.A.2:	Ensure the Airport Emergency Plan complies with FAA regulations.
Action 12.A.3:	Conduct aviation disaster drills once every three years.
Goal 13:	Reduce deaths, injuries, structural damage and losses from bio-terrorism.
<i>Objective 13.A: Provide training to personnel in the latest tactics and personal protection in the event of bio-terrorism.</i>	
Action 13.A.1:	Continue to provide training to all personnel to meet mandated requirements for the Hazardous Materials Operational Level.
Action 13.A.2:	Continue to provide training to a small group of personnel to the higher levels of Hazardous Materials Technician and Specialists.
Action 13.A.3:	Continue to apply for grants to assist with the expenses associated with ongoing training and updated equipment purchases.
<i>Objective 13.B: Enhance communication between agencies to mitigate deaths, injuries, structural damage and losses from bio-terrorism.</i>	
Action 13.B.1:	Continue membership with the Shasta County Public Health Joint Advisory Council (JAC).
Action 13.B.2:	Continue to provide access to the California Health Alert Network (CAHAN).
Goal 14:	Reduce the potential of terrorist activity in the City of Redding.
<i>Objective 14.A: Increase the expertise and awareness of various City of Redding personnel regarding terrorism issues.</i>	
Action 14.A.1:	Selected police officers and fire fighters will attend training regarding weapons of mass destruction (WMD).
Action 14.A.2:	Obtain access to FBI secure database for terrorism related, law enforcement sensitive information.
<i>Objective 14.B: Increase networking communication between City of Redding personnel and the community regarding terrorist related activity.</i>	



Table 8-8 Mitigation Strategy	
Action 14.B.1:	Increase community awareness through Neighborhood Watch crime prevention program.
Action 14.B.2:	Disseminate press releases and activate the Emergency Alert System (EAS) during times of severe terrorism threat conditions.
<i>Objective 14.C: Augment City of Redding personnel with additional personal protective equipment (PPE).</i>	
Action 14.C.1:	Procure additional weaponry for police personnel such as small caliber patrol rifles.
Goal 15:	Reduce the possibility of property damage and loss of life due to flooding from a dam overflow or failure.
<i>Objective 15.A: Maintain best possible coordination of information and emergency response.</i>	
Action 15.A.1:	Continue communication and coordination with the Bureau of Reclamation and maintain up-to-date Inundation maps.
Action 15.A.2:	Maintain Emergency Operations Center (EOC) for coordination of information and emergency response, with annual exercises simulating disaster response. Funding is available.
Goal 16:	Reduce deaths, injuries, structural damage and losses from volcanic activity.
<i>Objective 16.A: Minimize future deaths, injuries, structural damage and losses due to volcanic activity.</i>	
Action 16.A.1:	Monitor the situations and develop a plan when and if the probability of volcanic activity increases to a level of significance.



8.3.1 CONSIDERATION OF POTENTIAL ACTION ITEMS

The following table, Table 8-9, summarizes the implementation of specific mitigation actions and projects being considered by elected officials, staff, and the community, as resources permit to reduce the effects of each hazard. The table lists each action and indicates a responsible agency or department, shows a priority rating, establishes a time line for completion, shows potential funding sources and other necessary resources. The priorities were based on a review by the LHMP Team, according to their greatest cost benefit ratio, their expected present value, and their internal rate of return.

Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
1.A.1	Modify the City's General Plan as required by law to address improvements to the Safety Element.	DS	1 - 5	GF	EC	1
1.A.2	Modify the City's Zoning Ordinance as required by law to address development in hazard areas and reflect changes in the General Plan.	DS	1 - 5	GF	EC	2
1.B.1	Modify local Building and Fire Codes as required by law to address development issues in hazard areas.	DS/FD	1 - 5	GF	EC	1
1.B.2	Actively participate in the state and nationwide Code development groups to ensure development issues in hazard areas are properly addressed.	DS/FD	1 - 5	GF	EC	3
1.B.3	Require site-specific studies to evaluate specific hazards in hazard-prone areas and identify alternative site design criteria to mitigate hazards to the maximum extent possible.	DS/FD	1 - 5	GF	EC	1
1.C.1	Review General Plan, Zoning Codes, Fire Codes, Subdivision Ordinance and Building Codes for consistency.	DS/FD	2 - 4	GF	EC	2
1.C.2	Establish hazard mitigation training for development staff on development procedures and Zoning and Building Code interpretation.	DS/FD	2 - 4	GF	EC	3

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| <p>1</p> <p>Lead
 CM - City Manager
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 PW - Public Works Department
 SS - Support Services
 EL - Electric</p> | <p>Time Line
 1: One Year or Less
 2 - 4: Years
 5+: Five Years or More
 1 - 5: Continuous</p> | <p>Funding
 GF - General Fund
 EF - Enterprise Fund
 HMGP - Federal Hazard Mitigation Grant Program
 DHS - Department of Homeland Security
 CIP - Capital Improvement Project Funding
 DS - Development Fees
 CDBG - Community Development Block Grants</p> | <p>Cost
 EC - Existing Cost
 TBD - To Be Determined</p> | <p>Priority
 1 - Highest Priority
 2 - Medium Priority
 3 - Lowest Priority</p> |
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Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
1.D.1	Update data base/Geographic Information System (GIS) with particular attention to maintaining hazard overlay layers.	DS	2 - 4	GF	EC	1
1.E.1	Apply for hazard mitigation grant funding as it becomes available.	All	1 - 5	GF	EC	1
2.A.1	Assist local mobile home parks with their community preparedness plans	FD	2 - 4	GF	EC	2
2.A.2	Develop and conduct a variety of community workshops to educate about earthquake preparedness and the benefits of retrofitting buildings for improved seismic performance.	DS/FD	2 - 4	GF	EC	2
2.A.3	Increase awareness among at-risk populations of emerging earthquake damage mitigation techniques.	DS	1 - 5	GF	EC	2
2.A.4	Develop a program that identifies the needs of senior citizens and assists them to meet those needs.	FD	1 - 5	GF	EC	2
2.A.5	Utilize the "Redding Record Searchlight" to provide disaster preparedness and mitigation information.	FD	2 - 4	GF	EC	1
2.B.1	Maintain communications with FEMA, State OES, County OES and other Northern California cities to address hazard mitigation issues	All	1 - 5	GF	EC	1
2.C.1	Explore potential hazard mitigation programs with the Chamber of Commerce, e.g., Street Fair, workshops, website information, etc.	All	1 - 5	GF	EC	2
2.C.2	Utilize the Fire Department's fire prevention inspection program to educate business owners and managers regarding hazard mitigation.	FD	2 - 4	GF	EC	1
2.D.1	Explore ways to develop programs and public service announcements on local government cable channel that demonstrate and encourage hazard correction and disaster preparedness.	DS/FD	1 - 5	GF	EC	2

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| <p>1</p> <p>Lead</p> <ul style="list-style-type: none"> CM - City Manager DS - Development Services Department FD - Fire Department MU - Municipal Utilities PD - Police Department PW - Public Works Department SS - Support Services EL - Electric | <p>Time Line</p> <ul style="list-style-type: none"> 1: One Year or Less 2 - 4: Years 5+: Five Years or More 1 - 5: Continuous | <p>Funding</p> <ul style="list-style-type: none"> GF - General Fund EF - Enterprise Fund HMGP - Federal Hazard Mitigation Grant Program DHS - Department of Homeland Security CIP - Capital Improvement Project Funding DS - Development Fees CDBG - Community Development Block Grants | <p>Cost</p> <ul style="list-style-type: none"> EC - Existing Cost TBD - To Be Determined | <p>Priority</p> <ul style="list-style-type: none"> 1 - Highest Priority 2 - Medium Priority 3 - Lowest Priority |
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Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
2.E.1	When appropriate, issue hazard-related news releases.	FD	2 - 4	GF	EC	1
2.E.2	When appropriate, conduct meetings with various City Departments to share information and innovations in hazard mitigation.	DS	2 - 4	GF	EC	2
2.E.3	Coordinate hazard mitigation activities with local utilities, water suppliers and critical facilities within the City.	All	2 - 4	GF	EC	1
2.E.4	Utilize on-going drills at the Emergency Operations Center to increase awareness of hazards and their mitigation measures.	FD	1 - 5	GF	EC	1
2.F.1	Promote the establishment and maintenance of: safe and effective evacuation routes; ample peak-load water supply; adequate road widths; and safe clearances around buildings.	All	1 - 5	GF	EC	1
2.F.2	Explore non-traditional public and private mutual aid resources.	All	1 - 5	GF	EC	2
3.A.1	Explore the possibility of creating a position to coordinate and manage emergency preparedness and implement mitigation efforts on a full-time basis.	FD	2 - 4	GF	EC	2
3.B.1	Designate committee members made up of representatives for all City agencies to give oversight for creating an interoperable communications system and fund the system through various grants and City funds.	All	2 - 4	GF	EC	1
3.C.1	Bring the Hazard Mitigation Project Team together annually to meet, review, and update the plan.	All	1 - 5	GF	EC	1
4.A.1	Encourage liaison agencies to develop emergency response plans and participate in emergency exercises.	FD/PD	1 - 5	GF	EC	3
4.A.2	Keep the City's multi-hazard functional plan updated.	FD	1 - 5	GF	EC	1

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Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
4.A.3	As funding permits, enhance the use of GIS and Information Technology in the Emergency Operations Center.	FD/SS	1 - 5	GF/DHS	EC	1
4.A.4	Review all non-profiled hazards (train accidents, aircraft crashes, drought, extreme heat, terrorism, extreme pollution, power failure) regularly and update or develop procedures to effectively respond to them.	All Dept.'s	1 - 5	GF	EC	3
4:B:1	As resources permit, continue to develop the disaster response orientation for City employees.	FD	1 - 5	GF	EC	2
4:B:2	Continue to update information for employees that describe their responsibilities following a disaster.	FD	1 - 5	GF	EC	2
4.C.1	Identify data layer for hazard mitigation applicable to the City of Redding.	DS	1 - 5	GF	EC	1
4.C.2	Make GIS available to emergency response personnel during an emergency.	DS	1	GF/DHS	EC	2
4.C.3	Ensure GIS resources are adequate to maintain critical data base.	DS	2 - 4	GF+ TBD	EC	2
4.D.1	Seek grants to conduct a variety of training programs, classroom and field drills for Police and Fire personnel, including terrorism response, the Incident Command System, NIMS and other appropriate topics.	DS/FD	1 - 5	DHS	EC	1
4.D.2	Seek Department of Homeland Security Grants to equip field personnel for terrorism incidents.	SS	1 - 5	DHS	TBD	1
4.E.1	Review all current hazard mitigation activities and seek to continue their implementation.	FD/PD	1	DHS	EC	1
4.E.2	Review all current hazard mitigation activities, as necessary, develop better ways to implement them.	All Agencies	1 - 5	GF	EC	1

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|--|--|---|---|---|



Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
5.A.1	Ensure new subdivisions in the very high fire severity zone have adequate fire protection measures which may include one or more of the following. Multi-access for fire apparatus, noncombustible building construction, residential sprinkler systems, appropriate defensible space, street widths and grade to accommodate emergency vehicles and evacuees simultaneously.	All Agencies	1	GF	EC	1
5.A.2	Ensure defensible space is being provided for all new and existing homes; ensure roofing material is noncombustible and woodshake roofs on existing homes, when replaced, meet Code requirements for noncombustibility; and installation of a spark arresting system on chimneys of homes with burning fireplaces.	FD	1	GF	EC	1
5.B.1	Ensure the City provides sufficient education and guidance on wildland fire mitigation and emergency planning for the public.	FD	1	GF	EC	1
5.B.2	Distribute wildland fire mitigation information to persons applying for building permits in the City of Redding in the very high fire hazard severity zone.	DS/FD	1 - 5	GF	EC	1
5.C.1	Focus on human causes of ignition and address the problem through education and enforcement actions to include vigorous investigation of prosecution of arson.	FD	1 - 5	GF	EC	1
6.A.1	Ensure that new development does not encroach on the designated floodplain.	DS	1-5	GF	EC	1
6.A.2	Ensure that new development does not contribute to downstream flow increases through the use of detention/retention measures, and continue to review plans and hydraulic calculations for new development to limit net flow increases.	DS	1-5	GF	EC	1
6.B.1	Routinely inspect storm water channels for vegetation build-up or encroachment, trash and debris, silt and gravel build-up, and erosion or bank failure; and routinely maintain said channels where permitted by California Department of Fish and Game.	MU	1-5	ENT	EC	1

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Cost

- EC - Existing Cost
- TBD - To Be Determined

Priority

- 1 - Highest Priority
- 2 - Medium Priority
- 3 - Lowest Priority



Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
6.B.2	Routinely inspect and maintain storm water inlets and outfalls for debris and obstructions, sand and gravel build-up, and structural damage or vandalism.	MU	1-5	ENT	EC	1
6.C.1	Update Storm Drain Master Plan; identify key projects needed to minimize flooding and their costs; identify regional detention policies and locations to minimize the impact of future development; and develop costs and possible funding strategies for the identified capital projects.	DS/MU	2-4	ENT	EC	1
7.A.1	Encourage the County, State and Federal hazardous materials regulators to continue updating and consistent enforcing of hazardous materials regulations.	FD	1 - 5	GF	EC	1
7.A.2	Conduct hazardous materials incident emergency exercises.	PD/FD	1 - 5	TBD	\$10,000	1
7.A.3	Introduce hazardous materials plume modeling software into the Emergency Operations Center.	FD	5+	TBD	\$500	2
7.A.4	Reinforce our partnership with Shasta County Environmental Health to provide additional information on all businesses regarding their use, handling, storage, and transportation of hazardous materials and their generation and disposal of hazardous wastes.	FD	2 - 4	GF	EC	2
7.A.5	Make sure that hazardous processes are not allowed to be adjacent to or co-mingle with residential or high life hazard occupancies.	DS/FD	1 - 5	GF	EC	1
7.A.6	Provide, along with other stakeholders, educational materials to our businesses who work with hazardous materials that clearly identify the risks, the safe practices for use and the requirements for storage of hazardous materials.	FD	1 - 5	TBD	\$50,000	2
7.B.1	Provide continued funding for training to enhance and promote safe hazardous materials responses by City personnel.	PD/FD	1 - 5	TBD	\$100,000	2
7.B.2	Invite rail freight companies to conduct freight train accident response training with City Field responders.	PD/FD	1 - 5	TBD	\$5,000	2

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Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
8.A.1	Install a chemical scrubbing system at the Clear Creek Plant when the facility is upgraded in the future.	MU		EF		1
8.A.2	Install vandalism and terrorism preventive enhancements at both the Clear Creek and Stillwater Treatment Plants, such as considering more extensive perimeter fencing, video surveillance and stronger door locks.	MU	1	EF	EC	1
8.B.1	Continue monthly training and annual recertification of the RMU Hazmat team, with ongoing emergency response practice exercises and safety equipment upgrades as needed.	MU/FD	1 - 5	EF/GF	EC	1
8.B.2	Control visitor and contractor access to both treatment plant facilities through such actions as gate locking and sign-in procedures.	MU	1	EF	EC	1
9.A.1	Continue to enforce the snow and wind provisions of the latest edition of the California Building Code for new construction, alterations and additions.	DS	1-5	GF	EC	1
9.A.2	Continue to require a snow load analysis of existing structures (built prior to 1970) that undergo a change in use or occupancy that results in a higher hazard occupancy group.	DS	1-5	GF	EC	1
9.B.1	Continue active participation and training of City personnel in the State OES Safety Assessment Program (SAP).	DS	1-5	GF	EC	2
9.B.2	Provide yearly review of the procedures of safety assessment inspections including proper use of the City's official placards (unsafe, restricted use & inspected) and how to complete the rapid and detailed safety assessment evaluation forms.	DS	1-5	GF	EC	3
9.B.3	Conduct annual emergency operation's center drills to ensure efficiency of City staff and coordination of resources and information.	DS	1-5	GF	EC	1
10.A.1	Continue to enforce the seismic provisions of the latest edition of the California Building Code for new construction, alterations and additions.	DS	1-5	GF	EC	1

- | | | | | |
|--|--|---|---|---|
| <p>1</p> <p>Lead</p> <ul style="list-style-type: none"> CM - City Manager DS - Development Services Department FD - Fire Department MU - Municipal Utilities PD - Police Department PW - Public Works Department SS - Support Services EL - Electric | <p>Time Line</p> <ul style="list-style-type: none"> 1: One Year or Less 2 - 4: Years 5+: Five Years or More 1 - 5: Continuous | <p>Funding</p> <ul style="list-style-type: none"> GF - General Fund EF - Enterprise Fund HMGP - Federal Hazard Mitigation Grant Program DHS - Department of Homeland Security CIP - Capital Improvement Project Funding DS - Development Fees CDBG - Community Development Block Grants | <p>Cost</p> <ul style="list-style-type: none"> EC - Existing Cost TBD - To Be Determined | <p>Priority</p> <ul style="list-style-type: none"> 1 - Highest Priority 2 - Medium Priority 3 - Lowest Priority |
|--|--|---|---|---|



Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
10.A.2	Continue to require a seismic analysis of existing structures (built under earlier building codes) that undergo a change in use or occupancy that results in a higher hazard occupancy group.	DS	1-5	GF	EC	1
10.B.1	Continue active participation and training of City personnel in the State OES Safety Assessment Program (SAP).	DS	1-5	GF	EC	2
10.B.2	Provide yearly review of the procedures of safety assessment inspections including proper use of the City's official placards (unsafe, restricted use & inspected) and how to complete the rapid and detailed safety assessment evaluation forms.	DS	1-5	GF	EC	3
10.B.3	Conduct annual emergency operation's center drills to ensure efficiency of City staff and coordination of resources and information.	DS	1-5	GF	EC	1
11.A.1	Provide safe, reliable switching control and coordination of field crews throughout the year.	EL	1 - 5	EF	EC	1
11.A.2	Real-time operators and preschedulers continue to constantly monitor the energy market for opportunities to reduce power supply costs.	EL	1 - 5	EF	EC	1
11.B.1	Continue to maintain the existing Redding Power Plant units' availability at 95.1%.	EL	1 - 5	EF	EC	1
11.C.1	Complete the Moore Road Substation expansion by June 2005.	EL	1	EF	EC	1
11.C.2	Install 11 miles of new 12kV distribution line.	EL	2 - 4	EF	EC	1
11.D.1	Continue to implement a program that allows for trimming of trees on a three-year or less trim cycle that meets new California State Public Utility Commission (CPUC) tree-trimming clearance standards that were established in January of 1997.	EL	1 - 5	EF	EC	1
11.D.2	Continue to implement a program to apply tree growth regulators to slow the growth of faster growing trees located adjacent to or under overhead power lines.	EL	1 - 5	EF	EC	1

- | | | | | |
|---|---|--|--|--|
| <p>1</p> <p>Lead
 CM - City Manager
 DS - Development Services Department
 FD - Fire Department
 MU - Municipal Utilities
 PD - Police Department
 PW - Public Works Department
 SS - Support Services
 EL - Electric</p> | <p>Time Line
 1: One Year or Less
 2 - 4: Years
 5+: Five Years or More
 1 - 5: Continuous</p> | <p>Funding
 GF - General Fund
 EF - Enterprise Fund
 HMGP - Federal Hazard Mitigation Grant Program
 DHS - Department of Homeland Security
 CIP - Capital Improvement Project Funding
 DS - Development Fees
 CDBG - Community Development Block Grants</p> | <p>Cost
 EC - Existing Cost
 TBD - To Be Determined</p> | <p>Priority
 1 - Highest Priority
 2 - Medium Priority
 3 - Lowest Priority</p> |
|---|---|--|--|--|



Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
11.E.1	Review and update existing 115kV and 115/12kV substation and 12kV distribution expansion plans.	EL	1 - 5	EF	EC	1
12.A.1	Continue to update the Airport Emergency Plan.	SS	1 - 5	EF	EC	1
12.A.2	Ensure the Airport Emergency Plan complies with FAA regulations.	SS	1	EF	EC	1
12.A.3	Conduct aviation disaster drills once every three years.	SS	1 - 5	EF	EC	1
13.A.1	Continue to provide training to all personnel to meet mandated requirements for the Hazardous Materials Operational Level.	PD/FD	1 - 5	EF	EC	1
13.A.2	Continue to provide training to a small group of personnel to the higher levels of Hazardous Materials Technician and Specialists.	MU/FD	1 - 5	EF	EC	1
13.A.3	Continue to apply for grants to assist with the expenses associated with ongoing traing and updated equipment purchases.	All	1 - 5	EF	EC	1
13.B.1	Continue membership with the Shasta County Public Health Joint Advisory Council (JAC).	All	1 - 5	GF	EC	1
13.B.2	Continue to provide access to the California Health Alert Network (CAHAN).	All	1 - 5	GF	EC	1
14.A.1	Selected police officers and fire fighters will attend training regarding weapons of mass destruction (WMD).	PD/FD	1 - 5	GF	EC	1
14.A.2	Obtain access to FBI secure database for terrorism related, law enforcement sensitive information.	PD	2 - 4	GF	EC	1
14.B.1	Increase community awareness through Neighborhood Watch crime prevention program.	PD	1 - 5	GF	EC	1

1

Lead

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- PW - Public Works Department
- SS - Support Services
- EL - Electric

Time Line

- 1: One Year or Less
- 2 - 4: Years
- 5+: Five Years or More
- 1 - 5: Continuous

Funding

- GF - General Fund
- EF - Enterprise Fund
- HMGP - Federal Hazard Mitigation Grant Program
- DHS - Department of Homeland Security
- CIP - Capital Improvement Project Funding
- DS - Development Fees
- CDBG - Community Development Block Grants

Cost

- EC - Existing Cost
- TBD - To Be Determined

Priority

- 1 - Highest Priority
- 2 - Medium Priority
- 3 - Lowest Priority



Table 8-9 Consideration of Potential Action Items						
Action Item #	Action	Lead Agency	Time Line	Fund Source	Cost	Priority Rating
14.B.2	Disseminate press releases and activate the Emergency Alert System (EAS) during times of severe terrorism threat conditions.	All	1 - 5	GF	EC	1
14.C.1	Procure additional weaponry for police personnel such as small caliber patrol rifles.	PD	2 - 4	TBD	EC	1
15.A.1	Continue communication and coordination with the Bureau of Reclamation and maintain up-to-date Inundation maps.	FD/MU/ GIS	1-5	GF	EC	3
15.A.2	Maintain Emergency Operations Center (EOC) for coordination of information and emergency response, with annual exercises simulating disaster response. Funding is available.	FD/SS	1-5	GF/DHS	EC	1
16.A.1	Monitor the situations and develop a plan when and if the probability of volcanic activity increases to a level of significance.	ALL	1 - 5	GF	EC	1

1

Lead

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Time Line

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Funding

- GF - General Fund
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- HMGP - Federal Hazard Mitigation Grant Program
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Cost

- EC - Existing Cost
- TBD - To Be Determined

Priority

- 1 - Highest Priority
- 2 - Medium Priority
- 3 - Lowest Priority



9.0 PLAN MAINTENANCE

9.1 Monitoring, Evaluating, and Updating the Plan

The Hazard Mitigation Plan is a living document that reflects the City's ongoing hazard mitigation activities. The process of monitoring, evaluating, and updating the Plan will be critical to the effectiveness of hazard mitigation.

The City's Emergency Services Coordinator in the City's Fire Department will be responsible for maintaining, evaluating, and updating the Plan. The City's Hazard Mitigation Project Team (HMPT) will play a crucial role in providing direction, input, and guidance. The Emergency Services Coordinator will lead the HMPT and will review and recommend for approval any Plan updates proposed by the HMPT. The Plan will be reviewed at least every two years and updated at least every five years.

Recommendation for Plan revisions will be based on the following criteria:

- ▶ Changes in federal or state laws
- ▶ Accomplishment of Actions, Objectives and Goals
- ▶ Advances in knowledge or understanding of hazards.
- ▶ Additional hazard events, including federally declared disasters.
- ▶ Changes in the City's risk to the identified and/or additional hazards
- ▶ Performance of mitigation projects during hazard events.

The HMPT will convene annually to review the progress made towards the Plan's goals and objectives. The HMPT will review each goal and objective to determine their relevance to changing situations in the City, as well as changes in state or federal policy and laws to ensure that the Plan is addressing current and expected conditions. The HMPT will also review the risk assessment section of the Plan to determine if this information should be updated or modified. The parties responsible for the various implementation actions will report on the status of their projects and will include which implementation processes worked well, any difficulties encountered, how coordination efforts were proceeding, and which strategies should be revised.

9.2 Implementation through Existing Programs

The City of Redding currently utilizes comprehensive land use planning, capital improvements planning, building codes and fire codes to guide and regulate development. After the City officially adopts the Plan, these existing mechanisms will have hazard mitigation strategies integrated into them. The Emergency Services Coordinator will ensure periodic reviews of the City's comprehensive plans and land use policies are conducted, analyze any Plan amendments, and provide technical assistance to incorporate hazard mitigation strategies.

The Building Division is responsible for administering the building codes in the City. After adoption of the Hazard Mitigation Plan, they will continue to work with the State Building Code Office to ensure that the City adopts, and is enforcing, the minimum standards established in the new Building Code. This is to make sure that life/safety criteria are met for new construction. The capital improvement planning that occurs in the future will also contribute to the goals in the Hazard Mitigation Plan. Within two years of the formal adoption of the Hazard Mitigation Plan, the mitigation strategy will be incorporated into existing planning mechanisms, whenever feasible.

9.3 Continued Public Involvement

The City of Redding is dedicated to involving the public directly in the continual reshaping and updating of the Hazard Mitigation Plan. The HMPT members will be responsible for the annual review and update of the Plan. The annual review will incorporate at least one public workshop to allow public involvement, input, and feedback about the Plan.

Copies of the Plan will be kept at the County of Shasta Library, at the Fire Prevention Office, at the Police Station, and on the City's website. The HMPT will be responsible for publicizing the location of these copies at least 30 days prior to the annual meeting to allow adequate time for the public to review and provide input. Public input will be included on the agenda of each annual meeting.



APPENDIX 1 - CRITICAL FACILITIES

Infrastructure Type	Facility Name
Airport	Benton Airpark
	Redding Municipal Airport
Bridge	Bonnyview Road
	Cypress Street Eastbound
	Cypress Street Westbound
	Diestlehorst
	Keswick Dam
	Lake Redding
	North Market Street
	North Street
	River Trail Ribbon Bridge
	Sewer Suspension
	Sundial Bridge
Turtle Bay	
UPRR	
Bus Barn	RABA
Corp Yard	CalTrans Corp Yard
	Redding Corp Yard
Electric	Shasta County Corp Yard
	Airport 115KV
	Airport Substation
	Beltline Substation
	Canby Substation
	College View Substation
	East Redding Substation
	Eureka Way Substation
	Moore Road Substation
	Oregon Substation
Redding Power	

Infrastructure Type	Facility Name
Electric (cont.)	Substation
	Substation
	Substation
	Sulphur Creek Substation
	Texas Springs Substation
	Waldon Substation
	CDF Headquarters
Fire	CDF, US Forest Service
	Fire Station #1
	Fire Station #2
	Fire Station #3
	Fire Station #4
	Fire Station #5
	Fire Station #6
Government Offices	Fire Station #7
	CalTrans District Office
	Redding City Hall
	Shascom
	Shasta County Administration Building
	Shasta County Court House
	Shasta County Jail
Hospital	Mercy Medical Center
	Shasta Regional Center
Intermodal	RABA
Police	CHP Aircraft
	CHP Dispatch
	CHP Headquarters
	Redding Police Station
	Shasta County Sheriff

Infrastructure Type	Facility Name
Shelter	Alta Mesa School
	Bonnyview School
	Boulder Creek School
	Buckeye Elementary School
	Buckeye Middle School
	Columbia Elementary School
	Cypress School
	Enterprise High School
	Foothill High School
	Grant Elementary School
	Juniper Academy
	Lassen View School
	Manzanita School
	Mistletoe Elementary School
	Mountain View Middle School
	Pacheco Elementary School
	Redding School District Office
	Sequoia Middle School
	Shasta College
Shasta High School	
Shasta Learning Center	
Shasta Meadows	
Sycamore School	
Turtle Bay Elementary	
Wastewater	Abernathy Lift Station
	Auditorium Lift Station
	Churn Creek Lift Station
	Clear Creek Sewer Treatment



Infrastructure Type	Facility Name
Wastewater (cont.)	Hartnell Lift Station
	La Crescenta Lift Station
	Lift Station #2
	Lift Station #3
	Lift Station #5
	Locust Lift Station
	Mary Street Lift Station
	North Market Street Lift Station
	Remington Lift Station
	River Bend Lift Station
	Stillwater Sewer Treatment
	Sunnyhill Lift Station
	Tierra Oaks Lift Station
	Westside Lift Station
Water	Bella Vista Water
	Bella Vista Water
	Bella Vista Water
	Bonnyview
	Buckeye Tank #1
	Buckeye Tank #2
	Buckeye Water Treatment
	Cascade Reservoir
	Cascade Well #1
	Cascade Well #2 (Abandoned)
	Cascade Well #3
	Cascade Well #5
	Cascade Well #6
	Cascade Well #8
	Cascade Well #9
	City of Redding Water Treatment Plant
	El Reno

Infrastructure Type	Facility Name
Water (cont.)	Enterprise Tank #1
	Enterprise Tank #2
	Enterprise Well #1 (Abandoned)
	Enterprise Well #2 (Abandoned)
	Enterprise Well #3 and #3A
	Enterprise Well #4 (Abandoned)
	Enterprise Well #5 (Abandoned)
	Enterprise Well #6 and #6A
	Enterprise Well #7
	Enterprise Well #8
	Enterprise Well #9
	Enterprise Well #10
	Enterprise Well #11
	Enterprise Well #12
	Enterprise Well #13
	Foothill Tank #1
	Foothill Tank #2
	Hill 900 #1
	Hill 900 #2
	Mercy
	Pump House #1
	Pump House #2
	Pump House #3
	Pump House #4
	Pump House #5
	Redding Ranchettes Reservoir
	Westwood Reservoir
	Westwood Well #1
	Westwood Well #2

Single Jurisdiction, Local Hazard Mitigation Plan (LHMP) & Multi-Jurisdictional, LHMP Review and Approval Status

Single/Lead Jurisdiction: City of Redding	Title of MJP Plan:	Date of Plan: July 2005
Local Point of Contact: Bruce Becker	Address: 777 Cypress Avenue, Redding, CA 96001 P.O. Box 496071, Redding, CA 96049	
Title: Deputy Chief/Fire Marshal		
Agency: City of Redding		
Phone Number: (530) 225-4575	E-Mail: bbecker@ci.redding.ca.us	

State Reviewer: Dennis Babson	Title: Reviewer	Date: August 31, 2005
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FEMA Reviewer: Byron Baldwin	Title: Hazard Mitigation Planner	Date: September 29, 2005
Date Received in FEMA Region [Insert #]		
Plan Not Approved		
Plan Approved	September 30, 2005	
Date Approved		

List single jurisdiction or, If MJP, list Participating Jurisdictions, including the "Lead Jurisdiction":	NFIP Status*			
	Y	N	N/A	CRS Class
1. City of Redding	Y			6
2.				
3.				
4. [ATTACH PAGE(S) WITH ADDITIONAL JURISDICTIONS]				

* Notes: Y = Participating N = Not Participating N/A = Not Mapped

LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted.

Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

SCORING SYSTEM - Please check one of the following for each requirement.

N – Needs Improvement: The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

S – Satisfactory: The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Prerequisite(s) (Check Applicable Box)	NOT MET	MET
Adoption by the Local Governing Body: §201.6(c)(5) OR		X
Multi-Jurisdictional Plan Adoption: §201.6(c)(5) AND	n/a	
Multi-Jurisdictional Planning Participation: §201.6(a)(3)	n/a	

Planning Process	N *	S
Documentation of the Planning Process: §201.6(b) and §201.6(c)(1)		X
Local Capabilities Assessment §201.4(c)(ii) and §201.6(c)(1)**		X

Risk Assessment	N *	S
Identifying Hazards: §201.6(c)(2)(i)		X
Profiling Hazards: §201.6(c)(2)(i)		X
Assessing Vulnerability: Overview: §201.6(c)(2)(ii)		X
Assessing Vulnerability: Identifying Structures: §201.6(c)(2)(ii)(A)		X
Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)		X
Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)		X
Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii)	n/a	

Mitigation Strategy

Local Hazard Mitigation Goals: §201.6(c)(3)(i)
 Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)
 Implementation of Mitigation Actions: §201.6(c)(3)(iii)
 Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)

N *	S
	X
	X
	X
n/a	

Plan Maintenance Process

Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(i)
 Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)
 Continued Public Involvement: §201.6(c)(4)(iii)

N *	S
	X
	X
	X

Additional State Requirements**

See **Planning Process**, Local Capabilities Assessment
 Insert State Requirement
 Insert State Requirement

N *	S
	X

STATE OES REVIEW STATUS OF THE LHMP:

STATE OES REVIEW COMPLETED on DATE: 08/31/2005

FORWARDED TO FEMA FOR REVIEW/APPROVAL DATE: _____

FEMA REVIEW STATUS OF THE LHMP:

FEMA REVIEW COMPLETE, PLAN RETURNED DATE: _____

FEMA REVIEW COMPLETE, PLAN APPROVED DATE: 9/30/05

X

*** See Reviewer's Comments**

**States that have additional requirements can add them in the appropriate sections of the *Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

FEMA/OES LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK FOR CA LOCAL GOVERNMENTS IN FEMA REGION (IX)
PREREQUISITE(S)

Adoption by the Local Governing Body

Requirement §201.6(c)(5): [The local hazard mitigation plan *shall* include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Has the local governing body adopted the plan?	Yes	The plan was adopted on July 19, 2005		X
B. Is supporting documentation, such as a resolution, included?	Section 3.3, p. 5	A copy of the Resolution of Adoption is located in the Introduction Section behind page 4.		X
SUMMARY SCORE				X

Multi-Jurisdictional Plan Adoption

Requirement §201.6(c)(5): For multi-jurisdictional plans, each jurisdiction requesting approval of the plan *must* document that it has been formally adopted.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the plan indicate the specific jurisdictions represented in the plan?	N/A	N/A		
B. For each jurisdiction, has the local governing body adopted the plan?	N/A			
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?	N/A			
SUMMARY SCORE				

Multi-Jurisdictional Planning Participation

Requirement §201.6(a)(3): Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the plan describe how each jurisdiction participated in the plan's development?	N/A			
SUMMARY SCORE				

FEMA/OES LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK FOR CA LOCAL GOVERNMENTS IN FEMA REGION (IX)

PLANNING PROCESS: §201.6(b): *An open public involvement process is essential to the development of an effective plan.*

Documentation of the Planning Process

Requirement §201.6(b): *In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:*

- (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
- (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
- (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*

Requirement §201.6(c)(1): *[The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a narrative description of the process followed to prepare the plan?	Section 5.2, p. 9	The plan does a good job of listing the requirements (Table 5-1 page 8) and follows with the Plan Development Section 5.2		X
B. Does the plan indicate who was involved in the planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)	Section 5.2, p. 9	Section 5.2 Plan Development identifies who led the project team and Table 5-2 lists the members.		X
C. Does the plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)	Section 5.3, p. 10	Section 5.3 Community Participation addresses how the public was notified and invited to participate in the plan development.		X
D. Was there an opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?	Section 5.2, p. 9	Section 5.2 Plan Development lists others that were invited to be a part of the plan development (i.e., Red Cross, County Public Health, County Office of Emergency Services, etc.)		X
E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	Section 8.2, p. 67	Section 8.2 and Table 8-2 provide a narrative and list of existing ordinances, codes and plans that were reviewed.		X
SUMMARY SCORE				X

FEMA/OES LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK FOR CA LOCAL GOVERNMENTS IN FEMA REGION (IX)

Local Capabilities Assessment (State OES Requested Information)

Requirement §201.4(c)(3)(ii): – *Of the Federal Register Interim Final Rule 44 CFR Parts 201 and 206 states, “[The State mitigation strategy shall include] a general description and analysis of the effectiveness of local mitigation policies, programs, and capabilities.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a description of the human, technical and financial resources available within this jurisdiction to engage in a mitigation planning process and to develop a local hazard mitigation plan?	Section 8.2, Table 8-3, p. 69	<i>Note: This information is required to complete the State Hazard Mitigation Plan and must be covered. However, a “Needs Improvement” score on this requirement will not preclude the plan from being recommended by OES or approved by FEMA.</i>		X
B. Does the plan list local mitigation funding sources (taxes, fees, assessments or fines) which affect or promote mitigation within the reporting jurisdiction?	Section 8.2, Table 8-4, p. 70	<i>Note: This information is required to complete the State Hazard Mitigation Plan and must be covered. However, a “Needs Improvement” score on this requirement will not preclude the plan from being recommended by OES or approved by FEMA.</i>		X
C. Does the plan list local ordinances which affect or promote disaster mitigation, preparedness, response or recovery within the reporting jurisdiction?	Section 8.2, Table 8-2, p. 68	<i>Note: This information is required to complete the State Hazard Mitigation Plan and must be covered. However, a “Needs Improvement” score on this requirement will not preclude the plan from being recommended by OES or approved by FEMA.</i>		X
D. Does the plan describe the details of in-progress, ongoing or completed mitigation projects and programs within the reporting jurisdiction?	Section 8.2, Table 8-5, p. 70	<i>Note: This information is required to complete the State Hazard Mitigation Plan and must be covered. However, a “Needs Improvement” score on this requirement will not preclude the plan from being recommended by OES or approved by FEMA.</i>		X
SUMMARY SCORE				X

RISK ASSESSMENT: §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

Identifying Hazards - §201.6(c)(2)(i): *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the jurisdiction.*

Element	Location in the Plan	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include a description of the types of all natural hazards that affect the jurisdiction? If the hazard identification omits (without explanation) any hazards commonly recognized as threats to the jurisdiction, this part of the plan cannot receive a Satisfactory score.	Section 7.2, pp. 20 - 21	Consult with the State Hazard Mitigation Officer to identify applicable hazards that may occur in the planning area. Section 7.2 and Table 7-2 address each type of hazard and identify those applicable to the jurisdiction.		X
SUMMARY SCORE				X

FEMA/OES LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK FOR CA LOCAL GOVERNMENTS IN FEMA REGION (IX)

Profiling Hazards

Requirement §201.6(c)(2)(i): [The risk assessment shall include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the risk assessment identify the location (i.e., geographic area affected) of each natural hazard addressed in the plan?	Sections 7.4.1 – 7.5.7, pp 23 – 66, Figures 1 - 13	Each hazard is addressed with narratives and/or maps identify the geographic locations		X
B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?	Sections 7.4.1 – 7.5.7, pp 23 – 66, Figures 1 – 13	This is covered for each hazard individually in the history narratives and the Vulnerability section. Recommended Revision: At the next plan update, include a table/chart showing the previous occurrences, magnitude of severity and probability of future events. Resources: 1. <i>Understanding Your Risks</i> (FEMA 386-2), Step 2. 2. HAZUS-MH at www.fema.gov/HAZUS/ 3. Firewise at www.firewise.org .		X
C. Does the plan provide information on previous occurrences of each hazard addressed in the plan?	Sections 7.4.1 – 7.5.7, pp 23 – 66, Figures 1 – 13	History sections are included for each applicable hazard. Recommended Revision: See B above.		X
D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?	Sections 7.4.1 – 7.5.7, pp 23 – 66, Figures 1 - 13	This is addressed in each hazard section under Future Events. Recommended Revision: See B above.		X
SUMMARY SCORE				X

Assessing Vulnerability: Overview

Requirement §201.6(c)(2)(ii): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?	Section 7.2, Table 7-2, p. 21	Vulnerability sections are included for each applicable hazard.		X
B. Does the plan address the impact of each hazard on the jurisdiction?	Sections 7.4.1 – 7.5.7, pp. 23 - 66	The impact is addressed by dollar losses for each type of hazard in Table 7-3 page 22, with additional support located toward the end of each hazard section.		X
SUMMARY SCORE				X

Assessing Vulnerability: Identifying Structures

Requirement §201.6(c)(2)(ii)(A): *The plan should describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area*

			N	S
<p>A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?</p>	<p>Appendix 1, pp. 96 – 97, Figure 4, Table 7-3 Section 7.4.1.6, p. 26 Section 7.4.2.6, p. 32 Section 7.4.3.5, p. 38 Section 7.4.4.6, p. 40</p>	<p>Note: <i>This information must be included, however a “Needs Improvement” score on this requirement will not preclude the plan from being approved by FEMA.</i></p> <p>Types and numbers of existing buildings are listed in Table 7-3 page 22. Critical facilities and infrastructures are listed in Appendix 1 page 96-97. These are located on maps</p>		<p>X</p>
<p>B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?</p>	<p>Appendix 1, pp. 96 – 97, Figure 4, Table 7-3 Section 7.4.1.6, p. 26 Section 7.4.2.6, p. 32 Section 7.4.3.5, p. 38 Section 7.4.4.6, p. 40</p>	<p>Note: <i>This information must be included, however a “Needs Improvement” score on this requirement will not preclude the plan from being approved by FEMA.</i></p> <p>The plan is weak on this requirement. However, Table 8-8 Mitigation Strategy page 77, Goal 1 addresses future development.</p> <p>Recommended Revision: At next plan update, include in your narratives and Table/s reference to the number of future buildings and infrastructures,</p> <p>Resources:</p> <ol style="list-style-type: none"> 1. <i>Understanding Your Risks</i> (FEMA 386-2), Step 3, Worksheets #3a and #3b Inventory Assists. 2. HAZUS-MH at www.fema.gov/HAZUS/ 3. Firewise at www.firewise.org. 		<p>X</p>
<p>SUMMARY SCORE</p>				<p>X</p>

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Assessing Vulnerability: Estimating Potential Losses

Requirement §201.6(c)(2)(ii)(B): *[The plan should describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate*

Element	Location in the Plan	Reviewer's Comments	SCORE	
			N	S
A. Does the plan estimate potential dollar losses to vulnerable structures?	Section 7.3, Table 7-3, p. 22	Note: This information must be included, however a "Needs Improvement" score on this requirement will not preclude the plan from being approved by FEMA. Estimated dollars losses are covered on Table 7-8 page 22.		X
B. Does the plan describe the methodology used to prepare the estimate?	Section 7.3, p. 22	Note: This information must be included, however a "Needs Improvement" score on this requirement will not preclude the plan from being approved by FEMA. The methodology use is identified as the Geographic Information System (GIS).		X
SUMMARY SCORE				X

Assessing Vulnerability: Analyzing Development Trends

Requirement §201.6(c)(2)(ii)(C): *[The plan should describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe land uses and development trends?	Sections 6.7 & 6.8, p. 16	Note: This information must be included, however a "Needs Improvement" score on this requirement will not preclude the plan from being approved by FEMA. Land uses and development trends are generalized in Sections 6.7 and 6.8 pages 16-19. However, the plan does not address future anticipated changes. Recommended Revision; In the next plan update, include narratives, and/or Tables/land use maps that address anticipated future changes.		X
SUMMARY SCORE				X

Multi-Jurisdictional Risk Assessment - Requirement §201.6(c)(2)(iii): *For multi-jurisdictional plans, the risk assessment must assess each jurisdiction's risks where they vary from the risks facing the entire planning area.*

Location in the	SCORE
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FEMA/OES LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK FOR CA LOCAL GOVERNMENTS IN FEMA REGION (IX)

Element	Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	N/A	N/A		
SUMMARY SCORE				

MITIGATION STRATEGY: §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

Local Hazard Mitigation Goals

Requirement §201.6(c)(3)(i): *[The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A Does the plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards? (GOALS are long-term; represent what the community wants to achieve, such as “eliminate flood damage”; and are based on the risk assessment findings.)	Section 8.3, Table 8-7, p. 76	At the end of the narratives on each applicable hazard the goal/s are listed with objectives and actions to accomplish the goal/s. Table 8-7 pages 76 lists these goals. Table 8-8 pages 77-84 combines the goals, actions and objectives.		X
SUMMARY SCORE				X

Identification and Analysis of Mitigation Actions

Requirement §201.6(c)(3)(ii): *[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.*

Element	Location in the Plan	Reviewer's Comments	SCORE	
			N	S
A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?	Section 8.3, Table 8-8, pp. 77 – 84	See response to A above.		X
B Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?	Section 8.3, Table 8-8, p. 77, Goal 1	Goal 1 Table 8-8 page 77 Promote disaster resistance for existing and future development.		X
C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?	Section 8.3, Table 8-8, p. 77, Goal 1	Goal 1 Table 8-8 page 77 Promote disaster resistance for existing and future development.		X

SUMMARY SCORE

X

Implementation of Mitigation Actions

Requirement: §201.6(c)(3)(iii): *[The mitigation strategy section shall include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.*

Element	Location in the Plan	Reviewer's Comments	SCORE	
			N	S
A. Does the mitigation strategy include how the actions are prioritized ? (For example, is there a discussion of the process and criteria used?)	Section 8.3.1, Table 8-9, pp. 85 – 94	The referenced section and table addresses the method and priority rating for each action item.		X
B. Does the mitigation strategy address how the actions will be implemented and administered ? (For example, does it identify the responsible department, existing and potential resources, and timeframe?)	Section 8.3.1, Table 8-9, pp. 85 – 94	The referenced section and table identifies the Lead Agency responsible for implementing and administering the action.		X
C. Does the prioritization process include an emphasis on the use of a cost-benefit review (see page 3-36 of <i>Multi-Hazard Mitigation Planning Guidance</i>) to maximize benefits?	Section 8.3.1, Table 8-9, pp. 85 – 94	The last sentence under Section 8.3.1 page 85 states, "The priorities were based on a review by the LHMP Team, according to their greatest cost benefit, ratio, their expected present value, and their internal rate of return."		X
SUMMARY SCORE				X

Multi-Jurisdictional Mitigation Actions

Requirement §201.6(c)(3)(iv): *For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A Does the plan include at least one identifiable action item for each jurisdiction requesting FEMA approval of the plan?	N/A	N/A		
SUMMARY SCORE				

PLAN MAINTENANCE PROCESS

FEMA/OES LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK FOR CA LOCAL GOVERNMENTS IN FEMA REGION (IX)

Monitoring, Evaluating, and Updating the Plan

Requirement §201.6(c)(4)(i): [The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

Element	Location in the Plan	Reviewer's Comments	SCORE	
			N	S
A. Does the plan describe the method and schedule for monitoring the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?)	Section 9.1, p. 95	Section 9.1 page 95 calls for annual meetings by the HMPT to review the progress. This section also states that identifies what major departments and individuals that will be responsible for monitoring and coordination.		X
B. Does the plan describe the method and schedule for evaluating the plan? (For example, does it identify the party responsible for evaluating the plan and include the criteria used to evaluate the plan?)	Section 9.1, p. 95	The City's Fire Department will be responsible for maintaining, evaluating, and updating the Plan. Bullets on page 95 identify the criteria for Plan revisions.		X
C. Does the plan describe the method and schedule for updating the plan within the five-year cycle?	Section 9.1, p. 95	The plan calls for annual reviews of progress, reviewed for changes every two years and updated every five years.		X
SUMMARY SCORE				X

Incorporation into Existing Planning Mechanisms

Requirement §201.6(c)(4)(ii): [The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

			N	S
A. Does the plan identify other local planning mechanisms available for incorporating the requirements of the mitigation plan?	Section 9.2, p. 95	Section 9.2 page 95 identifies local planning mechanisms (i.e., land use planning, capital improvements planning, building codes and fire codes) that will be updated to incorporate the Plan requirements.		X
B. Does the plan include a process by which the local government will incorporate the requirements in other plans, when appropriate?	Section 9.2, p. 95	See A above.		X
SUMMARY SCORE				X

Continued Public Involvement

Requirement §201.6(c)(4)(iii): [The plan maintenance process **shall** include a] discussion on how the community will continue public participation in the plan maintenance process.

N	S

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<p>A. Does the plan explain how continued public participation will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)</p>	<p>Section 9.3, p. 95</p>	<p>Section 9.3 page 95 addresses how the public will continue to be informed and involved.</p>		<p>X</p>
<p>SUMMARY SCORE</p>				<p>X</p>