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

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

Prepared by:
TETRA TECH

90 South Blackwood Avenue
Eagle, ID 83616

Project #103S2497
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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
**The Steering Committee:** The development of the plan was overseen by a steering committee that was made up of planning partners and stakeholders within the planning area. This oversight committee operated under a set of ground rules that they helped to establish and that supported the primary objectives of the planning process. It was determined through the plan’s development process that a Steering committee will remain as a viable body to oversee the maintenance aspects of the plan as established in Chapter 7. This body will remain as organized in the established ground rules, but will be dynamic in its membership. It is anticipated that there will be turnover in this membership annually that will be monitored via the progress reporting mechanism. It is also anticipated the Steering Committee’s role in overall plan implementation will be dynamic, based on the hazard mitigation needs of the Operational Area. At a minimum, the Steering Committee will provide technical review and oversight on the development of a performance period progress report. For this reporting period, the Steering Committee Membership is as indicated in table PR-1.

<table>
<thead>
<tr>
<th>TABLE PR-1. STEERING COMMITTEE MEMBERS</th>
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<tbody>
<tr>
<td><strong>Name</strong></td>
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a. Steering Committee Chairperson  
b. Steering Committee Vice Chairperson

**Natural Hazard Events within the Planning Area**

During the reporting period, there were __ natural hazard events within the planning area that had a measurable impact on people or property.

- *(Provide a summary of events)*
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>
<thead>
<tr>
<th>Action Taken?</th>
<th>Time Line</th>
<th>Priority Changed?</th>
<th>Comment (Describe progress or changed priority)</th>
<th>Status</th>
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<tr>
<td>A-1: Designate, prepare and announce Emergency Assembly Points throughout the City.</td>
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<tr>
<td>A-2: Adopt a Long-term Capital Improvement Plan.</td>
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<td>A-3: Improve hillside stability in landslide-prone areas utilizing feasible approaches that provide the highest degree of benefit, for the least cost.</td>
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<td>A-4: Conduct an updated Dam Failure Flood Routing Analysis for City of Arcata Dam #2</td>
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<td>A-5: Prepare a Post Disaster Recovery Plan</td>
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<td>A-6: Install Emergency water inter-ties between neighboring jurisdictions</td>
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<td>A-7: Develop ring levees around at risk critical facilities</td>
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<td>A-8: Perform seismic retrofits of critical facilities</td>
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<tr>
<td>A-9: Work with the NOAA to attain the certifications of Storm Ready and Tsunami Ready.</td>
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<td>A-10: Perform preventive maintenance of Jane’s Creek and other drainage ways.</td>
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<td>A-11: Adopt International Building Code.</td>
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<td>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.</td>
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<td>A-13: Adopt an updated Emergency Response Plan</td>
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<td>A-14: Establish a warning system for Dam Failure</td>
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<td>Action</td>
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<td>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.</td>
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<tr>
<td>A-23: Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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**CITY OF BLUE LAKE (BL)**

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<th>Comment (Describe progress or changed priority)</th>
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<tbody>
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<td>BL-2: Prepare a Post Disaster Recovery Plan</td>
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<tr>
<td>BL-3: Adopt International Building Code 2008</td>
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<tr>
<td>BL-4: Install Emergency water inter-ties between neighboring jurisdictions</td>
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<tr>
<td>BL-5: Support county-wide initiatives in the Humboldt Operational Area Hazard mitigation Plan</td>
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<tr>
<td>BL-6: Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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**CITY OF EUREKA (E)**

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<th>Comment (Describe progress or changed priority)</th>
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<tbody>
<tr>
<td>E-1: Replace/retrofit Eureka Fire Main Station and Emergency Operations Center (same location) to provide seismic strengthening to maintain essential emergency services.</td>
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<td>Action</td>
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<tr>
<td>E-2: Reconstruct Dock B to provide seismic strengthening to reduce risk of structural failure and sustain needed economic infrastructure.</td>
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<tr>
<td>E-3: Construct Corporation Yard improvements to reduce risk of structural failure and increase efficiency and operations during natural disaster.</td>
<td>CHOOSE</td>
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<tr>
<td>E-4: Construct Eureka Municipal Airport improvements to provide for increased use, safety and security of airport during a natural disaster.</td>
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<td>E-5: Construct a Fire Manipulative Training Facility in a central location to train emergency responders.</td>
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<td>E-6: Construct Fire Station 3 and 4 improvements to increase capacity for emergency apparatus and equipment and personnel.</td>
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<td>E-7: Replace/retrofit/upgrade and cleanup fuel terminal facility to improve safety, minimize environmental impacts, and provide a more reliable fuel system.</td>
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<td>E-8: Construct Martin Slough Enhancement Project to reduce property and environmental damage caused by flooding.</td>
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<td>E-9: Construct Police Station Modifications to improve security and efficiency.</td>
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<tr>
<td>E-10: Install, replace and repair or relocate Storm Drainage facilities to improve environmental protection of Humboldt Bay during severe weather events and flooding.</td>
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<tr>
<td>E-11: Repair and replace Sewer Lift Station facilities to improve environmental protection of Humboldt Bay during severe weather events and flooding.</td>
<td>CHOOSE</td>
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<tr>
<td>E-12: Construct Martin Slough Sewer Interceptor to protect and improve efficiency, safety and reliability of wastewater collection and transport system.</td>
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<tr>
<td>E-13: Construct Standby Emergency Power Generator to ensure wastewater treatment plant is operational during critical emergencies and disasters.</td>
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<td>E-14: Construct Extended Fuel Storage Facilities to provide adequate fuel storage at additional locations during periods of extended power outage.</td>
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<tr>
<td>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.</td>
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<tr>
<td>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</td>
<td>CHOOSE</td>
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<tr>
<td>E-17: Implement Storm Water Management Plan to educate public about controlling/improving flooding events and water quality in the City.</td>
<td>CHOOSE</td>
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<tr>
<td>E-18: Create and maintain a hazard mitigation informational web page on the City’s website.</td>
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<tr>
<td>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.</td>
<td>CHOOSE</td>
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<tr>
<td>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.</td>
<td>CHOOSE</td>
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<tr>
<td>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.</td>
<td>CHOOSE</td>
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<tr>
<td>E-22: Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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**CITY OF FERNDALE (F)**

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<tr>
<th>Action Taken?</th>
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<th>Comment (Describe progress or changed priority)</th>
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<tr>
<td>F-1: Designate, prepare and announce Emergency Assembly Points throughout the City.</td>
<td>CHOOSE</td>
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<tr>
<td>F-2: Adopt a long-term Capital Improvement Plan</td>
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<tr>
<td>F-3: Improve hillside stability in landslide-prone by improving drainage and planting plants that protect soil and retaining walls where needed.</td>
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<td>F-4: Prepare a Post Disaster Recovery Plan</td>
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<td>F-5: Develop ring levees around at risk facilities</td>
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<tr>
<td>F-6: Perform Seismic retrofits of critical facilities, such as the public works facility and the Wastewater facility</td>
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<tr>
<td>F-7: Work with NOAA to attain the certificates of Storm Ready and Tsunami Ready</td>
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<td>F-8: Perform Preventative Maintenance for Francis Creek</td>
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<tr>
<td><strong>F-10:</strong> Establish redundant communication capabilities throughout the city.</td>
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<tr>
<td><strong>F-11:</strong> Adopt an updated Emergency Response Plan</td>
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<tr>
<td><strong>F-12:</strong> Update City Land Use Code for seismic setbacks/structural requirements and hillside development standards</td>
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<tr>
<td><strong>F-13:</strong> Update floodplain mapping throughout the City, including continued participation with a national flood insurance program</td>
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<td><strong>F-14:</strong> Maintain National Incident Management System and Incident Command System training for City staff</td>
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<tr>
<td><strong>F-15:</strong> Obtain and distribute current information about local natural hazards risk and emergency preparedness including creating and maintaining current website information</td>
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<tr>
<td><strong>F-16:</strong> Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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**CITY OF FORTUNA (FO)**

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<tr>
<th>City</th>
<th>Action</th>
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<tbody>
<tr>
<td><strong>FO-1:</strong></td>
<td>Protect City’s major water supply storage from landslides and earthquake damage. CIP Project #9124 &amp; 9327.</td>
<td>CHOOSE</td>
</tr>
<tr>
<td><strong>FO-2:</strong></td>
<td>Localized Detention Basin @ Strongs Creek headwaters. CIP Project #9603</td>
<td>CHOOSE</td>
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<tr>
<td><strong>FO-3:</strong></td>
<td>Localized Detention Basin @ Rohner Creek headwaters. CIP Project #9602</td>
<td>CHOOSE</td>
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<tr>
<td><strong>FO-4:</strong></td>
<td>Construct flap gate valves at various locations throughout City to prevent backwater inundation from major creek channel high water conditions.</td>
<td>CHOOSE</td>
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<tr>
<td><strong>FO-5:</strong></td>
<td>Increase channel capacity through bank elevation improvements at localized regions of repetitive flooding incidents. CIP Project #9704</td>
<td>CHOOSE</td>
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<tr>
<td><strong>FO-6:</strong></td>
<td>Vegetation clearing of existing drainage courses including ditches and creek channels. CIP Project 9709.</td>
<td>CHOOSE</td>
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<tr>
<td><strong>FO-7:</strong></td>
<td>Stabilize hillsides from mass landslide movements at or adjacent to street right-of-ways.</td>
<td>CHOOSE</td>
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<tr>
<td><strong>FO-8:</strong></td>
<td>Rohner Creek by-pass. CIP Project #9601</td>
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<tr>
<td>FO-9: Rohner Creek widening. CIP Project #9600</td>
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<tr>
<td>FO-10: New 48” storm drain at Third St. @ Stockyard. CIP Project #9702.</td>
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<tr>
<td>FO-11: Detention Basin on Mill Creek. CIP Project #9804.</td>
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<tr>
<td>FO-12: Detention basin cleaning. CIP Project #9601.</td>
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<tr>
<td>FO-13: Dinsmore Drive flood control. CIP Project #9502.</td>
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<tr>
<td>FO-14: Elevate emergency generator @ water supply/treatment facility above 100 year flood elev.</td>
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<tr>
<td>FO-15: Strong’s Creek by-pass @ US 101 box culvert to Riverwalk Detention Basin.</td>
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<tr>
<td>FO-16: Circle levee @ water supply/treatment facility above 100 year flood elev.</td>
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<tr>
<td>FO-17: Seismic retrofit of at-grade water storage tanks (250,000 &amp; 1 million gallons).</td>
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<tr>
<td>FO-18: Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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<tr>
<td>CITY OF RIO DELL (RD)</td>
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<tr>
<td>RD-1: Chlorine Generation Equipment Replacement and Seismic Retrofit</td>
<td>CHOOSE</td>
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<tr>
<td>RD-2: Upgrade Pumps at Headworks</td>
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<tr>
<td>RD-3: Improvements to Wastewater Collection System Mains, Laterals, and Manholes</td>
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<tr>
<td>RD-4: Wastewater Lift Stations Maintenance and Upgrades</td>
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<tr>
<td>RD-5: Install Stormproof Fuel Storage Tanks</td>
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<tr>
<td>RD-6: Belleview Creek Crossing Repair</td>
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<tr>
<td>RD-7: Painter Street to Highway 101 Drainage Ditch Repair</td>
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<tr>
<td>RD-8: Center Street to Painter Street Culvert Improvements</td>
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<tr>
<td>RD-9: City Hall Seismic Retrofit</td>
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<tr>
<td>RD-10: Fireman’s Hall Seismic Retrofit</td>
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<tr>
<td>RD-11: City Standby Power Generation Capabilities</td>
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<tr>
<td>RD-12: Fire Sprinkler Installation at City Hall and Fireman’s Hall</td>
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<tr>
<td>RD-13: Construct Retaining Wall on Road to Dinsmore</td>
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<tr>
<td>RD-14: Elevating Wastewater Plant</td>
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<tr>
<td>RD-15: Designate, prepare and announce Emergency Assembly Points throughout the City.</td>
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<tr>
<td>RD-16: Adopt a Long-term Capital Improvement Plan</td>
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<tr>
<td>RD-17: Improve hillside stability in landslide-prone areas</td>
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<tr>
<td>RD-18: Prepare a Post Disaster Recovery Plan</td>
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<tr>
<td>RD-19: Install Emergency water interties between neighboring jurisdictions</td>
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<tr>
<td>RD-20: Work with the National Oceanic and Atmospheric Association to attain the certifications of Storm Ready and Tsunami Ready.</td>
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<tr>
<td>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.</td>
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<tr>
<td>RD-23: Adopt an updated Emergency Response Plan</td>
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<tr>
<td>RD-24: Update City land use code for seismic setbacks/structural requirements and hillside development standards</td>
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<tr>
<td>RD-25: Promote the formation of Community Emergency Response Teams (CERTs) and Neighborhood and Business Emergency Services Teams (NESTS and BESTs) throughout Rio Dell</td>
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<tr>
<td>RD-26: Update floodplain mapping throughout the City, including continued participation with the National Flood Insurance Program.</td>
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<tr>
<td>RD-28: Support and participate in the Redwood Coast Tsunami Work Group and other hazard mitigation groups in the region.</td>
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<tr>
<td>RD-29: Develop Focused Storm Drainage Facility Plans and implement drainage improvements.</td>
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<tr>
<td>RD-30: Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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**CITY OF TRINIDAD (T)**

<p>| 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 |</p>
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<tr>
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<tr>
<td>T-10: Adopt an updated Emergency Response Plan</td>
<td>CHOOSE</td>
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<tr>
<td>T-11: Update City land use code for seismic setbacks/structural requirements and hillside development standards</td>
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<tr>
<td>T-12: Promote the formation of Community Emergency Response Teams (CERTs) and Neighborhood and Business Emergency Services Teams (NESTS and BESTs) throughout Trinidad</td>
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<td>T-13: Maintain National Incident Management System, State Emergency Management System, and Incident Command System training for City staff.</td>
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<tr>
<td>T-14: Support and participate in the Redwood Coast Tsunami Work Group and other hazard mitigation groups in the region.</td>
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<td>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.</td>
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<tr>
<td>T-16: For emergency preparedness, implement offsite parking/storage for City equipment.</td>
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<tr>
<td>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.</td>
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**HUMBOLDT COUNTY (HC)**

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<tbody>
<tr>
<td>HC-1: FEMA training in Benefit/Cost Analysis</td>
<td>CHOOSE</td>
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<tr>
<td>HC-2: Join CRS program</td>
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<td>HC-3: Obtain Firewise Certification</td>
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<td>HC-4: Draft and adopt a Post-Disaster Action Plan</td>
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<td>HC-5: Develop, map, and communicate evacuation routes for all applicable hazards</td>
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<tr>
<td>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)</td>
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<tr>
<td><strong>HC-7:</strong> Update Post-Disaster Recovery Ordinance</td>
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<tr>
<td><strong>HC-8:</strong> Implement priority recommendations from the Humboldt County Master Fire Protection Plan</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HC-9:</strong> Evaluate flood zones for the establishment of Base Flood Elevations</td>
<td>CHOOSE</td>
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<td><strong>HC-10:</strong> Adopt International Building Code pursuant to state mandate as soon as it is adopted by the State.</td>
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<tr>
<td><strong>HC-11:</strong> 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.</td>
<td>CHOOSE</td>
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<td><strong>HC-12:</strong> Engineering or retrofitting new and existing roads and bridges to withstand hazards.</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HC-13:</strong> 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.</td>
<td>CHOOSE</td>
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<td><strong>HC-14:</strong> 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</td>
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<td><strong>HC-15:</strong> Join the NOAA Tsunami Ready Program (includes Storm Ready)</td>
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<td><strong>HC-16:</strong> Develop probabilistic tsunami hazard maps or other methodology suitable for flood insurance risk use and make available to the public</td>
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<td><strong>HC-17:</strong> Develop and implement a tsunami signage program</td>
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<td><strong>HC-18:</strong> 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</td>
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<td><strong>HC-19:</strong> Develop a tsunami warning and response system</td>
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<td><strong>HC-20:</strong> Provide training for appropriate staff within the County on the use of HAZUS-MH software</td>
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<td>HC-21:</td>
<td>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.</td>
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<td>HC-22:</td>
<td>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</td>
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<td>HC-23:</td>
<td>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</td>
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<td>HC-24:</td>
<td>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.</td>
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<td>HC-25:</td>
<td>Design and distribute building guides to help citizens comply with hazard mitigation code requirements.</td>
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<td>HC-26:</td>
<td>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.</td>
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<td>HC-27:</td>
<td>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.</td>
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<td>HC-28:</td>
<td>Identify and develop adequate locations for the temporary storage of post disaster event debris.</td>
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<td>HC-29:</td>
<td>Secure funding for additional GIS staffing capacity to provide interagency coordination and consolidated, integrated GIS capabilities including all county departments and other applicable agencies</td>
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<td>HC-30:</td>
<td>Hardening and reinforcement of repeater sites (retrofit)</td>
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<td>HC-31:</td>
<td>Public education for identified isolated islands of humanity. This could include the development of CERTS.</td>
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<td>HC-23:</td>
<td>Retrofit airport runways to be able to receive larger aircrafts-Rohnerville, Arcata/McKinleyville, Murray</td>
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<td>HC-33:</td>
<td>Update County Operations Plan for better integration and training coordination</td>
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<td>HC-34:</td>
<td>Develop County COOP (Continuity of Operations Plan)</td>
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<td>HC-35: Relocate and/or develop a mobilization plan for PW maintenance yards.</td>
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<td>HC-36: Relocation/digitize stored County Records</td>
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<td>HC-37: Establish alternate Office of Emergency Services Emergency Operations Center</td>
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<td>HC-38: Retrofit/upgrade Redwood Acres and Humboldt County Fairgrounds for use as critical infrastructure for response and recovery activities</td>
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<td>HC-39: Upgrade/develop redundant interoperable communication systems (fiber optic, wireless, radio, other)</td>
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<td>HC-40: Include in Capital Improvements Plan -- back-up emergency energy sources</td>
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<td>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</td>
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<td>HC-42: Current EH program provides regulatory oversight of high hazard facilities which includes a Hazard Assessment in accordance with CalARP requirements.</td>
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<td>HC-43: Support fisheries enhancement, maintenance, restoration programs, and native stock replenishment programs</td>
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<td>HC-44: Support conservation easement programs intended to preserve or restore healthy fish species habitat</td>
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<td>HC-45: Support wetland/riparian protection, restoration, enhancement and maintenance programs</td>
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<td>HC-46: Support studies to evaluate fish populations as well as disease impact studies</td>
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<td>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.</td>
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<td>HC-48: Support studies to evaluate the effect of the major dams operating procedures on resident fish.</td>
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<td>HC-49: Develop a Habitat Conservation Plan.</td>
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<td>HC-50: Dam and levee reinforcement and new construction.</td>
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<td><strong>HC-51:</strong> 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.</td>
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<td><strong>HC-52:</strong> Continue participation and maintain good standing in the National Flood Insurance Program.</td>
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**ORLEANS COMMUNITY SERVICES DISTRICT (OCSD)**

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<tr>
<td><strong>OCSD-1:</strong> Retrofit existing water storage tank for the impacts of earthquake and landslides, while increasing the storage capacity for fire protection capability.</td>
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<tr>
<td><strong>OCSD-2:</strong> 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.</td>
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<td><strong>OCSD-3:</strong> Structural/nonstructural seismic retrofit of OFPD fire house.</td>
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<td><strong>OCSD-4:</strong> Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan</td>
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**ORICK COMMUNITY SERVICES DISTRICT (O)**

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<tbody>
<tr>
<td><strong>O-1:</strong> Provide public outreach for tsunami awareness</td>
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<tr>
<td><strong>O-2:</strong> Seismic retrofit of water supply system</td>
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<tr>
<td><strong>O-3:</strong> Upgrade levees to 250 years flood Protection Level</td>
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**HUMBOLDT COMMUNITY SERVICES DISTRICT (HCSD)**

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<tr>
<td><strong>HCSD-1:</strong> Retrofit Tanks, Ridgewood, Walnut, and Freshwater among others.</td>
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<tr>
<td><strong>HCSD-2:</strong> Enhance water supply system for fire prevention, in areas rated high by Cal Fire</td>
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<td><strong>HCSD-3:</strong> Acquire support equipment such as: backup generators and water pumps</td>
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<td><strong>HCSD-4:</strong> Engineering feasibility study of Critical Facilities for structural and non-structural mitigation.</td>
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<td><strong>HCSD-5:</strong> 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?)</td>
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<td>WILLLOW CREEK COMMUNITY SERVICES DISTRICT (WCCSD)</td>
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<td>WCCSD-1: Retrofit existing water storage tank for the impacts of earthquake and landslides, while increasing the storage capacity for fire protection capability.</td>
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<td>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-serviced areas to provide fire hydrant protection.</td>
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<td>WCCSD-3: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan</td>
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<td>WILLOW CREEK FIRE PROTECTION DISTRICT (WCFPD)</td>
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<td>WCFPD-1: Seismic retrofit fire hall</td>
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<td>WCFPD-2: Multi-Agency Emergency Management Facility</td>
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<td>WCFPD-3: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan</td>
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<td>WATT COMMUNITY SERVICES DISTRICT (WCSD)</td>
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<td>WCSD-1: Install Water Meters</td>
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<td>WCSD-2: Retrofit/Upgrade Transmission Lines for possible impacts from earthquake and landslides</td>
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<td>WCSD-3: Develop redundancy to water supply by establishing a Back-Up Well Facility</td>
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<td>WCSD-4: Retrofit the community hall for the probable impacts of earthquake, flooding and severe weather</td>
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<td>WCSD-5: Establish “defensible” spaces around identified critical facilities and infrastructure by clearing accumulated brush around facilities</td>
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<td>WCSD-6: Support county-wide initiatives identified in the Humboldt County Hazard Mitigation Plan</td>
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<td>MCKINLEYVILLE COMMUNITY SERVICES DISTRICT (MCSD)</td>
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<td>MCSD-1: Earthquake :Mitigate for loss of water transmission line under the Mad River</td>
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<td>MCSD-2: Flooding: River bank stabilization of Mad River west of the Ocean Avenue area</td>
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<td>MCSD-3: Water Well for backup system supply</td>
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<td>REDWAY COMMUNITY SERVICES DISTRICT (RW)</td>
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<td>RW-1: Reinforce Riverbank at Water treatment plant to mitigate the impacts of stream bank erosion</td>
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<td>RW-2: Enhance stormwater management capability within the district, with an emphasis on upgrades to existing stormwater conveyance system</td>
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<td>RW-3: Community outreach/Education Disaster Preparedness</td>
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<td>RW-4: Add Alternate/Redundant aerial crossing for effluent from Wastewater Plant</td>
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<td>HUMBOLDT #1, FIRE PROTECTION DISTRICT (HFD)</td>
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<td>HFD-1: Seismic Retrofit Station 12</td>
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<td>HFD-2: Private Bridge Safety Program</td>
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<td>HFD-3: Training Facilities - multi-agency</td>
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<td>HFD-4: Support the District’s CPR education program</td>
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<td>HFD-5: Employee Disaster Response Plan</td>
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<td>HFD-6: Seismic Retrofit Station 11</td>
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<td>ARCADIA FIRE PROTECTION DISTRICT (AFPD)</td>
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<td>AFPD-1: Continue/enhance ongoing public education programs to include components on hazard awareness and mitigation.</td>
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<td>AFPD-2: Update District sponsored website to include preparedness, warning and mitigation information on the Earthquake, Tsunami and Wildfire Initiatives.</td>
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<td>AFPD-3: Retrofit all fire stations with non-combustible roofing material.</td>
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<td>AFPD-4: Provide/update new radios for all “First responders.”</td>
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<td><strong>AFPD-5</strong>: Outfit/equip 2 apparatus to meet USAR capabilities.</td>
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<tr>
<td><strong>AFPD-6</strong>: Acquire transmitter for thermal imager.</td>
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<tr>
<td><strong>AFPD-7</strong>: Support/adopt county-wide Fire apparatus program</td>
<td>CHOOSE</td>
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<tr>
<td><strong>AFPD-8</strong>: Support/implement county-wide initiatives of the Humboldt County Hazard Mitigation Plan.</td>
<td>CHOOSE</td>
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</table>

**RIO DELL FIRE PROTECTION DISTRICT (RDFD)**

<table>
<thead>
<tr>
<th>Action Taken?</th>
<th>Time Line</th>
<th>Priority Changed?</th>
<th>Comment (Describe progress or changed priority)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RDFD-1</strong>: Develop a post disaster action plan</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td><strong>RDFD-2</strong>: Initiate Public outreach and education efforts, including an active Firewise program.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>RDFD-3</strong>: Clear fuels on land that can trigger or maintain wildfires.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>RDFD-4</strong>: Establish and maintain mutual aid agreements between fire service agencies.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>RDFD-5</strong>: Identify and create emergency vehicle access in high hazard areas.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>RDFD-6</strong>: Install fire suppression sprinkler system throughout fire station at 50 West Center St.</td>
<td>CHOOSE</td>
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</table>

**SAMOA PENINSULA FIRE PROTECTION DISTRICT (SP)**

<table>
<thead>
<tr>
<th>Action Taken?</th>
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<th>Comment (Describe progress or changed priority)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SP-1</strong>: Seismic and Tsunami Retrofit Fairhaven Station</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>SP-2</strong>: Achieve Tsunami Ready Status for Fairhaven</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>SP-3</strong>: Build vertical evacuation site for Fairhaven</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>SP-4</strong>: Achieve Tsunami Ready Status for Samoa</td>
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</tbody>
</table>

**(SHELTER COVE) RESORT IMPROVEMENT DISTRICT NO. 1 (RID)**

<table>
<thead>
<tr>
<th>Action Taken?</th>
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<th>Comment (Describe progress or changed priority)</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RID-1</strong>: Development and initial implementation of vegetative management program on greenbelt and other RID property.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td><strong>RID-2</strong>: Annual power line tree trimming</td>
<td>CHOOSE</td>
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<tr>
<td>Action Taken?</td>
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<tr>
<td>RID-3: Building extra water storage capacity to counteract drought and fight fires</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td>RID-4: Seismic retrofit or replacement of 11 water tanks.</td>
<td>CHOOSE</td>
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<tr>
<td>RID-5: Automation of the existing tsunami siren</td>
<td>CHOOSE</td>
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</table>

**GARBERVILLE SANITARY DISTRICT (GSD)**

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<thead>
<tr>
<th>Action Taken?</th>
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</thead>
<tbody>
<tr>
<td>GSD-1: Map out the water and wastewater system</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td>GSD-2: Consider store water/captured water techniques</td>
<td>CHOOSE</td>
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<tr>
<td>GSD-3: Educate the public in awareness, preparation, mitigation response, and recovery alternatives</td>
<td>CHOOSE</td>
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<tr>
<td>GSD-4: Purchase generator for backup power</td>
<td>CHOOSE</td>
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<tr>
<td>GSD-5: Prepare an update to the Hazard Mitigation Plan for the District</td>
<td>CHOOSE</td>
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</table>

**HUMBOLDT BAY MUNICIPAL WATER DISTRICT (HBMWD)**

<table>
<thead>
<tr>
<th>Action Taken?</th>
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</tr>
</thead>
<tbody>
<tr>
<td>HBMWD-1: Retrofit emergency water supply interties for the communities of McKinleyville, Blue Lake, Fieldbrook-Glendale and possibly Arcata and Eureka</td>
<td>CHOOSE</td>
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<tr>
<td>HBMWD-2: Acquire Emergency Response Equipment – Yellowmine Pipe, K-Rails, traffic plates, portable fencing, gravel/sand</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td>HBMWD-3: Acquire Support Equipment for Emergency Operations Centers at Essex, Korblex and Eureka</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td>HBMWD-4: Conduct public awareness education regarding hazards affecting water supply</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td>HBMWD-5: Conduct design and feasibility studies for construction of critical infrastructure/facilities</td>
<td>CHOOSE</td>
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<tr>
<td>HBMWD-6: Retrofit Techite domestic waterline on Samoa Peninsula</td>
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**HUMBOLDT BAY HARBOR, RECREATION, AND CONSERVATION DISTRICT (HB)**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>HB-1: Assess and enhance the Harbor District’s storm and tsunami warning capability by joining NOAA “Storm Ready” and “Tsunami Ready” programs</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HB-2</strong>: Rebuild/retrofit warehousing at Redwood Marine Terminal</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HB-3</strong>: Rebuild breakwater at Woodley Island Marina</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HB-4</strong>: Rebuild work dock at Woodley Island Marina</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>HB-5</strong>: Rebuild breakwater at Shelter Cove</td>
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<tr>
<td><strong>HB-6</strong>: Install floating breakwater on east end of Woodley Island Marina</td>
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<tr>
<td><strong>HB-7</strong>: Develop standard specifications for levee repair/rehabilitation to minimize breaching and overtopping</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HB-8</strong>: Develop Dredge Material Management Program in order to ensure adequate water depths necessary for safe navigation and emergency access</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td><strong>HB-9</strong>: Rebuild Redwood Marine Terminal and Fields Landing Terminal Berths</td>
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**RECLAMATION DISTRICT #768 (RD)**

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<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>RD-1</strong>: Ongoing Levee Maintenance and Flood Gate upkeep</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>RD-2</strong>: Levee Raising / Tsunami Ready Certification</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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</tr>
<tr>
<td><strong>RD-3</strong>: Levee Improvements for Storm Ready Certification</td>
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**ST. JOSEPH HEALTH SYSTEM, HUMBOLDT COUNTY (REDWOOD MEMORIAL HOSPITAL, ST. JOSEPH HOSPITAL) (SJ)**

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<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>SJ-1</strong>: Structural seismic retrofit of hospital facility according to Hospital Campus Master Plan. Construction of new facility to meet seismic standards.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<tr>
<td><strong>SJ-2</strong>: Non-structural seismic retrofit of hospital facilities according to Hospital Campus Master Plan.</td>
<td>CHOOSE</td>
<td>CHOOSE</td>
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<td>CHOOSE</td>
</tr>
<tr>
<td><strong>SJ-3</strong>: 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.</td>
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</table>
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:

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