

A. **Agenda**

Documents:

[February 6, 2013 Agenda \(PDF\).pdf](#)

B. **Supporting Documents**

Documents:

[Plan Update TOC \(PDF\).pdf](#)

[Progress Report Fillable Form \(PDF\).pdf](#)

**Agenda
Humboldt County
Hazard Mitigation Plan-Update
1st Steering Committee (SC) Meeting**

Wednesday, February 6, 2013 -- 1:00 PM to 3:00 PM
Humboldt County Planning and Building Conference Room
Clark Complex 3015 H St, Eureka CA 95501

Objectives

- Review purposes for update
 - Organize Steering Committee
 - Review/Revise Steering Committee Ground Rules
 - Plan Review
 - Evaluate Action Plan Progress
 - Develop Public Involvement Strategy
-

Welcome and Introductions **Cybelle Immitt** **1:00 PM**

Public Works

- Group Introductions
- Review Agenda

Why are we here? A refresher **Rob Flaner** **1:10 PM**
Tetra Tech, Inc.

- The Disaster Mitigation Act of 2000 (DMA)
- The Plan update Scope of Work
- The time-line
- The planning partners

The Steering Committee's Role **Rob Flaner** **1:45 PM**

- SC Purpose
- SC Expectations
- SC Organization
- SC Ground Rules
 - ✓ Consensus vs. Voting
 - ✓ Leadership
 - ✓ Attendance
- Meeting dates/times

Plan Review **Rob Flaner** **2:15 PM**

- We will need to review the original Plan
- We also must be consistent with the CA State Hazard Mitigation Plan
- Review both of these plans
- Identify changes/enhancements to be included in the Humboldt HMP

Public Involvement Strategy **Rob Flaner** **2:30 PM**

- The SC will need to determine a Public Involvement strategy
- This strategy will be deployed in 2 phases
 - Early in the plan development-gauge the public's perception of Risk
 - Prior to adoption-to allow public comment on the draft plan
- What are the outreach capabilities within the planning area
 - Websites
 - Questionnaires
 - Public meeting
 - Press/media

Action Items for Next Meeting **Rob Flaner** **2:55 PM**

Adjourn **3:00 PM**



Humboldt County

Hazard Mitigation Plan Update

Volume 1: Planning-Area-Wide Elements

DRAFT

January 2013

Humboldt County
HAZARD MITIGATION PLAN UPDATE
VOLUME 1: PLANNING-AREA-WIDE ELEMENTS

DRAFT

JANUARY 2013

Prepared for:



Humboldt County
Office of Natural Resources Planning
520 E Street
Eureka, CA 95501

Prepared by:



TETRA TECH

complex world | **CLEAR SOLUTIONS™**

90 South Blackwood Avenue
Eagle, ID 83616

Project #103S2497

Humboldt County
Hazard Mitigation Plan Update;
Volume 1—Planning-Area-Wide Elements

TABLE OF CONTENTS

Executive Summary.....

PART 1 — THE PLANNING PROCESS

Chapter 1. Introduction to the Planning Process.....Error! Bookmark not defined.

- 1.1 Why Prepare This Plan?.....
 - 1.1.1 The Big Picture
 - 1.1.2 Local Concerns
 - 1.1.3 Purposes for Planning
- 1.2 Who Will Benefit From This Plan?.....
- 1.3 How to Use This Plan

Chapter 2. Plan Update—What has Changed.....

- 2.1 The Previous Plan
- 2.2 Why Update?.....
- 2.3 The Updated Plan—What Is Different?

Chapter 3. Plan Methodology

- 3.1 Grant Funding
- 3.2 Formation of the Planning Team.....
- 3.3 Establishment of the Planning Partnership.....
- 3.4 Defining the Planning Area.....
- 3.5 The Steering Committee
- 3.6 Coordination with Other Agencies.....
- 3.7 Review of Existing Programs.....
- 3.8 Public Involvement
- 3.8.1 Strategy
- 3.8.2 Public Involvement Results.....
- 3.9 Plan Development Chronology/Milestones

Chapter 4. Guiding Principle, Goals and Objectives

- 4.1 Guiding Principle
- 4.2 Goals
- 4.3 Objectives.....

PART 2 — RISK ASSESSMENT

Chapter 5. Identified Hazards of Concern and Risk Assessment Methodology

- 5.1 Identified Hazards of Concern
- 5.2 Climate Change.....
- 5.3 Methodology
- 5.4 Risk Assessment Tools
- 5.4.1 Dam Failure, Earthquake and Flood—HAZUS-MH
- 5.4.2 Landslide, Severe Weather, Volcano and Wildfire.....
- 5.4.3 Tsunami—Modified HAZUS-MH.....
- 5.4.4 Drought and Avalanche.....
- 5.4.5 Limitations

Chapter 6. Humboldt County Profile.....

6.1 Jurisdictions and Attractions

6.2 Historical Overview

6.3 Major Past Hazard Events

6.4 Physical Setting.....

 6.4.1 Geology.....

 6.4.2 Soils.....

 6.4.3 Seismic Features

 6.4.4 Climate.....

6.5 Critical Facilities and Infrastructure.....

6.6 Demographics

 6.6.1 Population Characteristics.....

 6.6.2 Income.....

 6.6.3 Age Distribution.....

 6.6.4 Race, Ethnicity and Language.....

 6.6.5 Disabled Populations.....

6.7 Economy

 6.7.1 Industry, Businesses and Institutions

 6.7.2 Employment Trends and Occupations

6.8 Future Trends in Development.....

6.9 Laws and Ordinances

 6.9.1 Federal.....

 6.9.2 State.....

 6.9.3 Cities and County.....

Chapter 7. Dam Failure.....

7.1 General Background.....

 7.1.1 Causes of Dam Failure

 7.1.2 Regulatory Oversight

7.2 Hazard Profile

 7.2.1 Past Events

 7.2.2 Location

 7.2.3 Frequency.....

 7.2.4 Severity

 7.2.5 Warning Time

7.3 Secondary Hazards.....

7.4 Climate Change Impacts

7.5 Exposure.....

 7.5.1 Population

 7.5.2 Property.....

 7.5.3 Critical Facilities

 7.5.4 Environment.....

7.6 Vulnerability

 7.6.1 Population

 7.6.2 Property.....

 7.6.3 Critical Facilities

 7.6.4 Environment.....

7.7 Future Trends in Development.....

7.8 Scenario.....

7.9 Issues

Chapter 8. Drought.....

- 8.1 General Background.....
- 8.1.1 Drought in California.....
- 8.2 Hazard Profile.....
- 8.2.1 Past Events.....
- 8.2.2 Location.....
- 8.2.3 Frequency.....
- 8.2.4 Severity.....
- 8.2.5 Warning Time.....
- 8.3 Secondary Hazards.....
- 8.4 Climate Change Impacts.....
- 8.5 Exposure.....
- 8.6 Vulnerability.....
- 8.6.1 Population.....
- 8.6.2 Property.....
- 8.6.3 Critical Facilities.....
- 8.6.4 Environment.....
- 8.6.5 Economic Impact.....
- 8.7 Future Trends in Development.....
- 8.8 Scenario.....
- 8.9 Issues.....

Chapter 9. Earthquake.....

- 9.1 General Background.....
- 9.1.1 How Earthquakes Happen.....
- 9.1.2 Earthquake Classifications.....
- 9.1.3 Ground Motion.....
- 9.1.4 Effect of Soil Types.....
- 9.2 Hazard Profile.....
- 9.2.1 Past Events.....
- 9.2.2 Location.....
- 9.2.3 Frequency.....
- 9.2.4 Severity.....
- 9.2.5 Warning Time.....
- 9.3 Secondary Hazards.....
- 9.4 Climate Change Impacts.....
- 9.5 Exposure.....
- 9.5.1 Population.....
- 9.5.2 Property.....
- 9.5.3 Critical Facilities and Infrastructure.....
- 9.5.4 Environment.....
- 9.6 Vulnerability.....
- 9.6.1 Population.....
- 9.6.2 Property.....
- 9.6.3 Critical Facilities and Infrastructure.....
- 9.6.4 Environment.....
- 9.7 Future Trends in Development.....
- 9.8 Scenario.....
- 9.9 Issues.....

Chapter 10. Fish Losses.....

Chapter 11. Flood.....

11.1	General Background.....	
11.1.1	Measuring Floods and Floodplains	
11.1.2	Floodplain Ecosystems.....	
11.1.3	Effects of Human Activities.....	
11.1.4	Federal Flood Programs	
11.2	Hazard Profile	
11.2.1	Principal Flooding Sources	
11.2.2	Past Events	
11.2.3	Location	
11.2.4	Frequency.....	
11.2.5	Severity	
11.2.6	Warning Time	
11.3	Secondary Hazards.....	
11.4	Climate Change Impacts	
11.5	Exposure.....	
11.5.1	Population	
11.5.2	Property.....	
11.5.3	Critical Facilities and Infrastructure.....	
11.5.4	Environment.....	
11.6	Vulnerability	
11.6.1	Population	
11.6.2	Property.....	
11.6.3	Critical Facilities and Infrastructure.....	
11.6.4	Environment.....	
11.7	Future Trends	
11.8	Scenario.....	
11.9	Issues.....	
	Chapter 12. Landslide.....	
12.1	General Background.....	
12.2	Hazard Profile	
12.2.1	Past Events	
12.2.2	Location	
12.2.3	Frequency.....	
12.2.4	Severity	
12.2.5	Warning Time	
12.3	Secondary Hazards.....	
12.4	Climate Change Impacts	
12.5	Exposure.....	
12.5.1	Population	
12.5.2	Property.....	
12.5.3	Critical Facilities and Infrastructure.....	
12.5.4	Environment.....	
12.6	Vulnerability	
12.6.1	Population	
12.6.2	Property.....	
12.6.3	Critical Facilities and Infrastructure.....	
12.6.4	Environment.....	
12.7	Future Trends in Development.....	
12.8	Scenario.....	
12.9	Issues.....	

Chapter 13. Severe Weather.....

13.1 General Background.....
 13.1.1 Thunderstorms
 13.1.2 Damaging Winds.....
 13.1.3 Hail Storms
13.2 Hazard Profile
 13.2.1 Past Events
 13.2.2 Location
 13.2.3 Frequency.....
 13.2.4 Severity
 13.2.5 Warning Time
13.3 Secondary Hazards.....
13.4 Climate Change Impacts
13.5 Exposure.....
 13.5.1 Population
 13.5.2 Property.....
 13.5.3 Critical Facilities and Infrastructure.....
 13.5.4 Environment.....
13.6 Vulnerability
 13.6.1 Population
 13.6.2 Property.....
 13.6.3 Critical Facilities and Infrastructure.....
 13.6.4 Environment.....
13.7 Future Trends in Development.....
13.8 Scenario.....
13.9 Issues.....

Chapter 14. Tsunami.....

14.1 General Background.....
14.2 Hazard Profile
 14.2.1 Past Events
 14.2.2 Location
 14.2.3 Frequency.....
 14.2.4 Severity
 14.2.5 Warning Time
14.3 Secondary Hazards.....
14.4 Climate Change Impacts
14.5 Exposure.....
 14.5.1 Population
 14.5.2 Property.....
 14.5.3 Critical Facilities and Infrastructure.....
 14.5.4 Environment.....
14.6 Vulnerability
 14.6.1 Population
 14.6.2 Property.....
 14.6.3 Critical Facilities and Infrastructure.....
 14.6.4 Environment.....
14.7 Future Trends in Development.....
14.8 Scenario.....
14.9 Issues.....

Chapter 15. Wildfire.....

- 15.1 General Background.....
- 15.2 Hazard Profile
- 15.2.1 Past Events
- 15.2.2 Location
- 15.2.3 Frequency.....
- 15.2.4 Severity
- 15.2.5 Warning Time
- 15.3 Secondary Hazards.....
- 15.4 Climate Change Impacts
- 15.5 Exposure.....
- 15.5.1 Population
- 15.5.2 Property.....
- 15.5.3 Critical Facilities and Infrastructure.....
- 15.5.4 Environment.....
- 15.6 Vulnerability
- 15.6.1 Population
- 15.6.2 Property.....
- 15.6.3 Critical Facilities and Infrastructure.....
- 15.7 Future Trends in Development.....
- 15.8 Scenario.....
- 15.9 Issues

Chapter 16. Planning Area Risk Ranking

- 16.1 Probability of Occurrence
- 16.2 Impact.....
- 16.3 Risk Rating and Ranking

PART 3 — MITIGATION STRATEGY

Chapter 17. Mitigation Alternatives

Chapter 18. Area-Wide Mitigation Initiatives and Implementation.....

- 18.1 Selected County-Wide Mitigation Initiatives.....
- 18.2 Benefit/Cost review.....
- 18.3 County-Wide Action Plan Prioritization.....
- 18.4 Plan Adoption.....
- 18.5 Plan Maintenance Strategy.....
- 18.5.1 Plan Implementation
- 18.5.2 Steering Committee.....
- 18.5.3 Annual Progress Report
- 18.5.4 Plan Update.....
- 18.5.5 Continuing Public Involvement
- 18.5.6 Incorporation into Other Planning Mechanisms

Appendices

- A. Acronyms and Definitions
- B. Mitigation Initiatives From 2007 Humboldt County Operational Area Plan
- C. Public Outreach
- D. Example Progress Report
- E. Plan Adoption Resolutions from Planning Partners

Humboldt Operational Area Hazard Mitigation Plan 5-Year Progress Report (Template)

Reporting Period: January 2008 to January 2013

Background: Humboldt County and its planning partners have developed its All Hazards Mitigation Plan to provide its vision for reducing its risk from all hazards by identifying resources, information, and strategies for risk reduction. Responding to programmatic requirements defined under the Disaster Mitigation act of 2000. This act required state and local governments to develop hazard mitigation plans as a condition for federal grant assistance. Over a 15-month period from July 2006 to October 2007, the partnership organized resources, assessed the risks to natural hazards within the planning area, developed planning goals and objectives, reviewed mitigation alternatives, and developed an action plan to address the probable impacts from natural hazards within The Humboldt Operational Area. By completing this process, the Partnership has maintained its compliance with the parameters of the Disaster Mitigation Act, and thus leveraged hazard mitigation grant funding opportunities afforded under the Robert T. Stafford Act. Copies of the plan are available to the public throughout the Humboldt County Public Library system and it can be viewed on-line:

<http://co.humboldt.ca.us/natural-resources/hazardmitigation/>

Summary Overview of the plan's progress

The performance period for the Humboldt Operational Area Hazard Mitigation Plan (HOAHMP) became effective on January 25, 2008, with the final approval of the plan by FEMA region IX. The initial performance period for this plan will be 5 years, with an anticipated update to the plan to occur in 2013. This progress report will cover the full 5-year performance period. As of this reporting period, the performance period for this plan is considered to be ___% complete. The HOAHMP has targeted 272 hazard mitigation initiatives to be pursued by the Planning Partnership during the initial performance period of this plan update. As of the reporting period the following overall progress can be reported:

- ___ out of 272 initiatives (___%) reported ongoing action towards completion.
- ___ out of 272 initiatives (___%) were reported as being complete as of this reporting period.
- ___ out of 272 initiatives (___%) reported no action taken as of this reporting period

Purpose: The purpose of this report is to provide the governing bodies of the planning partnership, Stakeholders and the citizens of the Humboldt Operational Area a progress report on the implementation of the action plan identified in the HOAHMP. This report has been prepared by the planning team and was reviewed and confirmed by the HOAHMP Steering Committee in accordance with section 7.1 of the plan. The Steering Committee reviewed and approved this progress report at their meeting held _____, 2013. The objective of this evaluation is to ensure that there is a continuing and responsive planning process that will keep the HOAHMP dynamic and responsive to the needs and capabilities of the planning partnership as well as providing the Steering Committee information on needs for improvements through the plan update process. This report will discuss the following:

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

Changes in Risk exposure within the Planning Area

The HOAHMP addressed the probable impact for the following natural hazard events within the planning area:

- Dam Failure
- Drought
- Earthquake
- Fish Losses
- Flood
- Landslide and other mass movements
- Severe Weather
- Tsunami
- Wildland Fire

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

Mitigation Success Stories

(Insert brief overview of mitigation accomplishments during the reporting period)

Review of the Action Plan

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

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

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

- Was any element of the initiative carried out during the reporting period?
- If no action was completed, why?
- Is the timeline for implementation for the initiative still appropriate?
- If the initiative was completed, does it need to be changes or removed from the action plan?

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
CITY OF ARCATA (A)				
A-1: Designate, prepare and announce Emergency Assembly Points throughout the City.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-2: Adopt a Long-term Capital Improvement Plan.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-3: Improve hillside stability in landslide-prone areas utilizing feasible approaches that provide the highest degree of benefit, for the least cost.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-4: Conduct an updated Dam Failure Flood Routing Analysis for City of Arcata Dam #2				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-5: Prepare a Post Disaster Recovery Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-6: Install Emergency water inter-ties between neighboring jurisdictions				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-7: Develop ring levees around at risk critical facilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-8: Perform seismic retrofits of critical facilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-9: Work with the NOAA to attain the certifications of Storm Ready and Tsunami Ready.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-10: Perform preventive maintenance of Jane's Creek and other drainage ways.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-11: Adopt International Building Code.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-12: Improve alternative communication capabilities throughout the City, including acquisition of and licensing for HAM radios, satellite telephones, mobile backup dispatch devices and other communication devices.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-13: Adopt an updated Emergency Response Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-14: Establish a warning system for Dam Failure				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-15: Update City land use code for seismic setbacks/structural requirements and hillside development standards				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-16: Promote the formation of Community Emergency Response Teams (CERTs) and Neighborhood and Business Emergency Services Teams (NESTS and BESTs) throughout Arcata				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
A-17: Update floodplain mapping throughout the City, including continued participation with the National Flood Insurance Program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-18: Maintain National Incident Management System, State Emergency Management System, and Incident Command System training for City staff.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-19: Support and participate in the Redwood Coast Tsunami Work Group and other hazard mitigation groups in the region.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-20: Obtain and distribute current information about local natural hazard risks and emergency preparedness, including creating and maintaining a hazard mitigation informational web page on the City of Arcata website.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-21: Raise flood prone areas adjacent to West End Rd. to an elevation that will not be inundated during flooding events.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-22: For emergency preparedness, implement offsite parking for corporation yard equipment.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
A-23: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
CITY OF BLUE LAKE (BL)				
BL-1: Adopt a Long-term Capital Improvements Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
BL-2: Prepare a Post Disaster Recovery Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
BL-3: Adopt International Building Code 2008				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
BL-4: Install Emergency water inter-ties between neighboring jurisdictions				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
BL-5: Support county-wide initiatives in the Humboldt Operational Area Hazard mitigation Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
BL-6: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
CITY OF EUREKA (E)				
E-1: Replace/retrofit Eureka Fire Main Station and Emergency Operations Center (same location) to provide seismic strengthening to maintain essential emergency services.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
E-2: Reconstruct Dock B to provide seismic strengthening to reduce risk of structural failure and sustain needed economic infrastructure.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-3: Construct Corporation Yard improvements to reduce risk of structural failure and increase efficiency and operations during natural disaster.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-4: Construct Eureka Municipal Airport improvements to provide for increased use, safety and security of airport during a natural disaster.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-5: Construct a Fire Manipulative Training Facility in a central location to train emergency responders.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-6: Construct Fire Station 3 and 4 improvements to increase capacity for emergency apparatus and equipment and personnel.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-7: Replace/retrofit/upgrade and cleanup fuel terminal facility to improve safety, minimize environmental impacts, and provide a more reliable fuel system.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-8: Construct Martin Slough Enhancement Project to reduce property and environmental damage caused by flooding.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-9: Construct Police Station Modifications to improve security and efficiency.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-10: Install, replace and repair or relocate Storm Drainage facilities to improve environmental protection of Humboldt Bay during severe weather events and flooding.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-11: Repair and replace Sewer Lift Station facilities to improve environmental protection of Humboldt Bay during severe weather events and flooding.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-12: Construct Martin Slough Sewer Interceptor to protect and improve efficiency, safety and reliability of wastewater collection and transport system.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-13: Construct Standby Emergency Power Generator to ensure wastewater treatment plant is operational during critical emergencies and disasters.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-14: Construct Extended Fuel Storage Facilities to provide adequate fuel storage at additional locations during periods of extended power outage.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-15: Construct Mad River Water Pipeline project to strengthen system and ensure safe and reliable provision of public water to citizens and emergency service agencies.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
E-16: Construct Water Reservoir Maintenance and Security Improvement Project for seismic strengthening and to improve security and safety for Eureka's emergency water supply				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-17: Implement Storm Water Management Plan to educate public about controlling/improving flooding events and water quality in the City.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-18: Create and maintain a hazard mitigation informational web page on the City's website.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-19: Support County wide initiatives to promote public education on the impacts of natural hazards and the risks they pose by emphasizing awareness, preparation, mitigation, response and recovery alternatives.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-20: Partner with Humboldt County Emergency Service office in disaster response and preparedness, including updates to the Emergency Operations Plan, a post disaster action plan, training and support.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-21: Enhance building codes and/or adopt International Building Code to improve and strengthen new construction to withstand the impacts of natural disasters and lessen the impact of that development on the environment.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
E-22: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
CITY OF FERNDALE (F)				
F-1: Designate, prepare and announce Emergency Assembly Points throughout the City.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-2: Adopt a long-term Capital Improvement Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-3: Improve hillside stability in landslide-prone by improving drainage and planting plants that protect soil and retaining walls where needed.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-4: Prepare a Post Disaster Recovery Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-5: Develop ring levees around at risk facilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-6: Perform Seismic retrofits of critical facilities, such as the public works facility and the Wastewater facility				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-7: Work with NOAA to attain the certificates of Storm Ready and Tsunami Ready				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-8: Perform Preventative Maintenance for Francis Creek				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
F-10: Establish redundant communication capabilities throughout the city.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-11: Adopt an updated Emergency Response Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-12: Update City Land Use Code for seismic setbacks/structural requirements and hillside development standards				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-13: Update floodplain mapping throughout the City, including continued participation with a national flood insurance program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-14: Maintain National Incident Management System and Incident Command System training for City staff				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-15: Obtain and distribute current information about local natural hazards risk and emergency preparedness including creating and maintaining current website information				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
F-16: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
CITY OF FORTUNA (FO)				
FO-1: Protect City's major water supply storage from landslides and earthquake damage. CIP Project #s 9124 & 9327.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-2: Localized Detention Basin @ Strongs Creek headwaters. CIP Project #9603				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-3: Localized Detention Basin @ Rohner Creek headwaters. CIP Project #9602				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-4: Construct flap gate valves at various locations throughout City to prevent backwater inundation from major creek channel high water conditions.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-5: Increase channel capacity through bank elevation improvements at localized regions of repetitive flooding incidents. CIP Project #9704				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-6: Vegetation clearing of existing drainage courses including ditches and creek channels. CIP Project 9709.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-7: Stabilize hillsides from mass landslide movements at or adjacent to street right-of-ways.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-8: Rohner Creek by-pass. CIP Project #9601				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
FO-9: Rohner Creek widening. CIP Project #9600				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-10: New 48" storm drain at Third St. @ Stockyard. CIP Project #9702.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-11: Detention Basin on Mill Creek. CIP Project #9804.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-12: Detention basin cleaning. CIP Project #9601.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-13: Dinsmore Drive flood control. CIP Project #9502.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-14: Elevate emergency generator @ water supply/treatment facility above 100 year flood elev.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-15: Strong's Creek by-pass @ US 101 box culvert to Riverwalk Detention Basin.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-16: Circle levee @ water supply/treatment facility above 100 year flood elev.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-17: Seismic retrofit of at-grade water storage tanks (250,000 & 1 million gallons).				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
FO-18: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
CITY OF RIO DELL (RD)				
RD-1: Chlorine Generation Equipment Replacement and Seismic Retrofit				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-2: Upgrade Pumps at Headworks				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-3: Improvements to Wastewater Collection System Mains, Laterals, and Manholes				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-4: Wastewater Lift Stations Maintenance and Upgrades				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-5: Install Stormproof Fuel Storage Tanks				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-6: Belleview Creek Crossing Repair				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-7: Painter Street to Highway 101 Drainage Ditch Repair				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
RD-8: Center Street to Painter Street Culvert Improvements				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-9: City Hall Seismic Retrofit				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-10: Fireman's Hall Seismic Retrofit				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-11: City Standby Power Generation Capabilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-12: Fire Sprinkler Installation at City Hall and Fireman's Hall				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-13: Construct Retaining Wall on Road to Dinsmore				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-14: Elevating Wastewater Plant				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-15: Designate, prepare and announce Emergency Assembly Points throughout the City.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-16: Adopt a Long-term Capital Improvement Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-17: Improve hillside stability in landslide-prone areas				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-18: Prepare a Post Disaster Recovery Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-19: Install Emergency water interties between neighboring jurisdictions				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-20: Work with the National Oceanic and Atmospheric Association to attain the certifications of Storm Ready and Tsunami Ready.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-21: Adopt International Building Code on January 1st, 2008				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-22: Improve alternative communication capabilities throughout the City, including acquisition of and licensing for HAM radios, satellite telephones, mobile backup dispatch devices and other communication devices.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-23: Adopt an updated Emergency Response Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-24: Update City land use code for seismic setbacks/structural requirements and hillside development standards				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
RD-25: Promote the formation of Community Emergency Response Teams (CERTs) and Neighborhood and Business Emergency Services Teams (NESTS and BESTs) throughout Rio Dell				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-26: Update floodplain mapping throughout the City, including continued participation with the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-27: Maintain National Incident Management System, State Emergency Management System, and Incident Command System training for City staff.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-28: Support and participate in the Redwood Coast Tsunami Work Group and other hazard mitigation groups in the region.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-29: Develop Focused Storm Drainage Facility Plans and implement drainage improvements.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-30: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
CITY OF TRINIDAD (T)				
T-1: Designate, prepare and announce Emergency Assembly Points throughout the City.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-2: Adopt a Long-term Capital Improvement Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-3: Improve hillside stability in landslide-prone areas				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-4: Prepare a Post Disaster Recovery Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-5: Obtain emergency water supplies				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-6: Perform seismic retrofits of critical facilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-7: Work with the National Oceanic and Atmospheric Association to attain the certifications of Storm Ready and Tsunami Ready.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-8: Adopt International Building Code on January 1st, 2008				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-9: Improve alternative communication capabilities throughout the City, including acquisition of emergency transceivers, satellite telephones, and/or other communication devices.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
T-10: Adopt an updated Emergency Response Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-11: Update City land use code for seismic setbacks/structural requirements and hillside development standards				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-12: Promote the formation of Community Emergency Response Teams (CERTs) and Neighborhood and Business Emergency Services Teams (NESTS and BESTs) throughout Trinidad				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-13: Maintain National Incident Management System, State Emergency Management System, and Incident Command System training for City staff.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-14: Support and participate in the Redwood Coast Tsunami Work Group and other hazard mitigation groups in the region.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-15: Obtain and distribute current information about local natural hazard risks and emergency preparedness, including creating and maintaining a hazard mitigation informational web page on the City of Trinidad website.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-16: For emergency preparedness, implement offsite parking/storage for City equipment.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
T-17: Consider participation in the National Flood Insurance program when/if special flood hazard areas are designated by FEMA for the City of Trinidad.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HUMBOLDT COUNTY (HC)				
HC-1: FEMA training in Benefit/Cost Analysis				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-2: Join CRS program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-3: Obtain Firewise Certification				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-4: Draft and adopt a Post-Disaster Action Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-5: Develop, map, and communicate evacuation routes for all applicable hazards				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-6: Identify priority locations for landslide mitigation projects and move forward on implementing the most appropriate mitigation for each location. Mitigation could include building rock buttress (or other type of buttress fill) and retaining walls. Also, address the landslide hazard by mitigating subsurface and surface water in roadway prism (use culverts and ditching for surface water and under drains and interceptor trenches for subsurface water)				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
HC-7: Update Post-Disaster Recovery Ordinance				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-8: Implement priority recommendations from the Humboldt County Master Fire Protection Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-9: Evaluate flood zones for the establishment of Base Flood Elevations				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-10: Adopt International Building Code pursuant to state mandate as soon as it is adopted by the State.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-11: Conduct a systematic assessment of all important/critical County buildings and infrastructure in high hazard zones, to identify their specific vulnerabilities and to identify cost effective mitigation solutions.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-12: Engineering or retrofitting new and existing roads and bridges to withstand hazards.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-13: Complete a comprehensive inventory of unreinforced masonry buildings within the unincorporated area of Humboldt County and include a Cost/Benefit Analysis of each URM structure to determine if the benefits of reinforcement outweigh the costs.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-14: Adopt an ordinance to require strengthening and/or reinforcement of unreinforced masonry buildings (per the requirements of the 1986 Government Code 8875 et seq.), except residential structures and warehouses. This will require a strong public education program coupled with financial incentives to achieve community support.				
Based on the Cost/Benefit Analysis in 14 above, provide funding options and assistance to reduce owner expense and accomplish this initiative				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-15: Join the NOAA Tsunami Ready Program (includes Storm Ready)				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-16: Develop probabilistic tsunami hazard maps or other methodology suitable for flood insurance risk use and make available to the public				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-17: Develop and implement a tsunami signage program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-18: Support the State of California in its effort to develop criteria, with guidance from an expert panel, for addressing the Tsunami hazard in local land use planning				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-19: Develop a tsunami warning and response system				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-20: Provide training for appropriate staff within the County on the use of HAZUS-MH software				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
HC-21: Develop a public education program to demonstrate steps citizens can take to make their homes less vulnerable to natural hazard impacts and inform them about hazard mitigation and preparedness via county website and other media sources.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-22: Design, post to the web and publicize the availability of a web GIS mapping tool providing detailed maps of natural hazard overlays with site address and/or parcel locations				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-23: Secure property interests (fee title or easements) for sediment detention facilities and/or develop these facilities in areas where excessive sediment is a primary cause of flooding				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-24: Seek funding and authorization to include seismic upgrades to planned major repairs of county buildings to increase resistance to earthquake damage, especially buildings critical to emergency response and recovery (including designs and feasibility studies associated with the construction project) These include, but shall not be limited to, the buildings proposed for remodeling in the Capital Project Plan.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-25: Design and distribute building guides to help citizens comply with hazard mitigation code requirements.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-26: Upgrade landslide hazard mapping by producing a complete uniform dataset following the CDMG North Coast Watersheds Mapping project methodology, or similar acceptable mapping approach and make easily accessible to public.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-27: Establish an agreement with haulers to assist with the development of emergency plans for transporting and disposing of post disaster event debris, ahead of a disaster.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-28: Identify and develop adequate locations for the temporary storage of post disaster event debris.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-29: Secure funding for additional GIS staffing capacity to provide interagency coordination and consolidated, integrated GIS capabilities including all county departments and other applicable agencies				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-30: Hardening and reinforcement of repeater sites (retrofit)				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-31: Public education for identified isolated islands of humanity. This could include the development of CERTS.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-23: Retrofit airport runways to be able to receive larger aircrafts-Rohnerville, Arcata/McKinleyville, Murray				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-33: Update County Operations Plan for better integration and training coordination				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-34: Develop County COOP (Continuity of Operations Plan)				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
HC-35: Relocate and/or develop a mobilization plan for PW maintenance yards.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-36: Relocation/digitize stored County Records				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-37: Establish alternate Office of Emergency Services Emergency Operations Center				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-38: Retrofit/upgrade Redwood Acres and Humboldt County Fairgrounds for use as critical infrastructure for response and recovery activities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-39: Upgrade/develop redundant interoperable communication systems (fiber optic, wireless,, radio, other)				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-40: Include in Capital Improvements Plan --back-up emergency energy sources				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-41: Current EH program provides regulatory oversight of high hazard facilities which includes Process Hazard Analysis, what if checklists, Hazard and Operability Studies, Failure Mode and Effects Analysis				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-42: Current EH program provides regulatory oversight of high hazard facilities which includes a Hazard Assessment in accordance with CalARP requirements.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-43: Support fisheries enhancement, maintenance, restoration programs, and native stock replenishment programs				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-44: Support conservation easement programs intended to preserve or restore healthy fish species habitat				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-45: Support wetland/riparian protection, restoration, enhancement and maintenance programs				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-46: Support studies to evaluate fish populations as well as disease impact studies				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-47: Perform "risk-based" analysis of non-accredited levees within the planning area (Redwood Creek) to identify the most cost-beneficial remediation of those facilities. Implement recommendation of the analysis.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-48: Support studies to evaluate the effect of the major dams operating procedures on resident fish.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-49: Develop a Habitat Conservation Plan.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-50: Dam and levee reinforcement and new construction.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
HC-51: Amend or enhance the Hazard Mitigation Plan on an “as needed” basis to comply with state or federal mandates (i.e. CA. Assembly Bill # 2140) as guidance for compliance with these programs become available.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HC-52: Continue participation and maintain good standing in the National Flood Insurance Program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
ORLEANS COMMUNITY SERVICES DISTRICT (OCSD)				
OCSD-1: Retrofit existing water storage tank for the impacts of earthquake and landslides, while increasing the storage capacity for fire protection capability.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
OCSD-2: Retrofit existing water distribution system for the impacts of earthquake, flood and landslide. Retrofit to include where feasible, extension of existing system to non-serviced areas to provide fire hydrant protection.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
OCSD-3: Structural/nonstructural seismic retrofit of OFPD fire house.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
OCSD-4: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
ORICK COMMUNITY SERVICES DISTRICT (O)				
O-1: Provide public outreach for tsunami awareness				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
O-2: Seismic retro fit of water supply system				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
O-3: Upgrade levees to 250 years flood Protection Level				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HUMBOLDT COMMUNITY SERVICES DISTRICT (HCSD)				
HCSD-1: Retrofit Tanks, Ridgewood, Walnut, and Freshwater among others.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HCSD-2: Enhance water supply system for fire prevention, in areas rated high by Cal Fire				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HCSD-3: Acquire support equipment such as: backup generators and water pumps				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HCSD-4: Engineering feasibility study of Critical Facilities for structural and non-structural mitigation.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HCSD-5: Promote public awareness of the risk associated with natural hazards to HCSD rate payers via public information means available to HCSD (is there a problem with this one?)				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
WILLOW CREEK COMMUNITY SERVICES DISTRICT (WCCSD)				
WCCSD-1: Retrofit existing water storage tank for the impacts of earthquake and landslides, while increasing the storage capacity for fire protection capability.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCCSD-2: Retrofit existing water distribution system for the impacts of earthquake, flood and landslide. Retrofit to include where feasible, extension of existing system to non-served areas to provide fire hydrant protection.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCCSD-3: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WILLOW CREEK FIRE PROTECTION DISTRICT (WCFPD)				
WCFPD-1: Seismic retrofit fire hall				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCFPD-2: Multi-Agency Emergency Management Facility				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCFPD-3: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WEOTT COMMUNITY SERVICES DISTRICT (WCSD)				
WCSD-1: Install Water Meters				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCSD-2: Retrofit/Upgrade Transmission Lines for possible impacts from earthquake and landslides				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCSD-3: Develop redundancy to water supply by establishing a Back-Up Well Facility				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCSD-4: Retrofit the community hall for the probable impacts of earthquake, flooding and severe weather				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCSD-5: Establish “defensible” spaces around identified critical facilities and infrastructure by clearing accumulated brush around facilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
WCSD-6: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
MCKINLEYVILLE COMMUNITY SERVICES DISTRICT (MCSD)				
MCSD-1: Earthquake :Mitigate for loss of water transmission line under the Mad River				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
MCSD-2: Flooding: River bank stabilization of Mad River west of the Ocean Avenue area				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
MCSD-3: Water Well for backup system supply				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
REDWAY COMMUNITY SERVICES DISTRICT (RW)				
RW-1: Reinforce Riverbank at Water treatment plant to mitigate the impacts of stream bank erosion				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RW-2: Enhance stormwater management capability within the district, with an emphasis on upgrades to existing stormwater conveyance system				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RW-3: Community outreach/Education Disaster Preparedness				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RW-4: Add Alternate/Redundant aerial crossing for effluent from Wastewater Plant				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HUMBOLDT #1, FIRE PROTECTION DISTRICT (HFD)				
HFD-1: Seismic Retrofit Station 12				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HFD-2: Private Bridge Safety Program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HFD-3: Training Facilities - multi-agency				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HFD-4: Support the District's CPR education program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HFD-5: Employee Disaster Response Plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HFD-6: Seismic Retrofit Station 11				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
ARCATA FIRE PROTECTION DISTRICT (AFPD)				
AFPD-1: Continue/enhance ongoing public education programs to include components on hazard awareness and mitigation.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
AFPD-2: Update District sponsored website to include preparedness, warning and mitigation information on the Earthquake, Tsunami and Wildfire Initiatives.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
AFPD-3: Retrofit all fire stations with non-combustible roofing material.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
AFPD-4: Provide/update new radios for all "First responders."				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
AFPD-5: Outfit/equip 2 apparatus to meet USAR capabilities.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
AFPD-6: Acquire transmitter for thermal imager.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
AFPD-7: Support/adopt county-wide Fire apparatus program				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
AFPD-8: Support/implement county-wide initiatives of the Humboldt County Hazard Mitigation Plan.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RIO DELL FIRE PROTECTION DISTRICT (RDFD)				
RDFD-1: Develop a post disaster action plan				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RDFD-2: Initiate Public outreach and education efforts, including an active Firewise program.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RDFD-3: Clear fuels on land that can trigger or maintain wildfires.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RDFD-4: Establish and maintain mutual aid agreements between fire service agencies.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RDFD-5: Identify and create emergency vehicle access in high hazard areas.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RDFD-6: Install fire suppression sprinkler system throughout fire station at 50 West Center St.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SAMOA PENINSULA FIRE PROTECTION DISTRICT (SP)				
SP-1: Seismic and Tsunami Retrofit Fairhaven Station				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SP-2: Achieve Tsunami Ready Status for Fairhaven				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SP-3: Build vertical evacuation site for Fairhaven				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SP-4: Achieve Tsunami Ready Status for Samoa				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
(SHELTER COVE) RESORT IMPROVEMENT DISTRICT NO. 1 (RID)				
RID-1: Development and initial implementation of vegetative management program on greenbelt and other RID property.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RID-2: Annual power line tree trimming				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
RID-3: Building extra water storage capacity to counteract drought and fight fires				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RID-4: Seismic retrofit or replacement of 11 water tanks.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RID-5: Automation of the existing tsunami siren				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
GARBERVILLE SANITARY DISTRICT (GSD)				
GSD-1: Map out the water and wastewater system				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
GSD-2: Consider store water/captured water techniques				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
GSD-3: Educate the public in awareness, preparation, mitigation response, and recovery alternatives				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
GSD-4: Purchase generator for backup power				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
GSD-5: Prepare an update to the Hazard Mitigation Plan for the District				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HUMBOLDT BAY MUNICIPAL WATER DISTRICT (HBMWD)				
HBMWD-1: Retrofit emergency water supply interties for the communities of McKinleyville, Blue Lake, Fieldbrook-Glendale and possibly Arcata and Eureka				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HBMWD-2: Acquire Emergency Response Equipment – Yellowmine Pipe, K-Rails, traffic plates, portable fencing, gravel/sand				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HBMWD-3: Acquire Support Equipment for Emergency Operations Centers at Essex, Korblex and Eureka				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HBMWD-4: Conduct public awareness education regarding hazards affecting water supply				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HBMWD-5: Conduct design and feasibility studies for construction of critical infrastructure/facilities				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HBMWD-6: Retrofit Techite domestic waterline on Samoa Peninsula				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HUMBOLDT BAY HARBOR, RECREATION, AND CONSERVATION DISTRICT (HB)				
HB-1: Assess and enhance the Harbor District’s storm and tsunami warning capability by joining NOAA “Storm Ready” and “Tsunami Ready” programs				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
HB-2: Rebuild/retrofit warehousing at Redwood Marine Terminal				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-3: Rebuild breakwater at Woodley Island Marina				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-4: Rebuild work dock at Woodley Island Marina				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-5: Rebuild breakwater at Shelter Cove				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-6: Install floating breakwater on east end of Woodley Island Marina				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-7: Develop standard specifications for levee repair/rehabilitation to minimize breaching and overtopping				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-8: Develop Dredge Material Management Program in order to ensure adequate water depths necessary for safe navigation and emergency access				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
HB-9: Rebuild Redwood Marine Terminal and Fields Landing Terminal Berths				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RECLAMATION DISTRICT #768 (RD)				
RD-1: Ongoing Levee Maintenance and Flood Gate upkeep				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-2: Levee Raising / Tsunami Ready Certification				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
RD-3: Levee Improvements for Storm Ready Certification				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
ST. JOSEPH HEALTH SYSTEM, HUMBOLDT COUNTY (REDWOOD MEMORIAL HOSPITAL, ST. JOSEPH HOSPITAL) (SJ)				
SJ-1: Structural seismic retrofit of hospital facility according to Hospital Campus Master Plan. Construction of new facility to meet seismic standards.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SJ-2: Non-structural seismic retrofit of hospital facilities according to Hospital Campus Master Plan.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SJ-3: Support County Wide Initiatives that promote the education of the public on the impacts of natural hazards within Humboldt County, and the preparedness for and the mitigation of those impacts. This support will be in the form dissemination of appropriate information to the residents of Humboldt and continuing support/participation in the Humboldt County Hazards Mitigation Planning Partnership.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

TABLE PR-2. ACTION PLAN MATRIX				
Action Taken?	Time Line	Priority Changed?	Comment (Describe progress or changed priority)	Status
SJ-4: Utilize information provided in the Humboldt County risk assessment to consider emergency management provisions that will reduce the vulnerability to, and enhance the preparedness for the impacts of natural hazards that SJHS-HC has exposure.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE
SJ-5: Continue to coordinate and work with Humboldt County Emergency Management in disaster response and preparedness. This level of coordination should include updates to the Emergency response plan, development of a post disaster action plan, training and support.				
CHOOSE	CHOOSE	CHOOSE		CHOOSE

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

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

Recommendations for Changes or Enhancements

The HOAHMP Steering Committee has used this report as the basis for the changes made to the HOAHMP during the plan update process in 2013. The changes are chronicled in Volume 1, Chapter 2 of the updated plan.

Public review notice: The contents of this report are considered to be public knowledge and have been prepared for total public disclosure. Copies of the report have been provided to the governing bodies of all planning partners, the local media outlets, and posted on the Humboldt County -Hazard Mitigation Plan website. Any questions or comments regarding the contents of this report should be directed to:

*Cybelle Immitt
Natural Resources Planning Division
Department of Public Works
County of Humboldt
(707) 268-3736 (direct)
cimmitt@co.humboldt.ca.us*