



CITY OF HAYWARD  
777 B STREET, HAYWARD, CA 94541-5007  
(510) 583-4205 / [www.hayward-ca.gov](http://www.hayward-ca.gov)  
LIVE BROADCAST – LOCAL CABLE CHANNEL 15

**AGENDA**  
**HAYWARD PLANNING COMMISSION**  
**THURSDAY, OCTOBER 6, 2011, AT 7:00 PM**  
**COUNCIL CHAMBERS**

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**MEMBERS OF THE AUDIENCE WISHING TO ADDRESS THE PLANNING COMMISSION:**

Obtain a speaker's identification card, fill in the requested information, and give the card to the Commission Secretary. The Secretary will give the card to the Commission Chair who will call on you when the item in which you are interested is being considered. When your name is called, walk to the rostrum, state your name and address for the record and proceed with your comments. The Chair may, at the beginning of the hearing, limit testimony to three (3) minutes per individual and five (5) minutes per an individual representing a group of citizens for organization. Speakers are expected to honor the allotted time.

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**ROLL CALL**

**SALUTE TO FLAG**

**ELECTION OF OFFICERS**

**PUBLIC COMMENT:** (The PUBLIC COMMENTS section provides an opportunity to address the Planning Commission on items not listed on the agenda. The Commission welcomes your comments and requests that speakers present their remarks in a respectful manner, within established time limits and focus on issues which directly affect the City or are within the jurisdiction of the City. As the Commission is prohibited by State law from discussing items not listed on the agenda, your item will be taken under consideration and may be referred to staff for further action).

**NON-ACTION ITEMS:** (Work Session items are non-action items. Although the Commission may discuss or direct staff to follow up on these items, no formal action will be taken. Any formal action will be placed on the agenda at a subsequent meeting in the action sections of the agenda).

None.

**ACTION ITEMS:** (The Commission will permit comment as each item is called for Public Hearing. Please submit a speaker card to the Secretary if you wish to speak on a public hearing item).

**PUBLIC HEARINGS:** For agenda item No. 1 the decision of the Planning Commission is final unless appealed. The appeal period is 10 days from the date of the decision. If appealed, a public hearing will be scheduled before the City Council for final decision. For agenda item No. 2 the Planning Commission may make a recommendation to the City Council.



Assistance will be provided to persons requiring accommodations for disabilities in compliance with the Americans with Disabilities Act of 1990. Persons needing accommodation should contact Sonja Dal Bianco 48 hours in advance of the meeting at (510) 583-4204, or by using the TDD line for those with speech and hearing disabilities at (510) 247-3340.

1. **Sale of Two City-Owned Properties Located North of Cabot Boulevard/West of the Hayward Airport and Between Breakwater Avenue and Whitesell Street and Grant of Conservation and Access Easements over Four Other Properties at the West End of West Winton Avenue to the East Bay Regional Parks District (EBRPD)**
2. **General Plan Amendment No. PL-2011-0301** - Adoption of the Association of Bay Area Governments' Multi-Jurisdiction-Local Hazard Mitigation Plan ("Taming Natural Disasters") as the City's Local Hazard Mitigation Plan and an Implementation Appendix of the Conservation and Environmental Protection Element of the General Plan

#### **COMMISSION REPORTS:**

3. Oral Report on Planning and Zoning Matters
4. Commissioners' Announcements, Referrals

#### **APPROVAL OF MINUTES**

5. June 23, 2011

#### **ADJOURNMENT**

**PLEASE TAKE NOTICE** that if you file a lawsuit challenging any final decision on any public hearing item listed in this agenda, the issues in the lawsuit may be limited to the issues which were raised at the City's public hearing or presented in writing to the City Clerk at or before the public hearing. **PLEASE TAKE FURTHER NOTICE** that the City Council has adopted Resolution No. 87-181 C.S., which imposes the 90 day deadline set forth in Code of Civil Procedure section 1094.6 for filing of any lawsuit challenging final action on an agenda item which is subject to Code of Civil Procedure section 1094.5.

**NOTE:** Materials related to an item on this agenda submitted to the Planning Commission after distribution of the agenda packet are available for public inspection in the Permit Center, first floor at the above address. Copies of staff reports for agenda items are available from the Commission Secretary and on the City's website the Friday before the meeting.

**DATE:** October 6, 2011

**TO:** Planning Commission

**FROM:** Morad Fakhrai, Deputy Director of Public Works

**SUBJECT:** Sale of Two City-Owned Properties Located North of Cabot Boulevard/West of the Hayward Airport and Between Breakwater Avenue and Whitesell Street and Grant of Conservation and Access Easements over Four Other Properties at the West End of West Winton Avenue to the East Bay Regional Parks District (EBRPD)

## **RECOMMENDATION**

It is recommended that the Planning Commission:

1. Finds the proposed sale and grant of easements is categorically exempt per section 15325 *Transfers of Ownership of Interest in Land to Preserve Existing Natural Conditions and Historical Resources* of the California Environmental Quality Act (CEQA);
2. Finds that the disposition of the properties is consistent with the General Plan; and
3. Recommends to the City Council that it authorizes the City Manager to execute two deeds conveying the two City-owned properties and appropriate easement documents to the East Bay Regional Parks District

## **BACKGROUND**

A 3.79 acre parcel, which is located north of Cabot Boulevard/West of the Hayward Airport (see Attachment I), was purchased by the City from EBRPD in June of 1991 and was intended for the possible extension of West A Street to Cabot Boulevard. This project became unfeasible due to Hayward Executive Airport's change in classification and the Federal Aviation Administration's (FAA's) more stringent safety zone requirements. A 32.46 acre parcel, also owned by the City, which is located between Breakwater and Whitesell (see Attachment I), was acquired from Oakland Scavenger in August of 1978 as part of the joint efforts by EBRPD, Hayward Area Recreation and Parks District (HARD) and the City of Hayward to acquire and protect the Hayward Shoreline. The parcel is mostly wetlands and shoreline habitat area and has remained unused since it was purchased. EBRPD staff proposes to acquire these two parcels for shoreline management purposes.

Also, EBRPD proposes public access and conservation easements over four other properties owned by the City that total 64.60 acres, encompassing the former West Winton landfill site (see Attachment I). Such request relates to the District's desire to ensure such land will not be used for

uses like radio towers that were proposed by Salem Communications in 2009, which the District opposed and the City Council ultimately denied.

As stated in Hayward Municipal Code Section 2-3.02, one of the functions of the Planning Commission is to, “Advise and recommend to the proper officials of the City regarding the acquisition, use, or disposition of City-owned real property.”

## **DISCUSSION**

The 1991 sale of the 3.79 acre parcel had a condition that, if the City did not need the land for the West A Street extension project, EBRPD could buy back the parcel at the price paid by the City in 1991, which is approximately \$157,000 per acre. In previous discussions regarding the West Winton landfill site, City staff had suggested that EBRPD repurchase this 3.79 acre parcel, which is no longer needed by the city. This past year, as part of a proposal to acquire a conservation easement over the entire West Winton landfill site and an access easement for their existing parking and staging area, EBRPD did agree to acquire both the 3.79 acre parcel, as well as the 32.46 acre parcel. EBRPD’s purpose in acquiring the 32.46 acre parcel is so they can manage it in conjunction with the adjoining wetland/habitat parcel to the east which they will receive from Calpine, as part of its agreement regarding the Russell City Energy Center. The 3.79 acre parcel, which is adjacent to land owned by EBRPD, will also be used for shoreline management purposes. The sale price for the 32.46 acre parcel is \$21,873 per acre, based on an appraisal which evaluated similar habitat preservation acquisitions. The appraised value of the conservation easement and the access easement is \$212,000.

Both the two sale parcels are zoned Industrial, which is inconsistent with their General Plan Land Use designation of Open Space - Baylands; however, since EBRPD’s purpose is the preservation of environmental and scenic conservation values and because the District will manage these parcels as part of the Hayward Regional Shoreline Park, the use of these parcels will be consistent with their General Plan Land Use designation.

As reflected in Attachment II, the three western-most parcels making up the West Winton landfill site have an Open Space – Baylands (BL) or - Parks and Recreation (PR) General Plan Land Use designation, and the eastern most parcel has an Industrial Corridor (I) designation. Attachment II also shows that the majority of the parcels have a Flood Plain District (FP) Zoning designation, while the eastern-most of the four parcels has an Industrial District (I) Zoning designation.

The proposed uses for these parcels by the EBRPD would be consistent with the General Plan Land Use designations for the majority of the parcels, which are indicated below.

**Parks and Recreation.** These areas include regional parks, community and neighborhood parks, and special use facilities such as golf courses, historic estates, linear parks and trails. Not shown are school athletic fields and playgrounds.

**Baylands.** These areas are to remain in open space uses such as salt and fresh water marshes, salt ponds, aquaculture, or agriculture; limited educational and recreational uses that provide public contact with the wetlands are also desirable. Existing marshes are to be preserved and opportunities to expand marsh areas pursued.

The proposed conservation use by the District for the one eastern-most parcel with the Industrial Corridor General Plan designation (see purpose below) could be considered appropriate, given the proximity of this parcel to the Hayward Shoreline Park.

**Industrial Corridor.** This area consists primarily of planned business and industrial parks along with supporting office and commercial uses. Comprehensive design standards and use restrictions permit their location adjacent to residential areas. Other industrial development may be appropriate if compatible with adjacent industrial parks or residential areas.

Since these parcels will remain City owned with conservation easements consistent with their shoreline setting, the potential inconsistency between the proposed use and the designation of the eastern most parcel will be addressed in the next comprehensive General Plan Update, scheduled to begin next fiscal year.

State law authorizes the City to dispose of property for the benefit of the public. The proposed property transfers satisfy this requirement since the properties will either be preserved in their natural state or available for recreational use by the general public.

## **ENVIRONMENTAL REVIEW**

The conveyance of these parcels is categorically exempt from environmental review pursuant to California Environmental Quality Act Guidelines (CEQA) Section 15325 *Transfers of Ownership of Interest in Land to Preserve Existing Natural Conditions and Historical Resources*.

## **PUBLIC CONTACT**

Because this transaction is between a public agency and a special district, no public notice is necessary.

## **SCHEDULE**

If the Planning Commission approves the recommendation, this matter will be submitted to City Council in order to authorize the City Manager to execute deeds conveying the City properties.

*Prepared by:* Morad Fakhrai, Deputy Director of Public Works

*Recommended by:* Robert A. Bauman, Director of Public Works

  
\_\_\_\_\_  
Richard Patenaude, AICP  
Planning Manager

Approved by:



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David Rizk, AICP  
Development Services Director

Attachments:

Attachment I: Map highlighting parcels to be sold

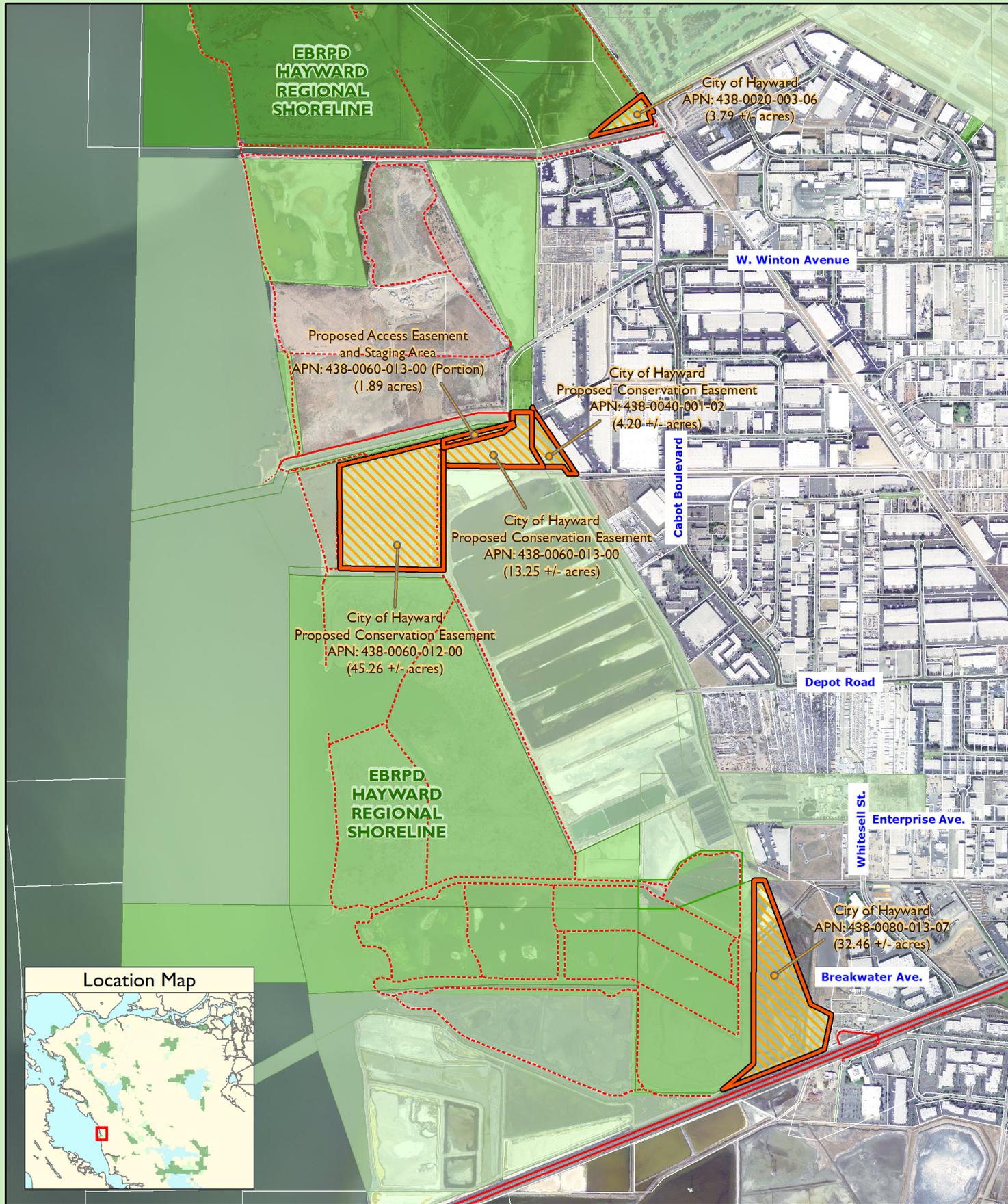
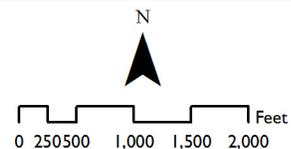
Attachment II: General Plan Land Use and Zoning Designations for Conservation  
and Access Easements Parcels



# HAYWARD REGIONAL SHORELINE City of Hayward Property

April 6, 2011  
Environmental Programs & GIS  
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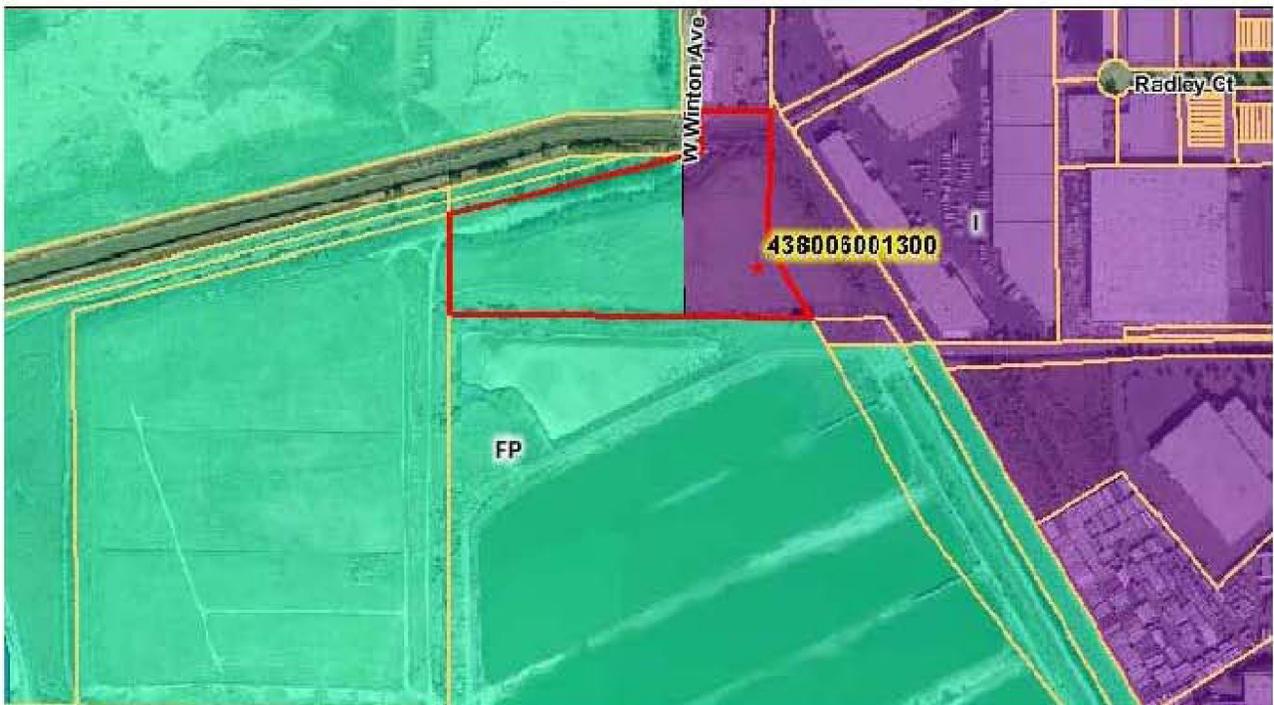
\* Parcel data for this map provided by Alameda County



General Plan Land Use Designations for Conservation/Access Easement Parcels



Zoning Designations for Conservation/Access Easement Parcels



**DATE:** October 6, 2011

**TO:** Planning Commission

**FROM:** Arlynn J. Camire, AICP, Associate Planner

**SUBJECT:** General Plan Amendment No. PL-2011-0301- Adoption of the Association of Bay Area Governments' Multi-Jurisdiction-Local Hazard Mitigation Plan ("Taming Natural Disasters") as the City's Local Hazard Mitigation Plan and an Implementation Appendix of the Conservation and Environmental Protection Element of the General Plan

## **RECOMMENDATION**

That the Planning Commission recommends that the City Council:

1. Finds the general plan amendment exempt from Section 15061(b)(3) California Environmental Quality Act Guidelines; and
2. Approves the General Plan Amendment adopting the Association of Bay Area Governments' "Taming Natural Disasters" as the City's Local Hazard Mitigation Plan to be an Appendix of the Conservation and Environmental Protection Element of the General Plan.

## **BACKGROUND**

The Federal Disaster Mitigation Act of 2000 (DMA 2000) seeks to "reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters; and to provide a source of pre-disaster hazard mitigation funding that will assist states and local governments in implementing effective hazard mitigation measures that are designed to ensure the continued functionality of critical services and facilities after a natural disaster." To be eligible to receive FEMA hazard mitigation funds, cities, counties, and special districts are required to adopt a Local Hazard Mitigation Plan (LHMP). A hazard mitigation plan identifies the hazards a community or region faces, assesses the vulnerability of communities or regions to the hazards, and identifies specific actions that can be taken to reduce the risk from such hazards. DMA 2000 allows a jurisdiction to prepare and adopt its own LHMP, or participate in a Multi-Jurisdictional Local Hazard Mitigation Plan (MJ-LHMP) that includes several jurisdictions within a region.

The State Legislature passed AB 2140, effective January 1, 2007, which limits the funding of the state share for certain disaster recovery projects funded with California Disaster Assistance Act unless the local agency has adopted a Multi-Jurisdictional Local Hazard Mitigation Plan (MJ-

LHMP). The Association of Bay Area Governments (ABAG) adopted “Taming Natural Disasters” as the Multi-Jurisdictional Local Hazard Mitigation Plan (MJ-LHMP) in 2005 and updates this plan every five years.

The Association of Bay Area Governments’ (ABAG’s) Multi-Jurisdictional Local Hazard Mitigation Plan (MJ-LHMP) involves local agencies throughout its nine-County jurisdiction. The overall strategy is to use this multi-jurisdictional effort to not only maintain and enhance the disaster response of our region, but also to fulfill the requirements of the Federal Disaster Mitigation Act of 2000. This MJ-LHMP gives Bay Area communities an opportunity to work together to be better prepared for disaster and become eligible for Federal disaster assistance. Each jurisdiction is required to submit a LHMP that contains hazard mitigation strategies as an Annex to the MJ-LHMP (“Taming Natural Disasters”). Then each jurisdiction adopts ABAG’s “Taming Natural Disasters” as an implementation appendix of the General Plan. By doing this, each jurisdiction commits to continuing to take actions, as appropriate, as identified in their Annex of the MJ-LHMP.

Many of the cities and counties in the Bay Area adopted the 2005 MJ-LHMP. Hayward did not participate in the 2005 Plan. Although the City of Hayward in 2005 supplied ABAG with information on City-owned critical facilities as part of this effort, it did not complete an Annex to the MJ-LHMP. Cities that did not participate in 2005, such as Hayward, are eligible to participate in ABAG’s current regional process. In 2009, with a letter from the City Manager, the City of Hayward committed to this process (Attachment II). Cities such as Alameda, Albany, Concord, Fremont, Livermore, Oakland, Pleasanton, Richmond and San Leandro participated in 2005 and are participating in 2010. Dublin, like Hayward, is participating for the first time.

## **DISCUSSION**

The City Council most recently adopted as a FY12 priority to, “Complete and adopt a Multi-Jurisdictional Local Hazard Mitigation Plan” as part of keeping the City of Hayward “Safe”. In June 2009, the City of Hayward committed to be a participating jurisdiction in the ABAG Multi-Jurisdictional Local Hazard Mitigation Planning process. Each department assigned staff to participate as a planning team in that process. Staff collaborated in identifying mitigation strategies, prioritizing the strategies, and reviewing preliminary budgets and potential funding sources for strategies designated as “High” priority for City-owned and -operated facilities.

The MJ-LHMP identifies local hazards to City owned infrastructure and strategies to mitigate these hazards. Included are threats posed by earthquake shaking and liquefaction, landslides, wildfire, dam inundation, floods, sea-level rise, and drought. In 2009, City staff prepared strategies to address potential threats and prioritized the mitigation strategies. Following the acceptance of the strategies by ABAG, the Local Hazard Mitigation Plan-Hayward Annex document of the MJ-LHMP was prepared and submitted for ABAG and Federal Emergency Management Agency (FEMA) review and approval. ABAG anticipates FEMA approval prior to City Council review and approval.

The purpose of the strategies document is to serve as a catalyst for dialog on public policies needed to mitigate the effects of natural hazards that affect the San Francisco Bay Area. The strategies are incorporated into the MJ-LHMP, Hayward Annex (Attachment III). The Annex describes the

regional planning process and the City compliance process; contains a hazards assessment including a history of local and regional disasters; contains a risk assessment by type of hazard the effects on City infrastructure; discusses compliance to the National Flood Insurance Program; discusses mitigation goals and objectives; sets hazard mitigation priorities and actions; and discusses future and on-going mitigation strategy programs. Also included is a discussion of the Hayward LHMP monitoring process, and an update process that requires annual review and update of mitigation strategies directed by the Executive Team comprised of the City Manager, the Assistant City Manager and Department Directors.

Following FEMA approval of the Annex document, the City of Hayward is required to adopt the “Taming Natural Disasters” Multi-Jurisdictional Local Hazard Mitigation Plan as part of its General Plan to assure Hayward receives disaster mitigation and recovery project funding. The MJ-LHMP will be Appendix P and will be referenced in the Conservation and Environmental Protection Element of the General Plan (Attachment IV).

*Findings for Adoption of the Multi-Jurisdiction Local Hazard Mitigation Plan -*

The Planning Commission shall make a recommendation to the City Council based on the following findings:

**Substantial proof exists that the proposed general plan amendment will promote the public health, safety, public convenience, and general welfare of the residents of Hayward.**

The adoption of the Multi-Jurisdictional Local Hazard Mitigation Plan as an implementation appendix of the Conservation and Environmental Protection Element of the General Plan will incorporate disaster mitigation into the general plan and specifies methods of implementation of disaster mitigation.

**The general plan amendment is in conformance with the purposes of the Zoning Ordinance, Federal and State Code, and all applicable, officially adopted policies and plans.**

The adoption of the Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area as an implementation appendix of the Conservation and Environmental Protection Element of the General Plan meets the requirements of the Federal Disaster Mitigation Act of 2000 and the requirements of Assembly Bill 2140 which require the adoption of a Local Hazard Mitigation Plan for the City of Hayward to receive hazard mitigation and recovery funding. In addition, adoption will meet the policies contained within the City of Hayward Hazardous Materials Area Plan, City of Hayward Comprehensive Emergency Management Plan, the Historic Preservation Ordinance, the Hayward Executive Airport Master Plan, the City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, the Flood Plain Management Ordinance, the City of Hayward Climate Action Plan and City of Hayward General Plan.

## **ENVIRONMENTAL REVIEW**

The adoption of the MJ-LHMP as part of the Conservation and Environmental Protection Element of the City of Hayward General Plan does not have the potential for causing a significant effect on

the environment, therefore action is categorically exempt from the California Environmental Quality Act pursuant to Section 15061(b)(3) of the Guidelines, Review For Exemption, which provides that projects that do not have the possibility of causing a significant threat to the environment are not subject to CEQA.

## **PUBLIC CONTACT**

The City of Hayward held a noticed public workshop on September 21, 2009 to allow public review of a draft mitigation strategies matrix. This matrix was made available on the City of Hayward website for a month for public review. A notice of the meeting was published in the newspaper and mailed to homeowner associations, mobile home park groups, neighborhood taskforces, local environmental protection organizations, and community organizations. Three community members attended the 2009 meeting and provided input, which has been incorporated into the attached Annex document.

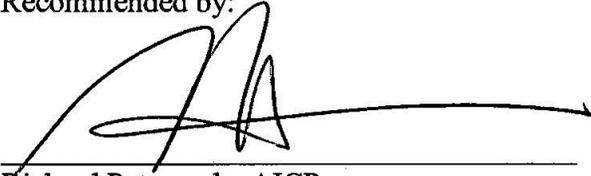
The notice of this hearing was published on September 24, 2011 in *The Daily Review* newspaper. No public comments have been received in response to such notice.

## **SCHEDULE**

The City of Hayward Annex was submitted to the Association of Bay Area Governments (ABAG) for final FEMA review in August 2011. ABAG staff anticipates approval of the Hayward Annex. Should the Commission recommend that Council approve the General Plan Amendment and Annex document, staff will forward such recommendation to City Council consideration at its November 1, 2011 meeting.

Prepared by: Arlyne J, Camire, AICP, Associate Planner

Recommended by:



Richard Patenaude, AICP  
Planning Manager

Approved by:



David Rizk, AICP  
Development Services Director

Attachments:

|                |                                    |
|----------------|------------------------------------|
| Attachment I   | Findings for Recommending Approval |
| Attachment II  | Letter of Commitment               |
| Attachment III | Hayward Annex                      |
| Attachment IV  | Proposed General Plan Amendment    |

**CITY OF HAYWARD**  
**FINDINGS FOR RECOMMENDING APPROVAL**  
**October 6, 2011**  
**General Plan Amendment No. PL-2011-0301**  
**Adoption of Taming Natural Disasters as Appendix P of the**  
**Conservation and Environmental Protection Element**  
**of the City of Hayward General Plan**

**FINDINGS FOR APPROVAL**

1. The general plan amendment will not have a significant impact on the environment pursuant to the California Environmental Quality Act. Approval of General Plan Amendment No. PL-2011-0301 incorporating the ABAG report “*Taming Natural Disasters*” as the Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area in the Conservation and Environmental Protection Element of the City of Hayward General Plan does not have the potential for causing a significant effect on the environment, therefore action is categorically exempt from the California Environmental Quality Act pursuant to Section 15061(b)(3) of the Guidelines, Review For Exemption.
2. Substantial proof exists that the proposed general plan amendment will promote the public health, safety, public convenience, and general welfare of the residents of Hayward in that the adoption of the Multi-Jurisdictional Local Hazard Mitigation Plan as an implementation appendix of the Conservation and Environmental Protection Element of the General Plan will incorporate disaster mitigation into the general plan and specifies methods of implementation of disaster mitigation.
3. The general plan amendment is in conformance with the purposes of the Zoning Ordinance, Federal and State Code, and all applicable, officially adopted policies and plans in that the adoption of the Multi-Jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area as an implementation appendix of the Conservation and Environmental Protection Element of the General Plan meets their requirements of the Federal Disaster Mitigation Act of 2000 and the requirements of Assembly Bill 2140 which require the adoption of a Local Hazard Mitigation Plan for the City of Hayward to receive hazard mitigation and recovery funding. In addition, adoption will meet the policies contained within the City of Hayward Hazardous Materials Area Plan, City of Hayward Comprehensive Emergency Management Plan, the Historic Preservation Ordinance, the Hayward Executive Airport Master Plan, the City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, the Flood Plain Management Ordinance, the City of Hayward Climate Action Plan and City of Hayward General Plan.



CITY OF  
**HAYWARD**  
HEART OF THE BAY

June 15, 2009

Henry Gardner  
Executive Director  
Association of Bay Area Governments  
P.O. Box 2050  
Oakland, CA, 94604

Re: Letter of Commitment as participating jurisdiction in City of Hayward Multi-jurisdictional Hazard Mitigation Planning

Dear Mr. Gardner,

As the Federal Emergency Management Agency's (FEMA) Local Mitigation Plan requirements under 44 CFR §201.6 specifically identify criteria that allow for multi-jurisdictional mitigation plans and that many issues are better resolved by evaluating hazards more comprehensively by coordinating at the county, regional, or watershed level, the City of Hayward is submitting this letter of commitment to confirm that City of Hayward has agreed to participate in the Association of Bay Area Governments (ABAG) Multi-jurisdictional Hazard Mitigation Planning.

Further, as a condition to participating in the mitigation planning; City of Hayward agrees to meet the requirements for mitigation plans identified in 44 CFR §201.6 and to provide such cooperation as is necessary and in a timely manner to ABAG to complete the plan in conformance with FEMA requirements.

City of Hayward understands that it must engage in the following planning process, as more fully described in FEMA's Local Multi-Hazard Mitigation Planning Guidance dated July 1, 2008, including, but not limited to:

- Identification of hazards unique to the jurisdiction and not addressed in the master planning document;
- The conduct of a vulnerability analysis and an identification of risks, where they differ from the general planning area;
- The formulation of mitigation goals responsive to public input and development of mitigation actions complementary to those goals. A range of actions must be identified specific for each jurisdiction. ;
- Demonstration that there has been proactively offered an opportunity for participation in the planning process by all community stakeholders (examples of participation include relevant involvement in any planning

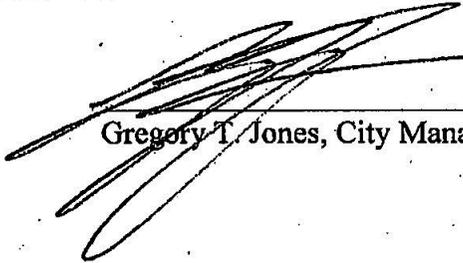
Office of the City Manager

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- process, attending meetings, contributing research, data, or other information, commenting on drafts of the plan, etc.); and
- Documentation of an effective process to maintain and implement the plan; and,
  - Presentation of the Multi-jurisdictional Hazard Mitigation Plan for consideration and adoption by the jurisdiction's governing body (each jurisdiction must officially adopt the plan).

Therefore, with a full understanding of the obligations incurred by participating in the FEMA hazard mitigation planning process as a participant in a multi-jurisdictional plan; I Gregory T. Jones, commit City of Hayward to the Association of Bay Area Governments (ABAG) Multi-jurisdictional Hazard Mitigation Planning effort.

Executed this 12<sup>th</sup> day of June 2009



\_\_\_\_\_  
Gregory T. Jones, City Manager



CITY OF  
**HAYWARD**  
HEART OF THE BAY

Annex to 2010 Association of Bay  
Area Governments  
Local Hazard Mitigation Plan  
*Taming Natural Disasters*

City of Hayward



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## Introduction

Hayward is known as the “Heart of the Bay” because of its central and convenient location in Alameda County, in the East Bay, 25 miles southeast of San Francisco, and 14 miles south of Oakland. The 62.5 square miles, with a population of approximately 153,104 (January 1, 2010) is serviced by an extensive network of freeways and bus lines, two Bay Area Rapid Transit stations (Hayward and South Hayward), an Amtrak station, a Greyhound bus station, and the Hayward Executive Airport. The City of Hayward has a 2010-2011 FY operating budget of \$224.6 million and employs 843 employees. City services include, fire, police, animal services, water distribution, water treatment, sewer, library, building, planning, recreational, and community development. The City currently owns and occupies approximately 1,389 acres of land which is developed with various City facilities and leased buildings. Facilities include the Hayward Executive Airport (543-acres), City Hall, Police Department, nine fire stations and fire training center, Water Treatment facility, Facilities and Corporate Yard, Equipment Division, Streets Division, Landscape Division, Water Distribution, Utilities/Water Pollution Control Facility, two libraries, and an Animal Shelter. The City leases hangars, commercial space, and a public golf course at the Hayward Executive Airport and leases a public golf course in south Hayward. A map of the City of Hayward’s jurisdictional boundary is provided in **Exhibit A**.

## The Regional Planning Process

The City of Hayward participated in the regional planning process in 2005 with the Finance Director’s and Senior Planner’s attendance at an ABAG Multi-Jurisdictional Local Hazard Mitigation Plan (MJ-LHMP) workshop. After meetings with the City Manager and the Public Works Director, the City decided not to participate in the 2005 process due to lack of resources. However, in 2009, with a commitment letter from the City Manager, the City of Hayward is fully committed to this process.

The City of Hayward participated in various ABAG workshops, conferences, and meetings, including:

- City Staff, including the Fire Department Public Education Officer and a Senior Planner, attended the kick-off meeting.
- City-County Workshop (2)
- Building Officials Workshop (1) on July 1, 2009
- Flooding Workshop (1) on July 7, 2009

For more information on these meetings and for rosters of attendees, please see Appendix A and H in the ABAG Multi-Jurisdictional Local Hazard Mitigation Plan 2010 (MJ-LHMP). In addition, the City of Hayward has provided information on facilities that are defined as “critical” to ABAG.



## The Local Planning Process

In June 2009, the City of Hayward made a commitment as a participating jurisdiction in the ABAG Multi-Jurisdictional Local Hazard Mitigation Planning process. To fulfill that commitment, the City Manager requested that each department assign staff to a planning team. Development Services Department, Planning Division was assigned to facilitate the process. At the first meeting, general priorities and appropriate departments were identified. During August 2009, City staff met internally to review draft mitigation strategies and ranked the importance of each strategy. At subsequent meetings discussion included the identified mitigation strategies, prioritized of the strategies, and review preliminary budgets and potential funding sources for strategies designated as “High” priority for City owned- and-operated facilities.

No formal meeting agendas, minutes, or sign-in sheets were prepared during this part of the process. City staff met in a collaborative approach to identify and review the various elements of the process. Staff communications also included email exchanges and discussion.

On September 21, 2009, a public workshop was held to review the regional Draft Strategies Matrix. As part of the public review process, this matrix was published on the City of Hayward site for a month. A notice of the meeting was mailed to the Chamber of Commerce, homeowner associations, mobile home park groups, neighborhood taskforces, local environmental protection organizations, community organizations (Appendix B). The notice of the meeting was published on September 15, 2009 in the Daily Review (Appendix B). Three members of the public attended the meeting. Staff didn’t receive comments generated from posting the Draft Strategies Matrix on the City website. The proposed strategies and proposed alternatives were submitted for review to ABAG staff in October 2009.

The objective of public participation, the public workshop and publishing the Draft Strategies Matrix on the website was to educate the public about the LHMP, the strategies and the process and to gather public input for the prioritization of the strategies. Public participation was minimal. The priorities of the three people who attended the public workshop are the storing of emergency supplies, protection from wildfires, concerns that strategies be based on experience of past earthquakes, and the surgical capacity of facilities in the City. All have been addressed in the strategies in the plan. In addition, the Fire Department regularly hosts Community Emergency Response Team (CERTS) training for Hayward and Fairview area residences and businesses that address these concerns.

In preparation for completion of the Hayward Annex, staff attended the August 18, 2010 ABAG MJ-LHMP Annex Writing workshop in Oakland. Arlynn J. Camire, Associate Planner, was the lead staff for the 2010 City of Hayward LHMP Annex. She facilitated the study and had oversight of the compilation of data and completion of this plan.

Staff involved in planning meetings and who contributed to the plan includes:



- Fran David, City Manager, assisted the City Council with setting the top priorities of the City Council that directs staff to complete the multi-jurisdictional Local Hazard Mitigation Plan and for City Council to adopt the plan as part of keeping the City of Hayward Safe.
- Craig Bueno, Fire Chief, appointed Fire Department staff to review and rank strategies that are the responsibility of the Fire Department to execute and maintain. He is also the coordinator of the City's Emergency Operations Center.
- Jon Moser, Deputy Fire Chief, Special Operations, participated in meetings, reviewed and revised the Draft Strategies Matrix.
- Garrett Contreras, Deputy Fire Chief is in charge of support services and the Emergency Operations Center.
- Thor Poulsen, Staff Captain, Public Education Officer, facilitated the Fire Department's participation as a planning team member. He completed the Fire Department Strategies and contributed to the review and writing of the Hayward Annex. He is responsible for all emergency response planning and preparations. In addition, he is in-charge of the Hayward Fire Department Emergency Services Office, all public education regarding disaster preparedness and on-going community involvement with the Hayward Annex.
- Bob Palermini, Police Captain, participated as a planning team member and contributed to the review of this Annex.
- Robert Bauman, Public Works Director participated as a planning team member, provided input on the strategies and reviewed and contributed to the Hayward Annex.
- Lloyd Partin, former Hayward Executive Airport Manager participated as a planning team member and provided input for the strategies.
- Vic Avila, Building and Facilities Manager participated as a planning team member and provided lists of critical facilities.
- Scott Estes, former Equipment Manager participated as a planning team member and provided information regarding the City of Hayward vehicle fleet and its capacity.
- Brian Spore, Surveyor in the Public Works Department provided input on Flood information.
- Richard Patenaude, Planning Manager, participated as a planning team member, facilitated the public meeting for the review of the Draft Strategies Matrix, and accepted public comments.
- Glenn Martinez, Building Official, participated as a planning team member and contributed to the Draft Strategies Matrix.
- David Korth, Neighborhood Services Manager in the City Manager's Office, participated as a planning team member, contributed to the Draft Strategies Matrix and contributed and reviewed the Hayward Annex.
- Erik Pearson, Senior Planner participated as a planning team member and attended ABAG workshops in preparation for the process.
- Chris Gillis, Graphics/Planning Technician provided maps and data for sea level rise.
- Maureen Conneely, Assistant City Attorney reviewed the process and the City of Hayward's obligations for the adoption of the LHMP as part of the City of Hayward General Plan.

This staff planning team reviewed the proposed Strategy Matrix and provided comments and rankings on the suitability of the strategies and policies for Hayward. The planning team identified mitigation



strategies, prioritized strategies, and reviewed preliminary budgets and potential funding sources for strategies designated as “High” priorities for City-owned and operated facilities and City programs.

### ***Process for Updating Plan Sections***

The City of Hayward attended 2005 ABAG Multi-Jurisdictional Local Hazard Mitigation Plan workshops but did not complete an Annex. All of the policies and strategies that have been examined and presented in this document are exclusive to the 2010 ABAG process. This 2010 Annex does incorporate the new ABAG data on hazards susceptibility, updated risk assessment with data from ABAG, and the 2010 planning process.

### ***Review of Existing Reports, Studies, and Plans***

The following documents are incorporated into the Hayward Annex in addition to those referenced in Appendix A of the regional plan.

| <b>Existing plans, studies, reports and technical information</b>                                                                                                                             | <b>Method of incorporation into the jurisdiction annex</b> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| City of Hayward Hazardous Materials Area Plan and Hazardous Materials Map, February 2007                                                                                                      | Hazards Assessment and priority mitigation actions         |
| City of Hayward Comprehensive Emergency Management Plan, May 6, 2004                                                                                                                          | Mitigation Strategies                                      |
| Historic Preservation Ordinance, June 1, 2010                                                                                                                                                 | Mitigation Strategies                                      |
| Hayward Executive Airport Master Plan, April 16, 2002                                                                                                                                         | Hazards Assessments and Mitigation Strategies              |
| Hayward Executive Airport Layout Plan, April 2010                                                                                                                                             | Hazards Assessments and Mitigation Strategies              |
| City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, February 16, 1993                                                                                                    | Mitigation Strategies                                      |
| Flood Plain Management Ordinance, September 23, 2008                                                                                                                                          | Hazards Assessment and Mitigation Strategies               |
| City of Hayward Climate Action Plan                                                                                                                                                           | Mitigation Strategies and Data                             |
| Preliminary Study of the Effect of Sea Level Rise on the Resources of the Hayward Shoreline, HHASPA Sea Level Rise Study, Prepared for the Hayward Area Shoreline Planning Agency, March 2010 | Mitigation Strategies and Data                             |
| Hayward General Plan and Hazard Maps                                                                                                                                                          | Hazard Assessments and Mitigation Strategies               |



## **Public Meetings**

The City of Hayward held a public workshop on September 21, 2009 to review Draft mitigation strategies Matrix. This matrix was published on the City of Hayward website for a month for public review. A notice of the meeting was mailed to homeowner associations, mobile home park groups, neighborhood taskforces, local environmental protection organizations, community organizations (**Exhibit B**). The notice of the meeting was published on September 15, 2009 in the Daily Review (**Exhibit B**). Community comments have been incorporated in this plan. No public comments were available through the request for comments through the Hayward website.

The City Council will adopt the plan in a public meeting by an official Resolution upon approval by FEMA. The mitigation strategies will become an implementation appendix of City of Hayward General Plan.

## **Hazards Assessment**

The ABAG Multi-Jurisdictional Local Hazard Mitigation Plan, to which this is an annex, lists nine hazards that impact the Bay Area, seven related to earthquakes (faulting, shaking, earthquake-induced landslides, liquefaction, dam inundation and tsunamis) and four related to weather (flooding, landslides, wildfires, and drought). These hazards also impact the City of Hayward and have been analyzed in this document. Maps of these hazards and risks are shown on the ABAG website at <http://quake.abag.ca.gov/mitigation> and in Appendix L of the Hayward General Plan.

In addition, the City of Hayward has a large industrial area which is monitored by the Hazardous Materials Program within the Fire Department. The City is a Certified Unified Program Agency (CUPA), in that it is qualified to handle multiple hazardous material issues that normally are under County or State of California jurisdiction. The City of Hayward Hazardous Materials Area Plan and Hazardous Materials Map assess and address potential incidents.

The City of Hayward has reviewed the hazards identified and ranked the hazards based on past disasters and expected future impacts. The conclusion is earthquakes (particularly shaking), flooding, wildfire, landslides (including slope and ground instability), water inundation (from upstream dam failure or a tsunami), and hazardous materials pose a significant risk for potential loss.

The Hayward Fault traverses the City of Hayward in a northeast to southwestern direction parallel to the base of the Hayward Hills and Mission Boulevard. The last major earthquake on the Hayward fault was on October 21, 1868. United States Geological Survey scientists describe the Hayward fault as a tectonic time bomb, due anytime for another magnitude 6.8 to 7.0 earthquake. A major earthquake on the Hayward Fault continues to poise a 62% probability of a 6.7 or greater in the next 30 years.



The eastern portion of Hayward is located on steep, hill terrain with sections underlain by geologic materials prone to slope instability which can cause landslides and ground failure. This can result from earthquakes, wet weather, weak soils, improper grading, improper drainage, steep slopes, adverse geologic structure, or a combination of any of these factors. Landslides and debris flows can result in damage to property and cause structures to become unsafe either due to distress or collapse during sudden or gradual slope movement. The City of Hayward Hillside Design Guidelines require special grading, special foundation design and/or site modifications to mitigate steep slope conditions to reduce the potential for slope instability.

Water Inundation is a hazard associated with earthquakes and may result from dam failure or a tsunami. The City of Hayward does not contain dams or open reservoirs; however the potential for water inundation may occur from upstream dam or reservoir failure. The South Reservoir located in an unincorporated portion of Alameda County known as Castro Valley could affect small areas at the northeastern edge of Hayward. Inundation from Del Valle and other dams along Alameda Creek would be limited to the shoreline salt evaporation ponds south of Old Alameda Creek. Areas most likely to be inundated by water rise from a tsunami are marshlands, tidal flats, and former bay margin lands.

Federal Emergency Management Agency maps indicate that certain portions of the industrial corridor are potentially to flooding. The City of Hayward participated in the Federal Insurance Program that provides flood insurance to residences and businesses in flood hazard areas. A minor rise in the bay is anticipated due to the effects of global warming but it is anticipated to have a minimal affect on the same areas of the City affected by a tsunami.

By standard practice, each development project application is reviewed for potential impacts of natural disasters. All projects are subject to California Environmental Quality Act review and required to meet California Building Code, California Fire Code, and Hayward Municipal Code. In some cases, the City requires specific mitigation to eliminate or mitigate impact from these disasters. This information has been incorporated into the strategies matrix submitted to ABAG and FEMA.

While the City of Hayward has undertaken a number of general hazard mapping activities since the General Plan, Conservation and Environmental Protection Element and Public Utilities and Services Element adopted March 12, 2002, all of these maps are less detailed and are not as current as those shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

## **Past Occurrences of Disasters (natural and human-induced)**

Disaster in Hayward's recent past has been relatively limited. Therefore, the Hayward Fire Department has not as of yet, experienced a significant incident that has impacted the city beyond normal mutual aid capabilities due to an earthquake. Hayward Fire Department responded to incidents resulting from the 1989 Loma Prieta earthquake but City was not severely impacted.



The City of Hayward did not have any reported injuries, deaths or displacements of residents or businesses. Damage sustained to homes and businesses was minor. However, Hayward City Hall sustained damage and City Hall operations were moved to temporary offices in anticipation of the completion of the current City Hall that was completed in 1998.

More information on State and Federally declared disasters in Hayward can be found at <http://quake.abag.ca.gov/wp-content/documents/ThePlan-D-2011.pdf>

In years past, El Nino events with marked impact (including “Pineapple Express” weather events of 1986, and 1997) required Hayward Fire Department to respond to flooding and landslides resulting from severe weather. These events are found on related NOAA and FEMA websites.

Hayward Fire Department responded to mutual aid requests to assist with the 1991 Oakland Hills fire in addition to other significant mutual aid emergencies outside the city of Hayward. Mutual aid provided by Hayward Fire Department during California wildfires alone, provided 1,836 hours of firefighting outside of Hayward impacting local emergency callback for Hayward personnel and possible coverage for residents.

The City of Hayward has not experienced occurrences of major natural disasters over the past five years. However, one of the most common threats in the City of Hayward is hillside urban wildfires. On August 2, 2011, the Hayward Fire Department requested mutual aid to suppress a vegetation fire in the Hayward Hills just southeast of the Stonebrae Country Club. Two fixed winged aircraft, and two helicopters from Cal-Fire and East Bay Regional Parks department responded via air with Dozers and hand crews on the ground coming from Hollister and Santa Clara. The Alameda County Fire Department brought equipment and personnel into the Hayward Fire stations to backfill. This is the most significant incident that has occurred within the past 5 year period.

The eastern section of Hayward in the hillside also has areas susceptible to landslide. The Hayward General Plan identifies slope instability areas and occasionally, following incidents of heavy rain, minor landslides will occur. In addition, minor land slippage occurs under some residential structures that were constructed with engineered design features in anticipation of such events. These events do not result in Fire Department response and in very few cases were residents affected.

## **Risk Assessment**

### ***Urban Land Exposure***

The City of Hayward examined the hazard exposure of the City of Hayward urban land based on information in ABAG’s website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. The “2005



*Existing Land Use with 2009 Mapping*” file was used for this evaluation (in the existing plan, the file used was “*Existing Land Use in 2000*”).

In general, the hazard exposure of the City of Hayward is increasing over time as the amount of urban land increases. In the last 5 years, 2,560 acres of urban land has been annexed into the city from Alameda County. A majority of the area of in the 100 year flood zone is in marsh and salt evaporation ponds adjacent to San Francisco Bay. The following table described the exposure of urban land within the City of Hayward to the various hazards.

The General Plan Conservation and Environmental Protection Element identifies the Hayward fault as one of the most hazardous faults in the United States because of its high slip rate, its demonstrated ability to generate a large earthquake and, most importantly its location through the highly urbanized eastern San Francisco Bay Area. The southern segment of the Hayward fault lies along the southwestern margin of the East Bay Hills. It has been determined that the fault is capable generating a maximum earthquake of Mw 6.9. The Hayward fault accumulates strain at one of the highest rates of all the faults within the San Francisco Bay region. It is the greatest concern for Hayward because the potential to damage to our developed urban area; infrastructure, services, and structures. The Hayward Fault is the single most urbanized earthquake fault in the United States—in 1868 there were only 24,000 people living near the fault in Alameda County, now there are more than 2.4 million. Hundreds of homes and other structures are built directly on the fault’s trace, and mass transit corridors, major freeways, and many roadways cross it at numerous locations.

According to the Working Group on California Earthquake Probabilities (1999) there is a 32% probability for the occurrence of a large earthquake by 2029 on the Hayward-Rogers Creek fault system.

In 1868 the southern segment experienced a 6.8 magnitude earthquake that caused extensive damage to downtown Hayward. A surface rupture extended along the Hayward fault zone from Oakland to the Warm Springs District of Fremont. A repeat of the 1868 earthquake could cause economic losses (including damage to buildings and contents, business interruption, and living expenses) exceeding \$120 billion, with more than 90% of both residential and commercial losses being uninsured. Also, damage to infrastructure and other long-term economic effects could substantially increase the total losses.

Other potentially active faults within Hayward include the Chabot fault, the Carlos Bee fault, and several unnamed secondary faults adjacent to the Chabot and Hayward faults.



| Exposure (acres of urban land)                                                 |                |                |        |
|--------------------------------------------------------------------------------|----------------|----------------|--------|
| Hazard                                                                         | Plan Year 2005 | Plan Year 2010 | Change |
| <i>Total Acres of Urban Land</i>                                               | 19,200         | 21,760         | 2,560  |
| Earthquake Faulting (within CGS zone)                                          |                | 618            |        |
| Earthquake Shaking (within highest two shaking categories)                     |                | 17,086         |        |
| Earthquake-Induced Landslides (within CGS study zone)                          |                | 1,038          |        |
| Liquefaction (within moderate, high, or very high liquefaction susceptibility) |                | 13,998         |        |
| Flooding (within 100 year floodplain)                                          |                | 3,113          |        |
| Flooding (within 500 year floodplain)                                          |                | 1,765          |        |
| Landslides (within areas of existing landslides)                               |                | 351            |        |
| Wildfire (subject to high, very high, or extreme wildfire threat)              |                | 811            |        |
| Wildland-Urban Interface Fire Threat                                           |                | 6,597          |        |
| Dam Inundation (within inundation zone)                                        |                | 4,172          |        |
| Sea Level Rise <sup>1</sup>                                                    |                |                |        |
| Tsunamis (within inundation area) <sup>2</sup>                                 |                | 200            |        |
| Drought <sup>3</sup>                                                           | 19,200         | 21,760         | 2,560  |

## Infrastructure Exposure

The City of Hayward also examined the hazard exposure of infrastructure within the jurisdiction based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. There are 460 miles of roads that include 23 miles of interstate highway (Highway 880), 64 miles of highway (State Highway 92), 317 miles of local and private roads, 32 miles of miscellaneous ramps and roadways in the City of Hayward. The following table summarizes the exposure of infrastructure, including roadways, transit and rail to the various hazards. Critical regional gas and water pipelines and electrical transmission lines cross the fault in the City of Hayward. A September 2007 U.S. Bureau of Labor Statistics Report determined that more than 1.5 million people with combined annual wages exceeding \$100 billion work at sites that would experience strong or very strong levels of shaking from the next powerful Hayward Fault quake. According to a 1996 Earthquake Engineering Research Institute report, the next major Hayward Fault quake is expected to cause significant loss of life and extensive damage to homes, businesses, and infrastructure, such as transportation and utilities. Several

<sup>1</sup> The sea level rise maps show that the sea level is not anticipated to rise into urban areas. Preliminary Study of the Effect of Sea Level Rise on the Resources of the Hayward Shoreline, HHASPA Sea Level Rise Study, Prepared for the Hayward Area Shoreline Planning Agency, March 2010.

<sup>2</sup> Calculated by use of ABAG Tsunamis map and City of Hayward GIS.

<sup>3</sup> The entire City of Hayward is subject to drought.



hundred thousand people are likely to be homeless after the quake. In addition, fault creep occurs along the entire length of the fault resulting in slow but persistent damage to infrastructure. The rate of creep deformation along the southern segment of the Hayward fault in Hayward is about 5 millimeters per year which is roughly 2 inches every 10 years.

| Hazard                                                                                        | Exposure (miles of infrastructure) |                   |                   |
|-----------------------------------------------------------------------------------------------|------------------------------------|-------------------|-------------------|
|                                                                                               | Roadway                            | Transit           | Rail              |
|                                                                                               | Plan Year<br>2010                  | Plan Year<br>2010 | Plan Year<br>2010 |
| <i>Total Miles of Infrastructure</i>                                                          | 460                                | 12                | 28                |
| Earthquake Shaking (within highest two shaking categories)                                    | 427                                | 12                | 28                |
| Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility) | 366                                | 12                | 28                |
| Liquefaction Hazard (within CGS study zone)                                                   | 288                                | 7                 | 22                |
| Earthquake-Induced Landslides (within CGS study zone)                                         | 4                                  | 0                 | 0                 |
| Earthquake Faulting (within CGS zone)                                                         | 17                                 | 0                 | 0                 |
| Flooding (within 100 year floodplain)                                                         | 17                                 | 1                 | 3                 |
| Flooding (within 500 year floodplain)                                                         | 54                                 | 1                 | 5                 |
| Landslides (within areas of existing landslides)                                              | 5                                  | 0                 | 0                 |
| Wildfires (subject to high, very high, or extreme wildfire threat)                            | 10                                 | 0                 | 0                 |
| Wildland-Urban Interface Fire Threat                                                          | 184                                | 4                 | 6                 |
| Dam Inundation (within inundation zone)                                                       | 76                                 | 1                 | 6                 |
| Sea Level Rise <sup>4</sup>                                                                   | N/A                                | N/A               | N/A               |
| Tsunamis <sup>5</sup>                                                                         | N/A                                | N/A               | N/A               |
| Drought <sup>6</sup>                                                                          | N/A                                | N/A               | N/A               |

<sup>4</sup> The sea level rise maps show that the sea level is not anticipated to rise into urban areas. Preliminary Study of the Effect of Sea Level Rise on the Resources of the Hayward Shoreline, HHASPA Sea Level Rise Study, Prepared for the Hayward Area Shoreline Planning Agency, March 2010.

<sup>5</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. Miles of exposed infrastructure is not an appropriate analysis for this hazard. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>6</sup> Drought is not a hazard for roadways.



## ***Exposure of City of Hayward Owned Buildings, Plus Critical Healthcare Facilities and Schools***

The City of Hayward examined the hazard exposure of critical health care facilities and schools located within the City and City-owned facilities based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickcrit2010.html>. The City of Hayward provided a list of the critical facilities it owns to ABAG. ABAG provided a detailed assessment of the hazard exposure of each of its facilities. The following number of facilities is exposed to the various hazards analyzed.



| Exposure (number of facility types)                                                           |                |                |                                   |                                        |
|-----------------------------------------------------------------------------------------------|----------------|----------------|-----------------------------------|----------------------------------------|
| Hazard                                                                                        | Hospitals      | Schools        | Locally owned critical facilities | Locally owned bridges and interchanges |
|                                                                                               | Plan Year 2010 | Plan Year 2010 | Plan Year 2010                    | Plan Year 2010                         |
| <i>Total Number of Facilities</i>                                                             | 2              | 51             | 74                                | 29                                     |
| Earthquake Shaking (within highest two shaking categories)                                    | 2              | 51             | 68                                | 29                                     |
| Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility) | 2              | 46             | 44                                | 28                                     |
| Liquefaction Hazard (within CGS study zone)                                                   | 0              | 3              | 7                                 | 1                                      |
| Earthquake-Induced Landslides (within CGS study zone)                                         | 0              | 3              | 7                                 | 1                                      |
| Earthquake Faulting (within CGS zone)                                                         | 0              | 0              | 5                                 | 0                                      |
| Flooding (within 100 year floodplain)                                                         | 0              | 0              | 0                                 | 0                                      |
| Flooding (within 500 year floodplain)                                                         | 0              | 6              | 4                                 | 5                                      |
| Landslides (within areas of existing landslides)                                              | 0              | 2              | 21                                | 1                                      |
| Wildfires (subject to high, very high, or extreme wildfire threat) <sup>7, 8, 9</sup>         | 0              | 1              | 6                                 | 0                                      |
| Wildland-Urban Interface Fire Threat <sup>10, 11</sup>                                        | 0              | 25             | 43                                | 11                                     |
| Dam Inundation                                                                                | 0              | 7              | 8                                 | 6                                      |
| Sea Level Rise (exposed to 16in sea level rise)                                               | 0              | 0              |                                   | 0                                      |
| Sea Level Rise (exposed to 55in sea level rise)                                               | 0              | 0              | 5                                 | 2                                      |
| Tsunamis <sup>12, 13</sup> (within inundation area)                                           | 0              | 0              | 1                                 | 0                                      |
| Drought <sup>14</sup>                                                                         | 2              | 51             | 72                                | 29                                     |

<sup>7</sup> Three Fire Stations are within the urban interface fire threat.

<sup>8</sup> One outbuilding on Walpert Ridge in extreme fire location contains repeaters for most of Hayward Police Department and Fire emergency city wide communication.

<sup>9</sup> Stonebrae Elementary lies within the High wildfire threat.

<sup>10</sup> Six other schools lie east of Mission Boulevard in an Urban Interface threat zone.

<sup>11</sup> Lack of sufficient water could affect facilities.

<sup>12</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>13</sup> Hayward's Water Treatment Plant outfall system may be affected by a Tsunami.

<sup>14</sup> Drought will not affect locally owned facilities directly.



## ***Repetitive Loss Properties***

According to ABAG 2011 Repetitive Flood Loss Property Data there is one residential property outside an identified flood plain in the City of Hayward that has sustained repetitive loss. This property has two claims with the total payment of \$25,797.84 with the average payment of \$12,898.92. This information is at <http://quake.abag.ca.gov/mitigation/pickflood.html>.

## ***Other risks***

The City of Hayward, Building Division plans to work with ABAG to improve the risk assessment information being compiled by ABAG, including developing ways to assess how many soft-story buildings are located in the City of Hayward. A program will be developed to assist property owners to reinforce at risk buildings.

The City plans to work with ABAG to develop specific information about the kind and level of damage to buildings, infrastructure, and critical facilities which might result from any of the hazards previously noted. The city does not anticipate identifying new risks from natural hazards, however, and ABAG data confirms that Hayward will face impacts from new concerns like sea level rise.

## **National Flood Insurance Program**

The City of Hayward has participated in the National Flood Insurance Program since March 1980. In 1981, the City Council adopted the Flood Plain Management Ordinance which promotes the public health, safety, and general welfare of Hayward residents and property owners. The Ordinance requires the City to continue to participate in the National Flood Insurance Program. The City updates their Flood Plain Management Ordinance periodically to assure FEMA compliance. In addition to FEMA maps, the City's GIS includes flood hazard area information that can be accessed on the City of Hayward website.

## **Mitigation Goals and Objectives**

The goal of the ABAG MJ-LHMP is to maintain and enhance a disaster-resistant region by reducing the potential for loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters. This is the goal of the City of Hayward in designing its mitigation program.



## **Mitigation Activities and Priorities**

### ***Evaluation of Progress from 2005 Plan***

The City of Hayward did not participate in the 2005 ABAG MJ-LHMP therefore; this plan does not contain an analysis of City of Hayward 2005 activities and priorities. The goal of the ABAG MJ-LHMP is to maintain and enhance a disaster-resistant region by reducing the potential for loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters. This goal is unchanged from the 2005 ABAG MJ-LHMP, and is the goal of the City of Hayward in designing its 2010 mitigation program.

### ***Future Mitigation Actions and Priorities***

As a participant in the 2010 ABAG multi-jurisdictional planning process, the staff of the City of Hayward developed and reviewed the comprehensive list of mitigation strategies in the overall multi-jurisdictional plan. The decisions on priorities made were based on a variety of criteria, not simply on an economic cost-benefit analysis. These criteria include technical and administrative feasibility, political acceptance, social appropriateness, legal compliance, economical soundness, and not harmful to the environment. The City of Hayward did not participate in the 2005 Local Hazardous Mitigation Plan, therefore this document contains strategies that have not been measured nor discussed. Representatives from City departments met to identify and prioritize 2010 mitigation strategies that are contained in Appendix C. Based on this staff level review, the City of Hayward planning team also prioritized specific mitigation tasks for the next 5 years.

The City's planning team reviewed the list of recommended mitigation activities. As part of the review, the City team identified the existing programs and activities which were completed or likely to continue. New programs not yet undertaken by the City were reviewed in light of the following factors:

- Hayward City Council's Priorities for Crime and Public Safety, Cleanliness, Land Use and Sustainability, Organizational Health, and Fiscal Stability.
- Priorities of the Fire Department Educational Program.
- Priorities of Neighborhood Services, Neighborhood Partnership Program.
- Potential impact, existing or projected, on the City of Hayward.
- Anticipated costs in funds or staff time.
- Informational cost/benefit analysis.
- Availability of non-City or non-General Fund financial support for the activity.



- Staff or institutional availability or capacity to complete the program or activity.

The draft priorities and the annex will be provided to the Planning Commission for review and for recommendation to the City Council for adoption pending approval of this Local Hazard Mitigation Plan by FEMA.

These strategies were identified during review of the ABAG regional matrix and were discussed in detail by the staff of the Fire Department, Planning Division, Neighborhood Services, Facilities, Public Works, and Building Division. Nine specific strategies are called out here. Listed after each of the strategy in the matrix are the abbreviations of the natural or human induced disasters that are addressed by each strategy. The codes for the natural and human made disasters are as follows:

EQ- Earthquake Shaking and Faulting  
LQ-Liquefaction  
FL-Flooding (100 & 500 year)  
LS-Landslides  
WF-Wildfire  
WUF-Wildland-Urban Interface Fire Threat  
DI-Dam Inundation  
SLR-Sea Level Rise  
TS-Tsunamis  
D-Drought  
C-Civil Unrest  
F-Fires  
HM-Hazardous Materials Incident  
ALL-Mitigation for all disasters

- Sponsor the formation and training of Community Emergency Response Teams (CERT) through partnerships with local businesses. The training will teach basic disaster response skills enabling local businesses and residences to assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help. CERT members also are encouraged to support emergency response agencies by taking a more active role in emergency preparedness projects in their community. The Fire Department is the responsible lead for this project. Grant funding is anticipated in FYs 2012-2015; (Government c-3, Economic j-5, Housing k-6, Infrastructure g-6). ALL
- Ensure that the Fire Department has adequate breathing apparatus, radios, protective gear and other equipment to respond to a major disaster, identified through resilient mitigation efforts lead by the Fire Department. Grant funding is anticipated to assist in the ongoing replacement and upgrade of clothing and systems in FYs 2011-2015; (Government c-6 & b-6). ALL



- Facilitate and/or coordinate the distribution of culturally appropriate materials related to emergency preparedness or mitigation that are prepared by others such as the Red Cross and ABAG, and making the use of the internet or other electronic means, and placing materials on community access channels or in city or utility newsletters, as appropriate. Both the Fire Department and Neighborhood Services will be involved in this education effort. Materials would be distributed at neighborhood meetings and to neighborhood and homeowner associations including neighborhood businesses. Grant funding will be sought in FYs 2011-2015; (Infrastructure g-5, Infrastructure g-7, Housing k-12, Economic j-2). ALL
- Train homeowners to locate and shut off gas valves if they smell or hear gas leaking. This will be accomplished by use of the City of Hayward website to display instructions and through the distribution of materials at neighborhood meetings, and to neighborhood and homeowner associations. Neighborhood Services is responsible for this program and is looking for funding for FYs 2011-2015; (Housing k-10). EQ, LQ, WUF
- Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <http://www.preparenow.org> website. This is a high priority for the Fire Department and Neighborhood Services. The materials would be distributed via neighborhood meetings / neighborhood associations. The goal is to have materials prepared by FY 2011-2012; (Housing k-16). ALL
- Create incentives for private owners of historic or architecturally significant commercial and industrial buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's *Guidelines for Rehabilitation*. This will aid in historic preservation within the City of Hayward while preserving housing stock and commercial structures. This will be completed by Development Services, Planning Division staff in beginning in FY 2011-2012. Funding will come from general fund (Economic a-2, Housing 2). EQ, LQ, F, WF,
- Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging private businesses and residents to keep storm drains in their neighborhood free of debris. This is a high priority project of Neighborhood Services. Funding for the project is anticipated for FYs 2012-2015. FL
- Using criteria developed by EPA for asset management, inventory existing assets, the condition of those assets, and improvements needed to protect and maintain those assets. Capture this information in a Geographic Information System (GIS) and use it to select locations for creek monitoring gauges. Funding is through the Capital Improvement Program. Public Works (Infrastructure d-18) ALL
- Adopt and enforce land-use policies that reduce sprawl, preserve open space, and create compact, walkable urban communities. Development Services/Planning Division Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128. Policies also exist in the General Plan adopted in 2002 (Environment b-3). ALL



## ***On-Going Mitigation Strategy Programs***

The City of Hayward has many on-going mitigation programs that help create a more disaster-resistant region. The following list highlights those programs identified as *Existing Programs* in the mitigation strategy spreadsheet. Others are on-going programs that are currently underfunded. It is the City's priority to find additional funding to sustain these on-going programs over time. Listed after each of the strategy in the matrix are the codes of the natural or human induced disasters that are addressed by each strategy. The abbreviations for the natural and human made disasters are as follows:

EQ- Earthquake Shaking and Faulting  
LQ-Liquefaction  
FL-Flooding (100 & 500 year)  
LS-Landslides  
WF-Wildfire  
WUF-Wildland-Urban Interface Fire Threat  
DI-Dam Inundation  
SLR-Sea Level Rise  
TS-Tsunamis  
D-Drought  
C-Civil Unrest  
F-Fires  
HM-Hazardous Materials Incident  
ALL-Mitigation for all disasters

- Inventory global warming emissions in the City of Hayward's operations and in the community, set reduction targets and create an action plan (Environment b-2). SLR
- Encourage new development near floodways to incorporate a buffer zone or setback from that floodway to allow for changes in stormwater flows in the watershed over time. (Land Use c-2). FL
- Regulate and enforce the location and design of street-address numbers on buildings and minimize the naming of short streets (that are actually driveways) to single homes (Government c-16). ALL
- Establish a framework and process for pre-event planning for post-event recovery that specifies roles, priorities, and responsibilities of various departments within the local government organization, and that outlines a structure and process for policy-making involving elected officials and appointed advisory committees (Government b-1). ALL
- As new flood-control projects are completed, request that FEMA revise its flood-insurance rate maps and digital Geographic Information System (GIS) data to reflect flood risks as accurately as possible (Government d-4). FL
- Participate in FEMA's National Flood Insurance Program (Government d-5). FL



- For purposes of creating an improved hazard mitigation plan for the region as a whole, ABAG, and Bay Area cities and counties, jointly request geographically defined repetitive flooding loss data from FEMA for their own jurisdictions. Development Services & Public Work- Engineering and Transportation (Land Use c-6) FL
- Work with major employers and agencies that handle hazardous materials to coordinate mitigation efforts for the possible release of these materials due to a natural disaster such as an earthquake, flood, fire, or landslide (Government d-7). HM, EQ, FL, F, LS
- Continue to require that all new privately-owned commercial and industrial buildings be constructed in compliance with requirements of the most recently adopted version of the California Building Code (Economic h-1). EQ, LQ, FL, LS, WUF, HM
- Conduct appropriate employee training and support continued education to ensure enforcement of construction standards and building codes for private development and FEMA retrofit standards (Housing b-4, f-2 & Economic h-2). EQ, LQ, FL, LS, WUF, HM
- Encourage joint meetings of security and operations personnel at major private employers to develop innovative ways for these personnel to work together to increase safety and security. This is completed on a case-by-case basis (Econ-j-11) ALL
- Require sprinklers in all mixed use development to protect residential uses from fires started in non-residential areas and require fire sprinklers in all new or substantially remodeled multifamily housing, regardless of distance from a fire station (Econ-g-12 and g-13). WF, WUF, F, EQ, LS
- Require that new homes in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat be constructed of fire-resistant building materials (including roofing and exterior walls) and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floors) to increase structural survivability and reduce ignitability. **Note** - See Structural Fire Prevention Field Guide for Mitigation of Wildfires at <http://osfm.fire.ca.gov/structural.html> (Housing g-3).WF, WUF
- Work to ensure a reliable source of water for fire suppression in rural-residential areas through the cooperative efforts of water districts, fire districts, and residents (Housing g-8). EQ,WF, WUF
- Balance the housing needs of residents against the risk from potential flood-related hazards (Housing h-2). FL
- Ensure that new private development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, *or* does not increase runoff by draining water to pervious areas or detention facilities (Housing h-3). FL
- Apply floodplain management regulations for private development in the floodplain and floodway (Housing h-6). FL
- Ensure that new subdivisions are designed to reduce or eliminate flood damage by requiring lots and rights-of-way are laid out for the provision of approved sewer and drainage facilities, providing on-site detention facilities whenever practicable (Housing h-7). FL



- Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards for private property, such as those appearing in the *California Building Code*, California Geological Survey *Special Report 117 – Guidelines for Evaluating and Mitigating Seismic Hazards in California*, American Society of Civil Engineers (ASCE) report *Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California*, and the California Board for Geologists and Geophysicists *Guidelines for Engineering Geologic Reports*. Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance (Housing i-1). LS
- Develop and enforce a repair and reconstruction ordinance to ensure that damaged buildings are repaired in an appropriate and timely manner and retrofitted concurrently. This repair and reconstruction ordinance should apply to all public and private buildings, and also apply to repair of all damage, regardless of cause.  
See <http://quake.abag.ca.gov/recovery/info-repair-ord.html> (Housing j-1). EQ
- Continue to develop and distribute appropriate materials related to disaster preparedness as on the City of Hayward website related to infrastructure issues <http://www.hayward-ca.gov/departments/fire/DP/disasterprep.shtm> (Infrastructure g-7, g-5, and Housing k-16, k-17). EQ,LQ, FL, LS, WF, WUF, DI, F, HM
- Install alert and warning systems for rapid evacuation or shelter-in-place. Such systems include outdoor sirens and/or upgraded GIS/reverse-911 calling systems (Government c-14, b-14, b-22). ALL
- Maintain and update as necessary the local government's Standardized Emergency Management System (SEMS) Plan and the National Incident Management System (NIMS) Plan for all fire department personnel, and submit an appropriate NIMSCAST report (Government c-12, b-12), Fire department, possible grant funding source, 2011-2015. EQ, LQ, FL, LS, WF, WUF, DI, C, F, HM
- Continue to develop printed materials, and utilizing existing materials (such as developed by FEMA, USGS and the American Red Cross), conduct workshops, and/or provide outreach encouraging residents to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines, Fire department, Underfunded issues and lack of personnel/expertise, possible grant funding availability (Housing-k-2, k-2). EQ, LQ, FL, LS, WF, WUF, DI, F, HM
- Inform residents of comprehensive mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in high wildfire threat and wildfire-urban-interface areas, structural retrofitting techniques for older homes, and use of intelligent grading practices through workshops, publications, and media announcements and events. Actively looking for funding sources FYs2011-2015 for continued education (Housing-k-3, k-3). EQ, LQ, FL, LS, WF, WUF, F



- Train homeowners to locate and shut off gas valves only if they smell, hear or obvious structural collapse concerning natural gas leaking. Underfunded, looking for additional funding sources. Possible grant funding available FYs 2011-2015 (Housing k-10, k-10) EQ, LQ, FL, LS, WF, WUF
- Identify ancillary health facilities in your community. Encourage these facility operators to develop disaster mitigation plans and to create, maintain, and/or continue partnerships with local governments to develop response and business continuity plans for recovery. Fire department funding still required (Health b-1, b-2, b-3, b-3). ALL
- Periodically assess the need and identify funding for capital improvements for new, aging or relocated fire stations and other emergency facilities. Periodically assess the need for changes in staffing levels, and additional or updated supplies, equipment, technologies, and in-service training classes for all fire personnel. Additional personnel required for continued oversight and funding source. (Government c-4, b-5 (a) and c-5, b-5 (b)). ALL
- Fire department to continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters Government c-13, b-13). EQ, LQ, FL, LS, WF, WUF, DI, C, F, HM
- Participate in developing and maintaining a system of interoperable communications for first responders from cities, counties, special districts, state, and federal agencies including the incorporation of amateur radio operators into the communication system and the emergency operations center (Government c-7, b-7). ALL
- Increase local patrolling during periods of high fire weather. The fire department in accordance with National Weather Service guidelines in conjunction with local SOP's, coordinates with local open space park staff to close local open space parks during red flag danger periods. Fire department to initiate increased staffing of fire service personnel during said critical red flag periods in order to increase the emergency response and wildland fire suppression capabilities of first responders. (Government c-19, b-19). WF, WUF,
- For new development, ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment (Infrastructure c-4). WF, WUF
- Assist, support, and/or encourage the U.S. Army Corp of Engineers, various Flood Control and Water Conservation Districts, and other responsible agencies to locate and maintain funding for the development of flood control projects that have high cost-benefit ratios (such as through the writing of letters of support and/or passing resolutions in support of these efforts) (Infrastructure d-4). FL
- Ensure that utility systems in new developments are constructed in ways that reduce or eliminate flood damage (Infrastructure d-13). FL



## Incorporation into Existing Planning Mechanisms

The City of Hayward has several planning mechanisms which the LHMP can be incorporated. These include:

- ◆ General Plan
- ◆ Capital Improvements Plan
- ◆ Hayward Climate Action Plan ([http://www.hayward-ca.gov/CAP08/pdfs/2009/CAP\\_Final/Hayward\\_CAP\\_FINAL\\_11-6-09%20-%20full%20document.pdf](http://www.hayward-ca.gov/CAP08/pdfs/2009/CAP_Final/Hayward_CAP_FINAL_11-6-09%20-%20full%20document.pdf))
- ◆ Daily governmental operations in on-going programs

City of Hayward has a General Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards in the Conservation and Environmental Protection Element and Public Utilities and Services Element. This plan was adopted as an implementation appendix to the General Plan. In addition, the City of Hayward enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. The City of Hayward has used these pre-existing programs as a basis for identifying gaps that may lead to disaster vulnerabilities in order to work on ways to address these risks through mitigation.

The strategies, mitigation objectives and actions outlined in this Plan are designed to be implemented through daily governmental operations in the performance of duties and responsibilities on a day to day basis. Mitigation projects are most successful when fully integrated into on-going programs and mechanisms.

## Plan Update Process

As required Disaster Mitigation Act of 2000, the City of Hayward will update this plan annex at least once every five years, by participating in a multi-agency effort with ABAG and other agencies to develop a multi-jurisdictional plan. However, the City may update this Annex at its own discretion any time prior to the mandated five years if new hazard information becomes available, priorities for implementation change, a significant natural or human induced incident occurs, or by direction of the Executive Team comprised of the City Manager, the Assistant City Manager and Department Directors.

The City of Hayward will ensure that monitoring of this Annex will occur on an on-going basis taking into consideration legal changes and notices from ABAG as the lead agency in this process. Finally, the Annex will be a discussion item on the agenda of the meeting of the Executive Team at least once a year. At that meeting, the focus will be on evaluating the Annex



in light of technological and political changes during the past year or other significant events as aforementioned. With the assistance of Fire Department and Development Services, the Executive Team will be responsible for determining if the plan should be updated.

Key departments with responsibilities for mitigation will continue to actively participate in the process by reviewing strategies priorities and seeking funding sources for underfunded programs.

The City of Hayward will contact ABAG four years after this plan is approved to ensure that ABAG plans to undertake the plan update process. If so, the County again plans to participate in the multi-jurisdictional plan. If ABAG is unwilling or unable to act as the lead agency in the multi-jurisdictional effort, other agencies will be contacted, including the County's Office of Emergency Services. Counties should then work together to identify another regional forum for developing a multi-jurisdictional plan.

The public will continue to be involved whenever the plan is updated during the monitoring and evaluation process. Prior to adoption of updates, the City of Hayward will provide the opportunity for the public to comment on the updates. A public notice will be posted in the Daily Review prior to the meeting to announce the comment period and meeting logistics. In addition, the City of Hayward website will be utilized to announce updates and for the submission of public comments. The City will also utilize Chabot College Cable Channel for Public Service Announcements for public meetings for proposed changes to the Hayward Annex. It is the goal of the City for the public to learn about the mitigation strategies, assist in choosing the priorities of the City, and assist with prioritizing strategies.

It is a top priority of the City Council and goal of the City to improve disaster preparedness and disaster response in the organization and with in neighborhoods. It is also a top priority of the City Council to complete and adopt the Multi-Jurisdictional Local Hazard Mitigation Plan. This will be accomplished through disaster preparedness public education programs such as Community Emergency Response Training, Fire Department and Neighborhood Services presentations to neighborhood, community, school and business groups, Fire Department booths at public events and fairs, the Hayward Fire Department E-Newsletters, and Hayward Website.



## Mitigation Plan Point of Contact

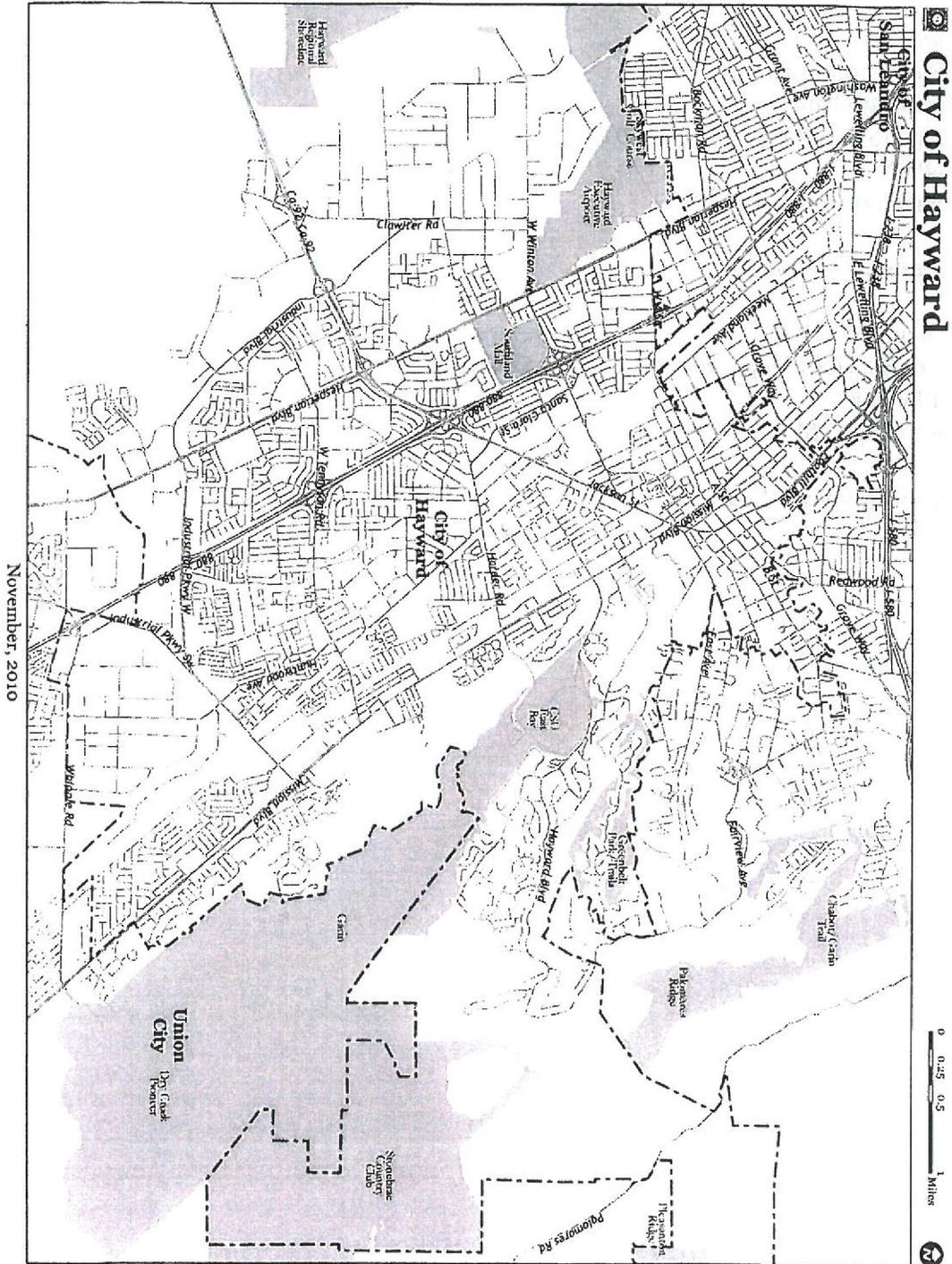
Thor Poulsen  
Hayward Fire Department  
Public Education Officer  
777 B Street, Hayward CA 94541-5007  
(510) 583-4948  
thor.poulsen@hayward-ca.gov

### *Alternate Point of Contact*

Arlynn J. Camire, AICP  
Development Services Department, Planning Division  
Associate Planner  
777 B Street, Hayward CA 94541-5007  
(510) 583-4206  
arlynn.camire@hayward-ca.gov



# Exhibit A – Jurisdiction Boundary





## Exhibit B - Public Meeting Announcements

### NOTICE OF COMMUNITY MEETING

Are you concerned how Hayward will survive the next earthquake? How will the City rebuild after the next disaster? What can the community do to lessen the impacts of a natural hazard? How can communities work together to better prepare for such an event? We would like you to share your ideas concerning these issues.

You are invited to attend a public meeting on Monday, September 21, 2009, at 6:00 p.m. in the City Hall Council Chambers at 777 B Street, 2<sup>nd</sup> Floor, Hayward, CA 94541.

The purpose of this meeting is to receive comment on the strategies for the Association of Bay Area Governments (ABAG) Local Hazard Mitigation Plan. This plan gives Bay Area communities an opportunity to work together to be better prepared for disaster and become eligible for Federal disaster assistance.

The purpose of this Local Hazard Mitigation Plan document is to serve as a catalyst for a dialog on public policies needed to mitigate the natural hazards that affect the San Francisco Bay Area.

The overall strategy is to use this multi-jurisdictional effort to not only maintain and enhance the disaster resistance of our region, but also to fulfill the requirements of the Disaster Mitigation Act of 2000 for all local governments to develop and adopt this type of plan.

*We value your opinion:* Individuals, organizations and other interested parties are invited to participate. If you are unable to attend the meeting and would like to comment or ask questions, please feel free to contact Arlyne Camire.

General information regarding the Local Hazard Mitigation Plan can be found at ABAG website at:  
<http://www.quake.abag.ca.gov/mitigation>

For information specific to Hayward, refer to the Local Hazard Mitigation Plan in the "Important Information" section of the City website: <http://www.hayward-ca.gov>



Planning Division  
777 B Street, Hayward CA 94541-5007

For additional information, please contact me at:

*Arlyne Camire, AICP Associate Planner*  
*City of Hayward, Planning Division*  
*777 "B" Street, 1<sup>st</sup> Floor*  
*Hayward, CA 94541*  
*Phone No: (510) 583-4206, Fax No: (510) 583-3649*  
*E-mail: [arlyne.camire@hayward-ca.gov](mailto:arlyne.camire@hayward-ca.gov)*  
*TDD: (510) 247-3340*  
*[www.hayward-ca.gov](http://www.hayward-ca.gov)*

Si necesita esta información en español, por favor llame al teléfono 510-583-4400.



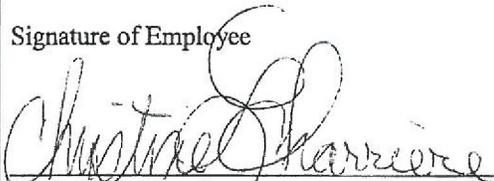
**CERTIFICATE OF MAILING**

**DATE:** September 4, 2009  
**APPLICATION NO:** Local Hazard Mitigation Plan  
**APPLICANT:** City of Hayward  
**NO. OF NOTICES:** 84  
**DATE OF MAILING:** September 2, 2009

**The undersigned hereby certifies as follows:**

That during all times herein mentioned, I was an employee of the City of Hayward, acting for and on behalf of said City; that on the 2<sup>nd</sup> of September, 2009, I mailed a Notice of Community Meeting to all Home Owners Associations, Neighborhood Task Forces and Hayward Chamber of Commerce.

Signature of Employee

  
Christine L. Charriere

T:/Departments/CED/Planning/Work DRS/Forms/Merge documents/Certificate of Mailing.doc



LOCAL HAZARD MITIGATION PLAN  
PUBLIC MEETING  
SEPTEMBER 21, 2009 @ 6:00 PM  
CITY COUNCIL CHAMBERS

SIGN-IN SHEET

| NAME            | ADDRESS           | PHONE NO. | E-MAIL                     | Concerns / Suggestions |
|-----------------|-------------------|-----------|----------------------------|------------------------|
| Jim Wieden      | 22561 MAN         | 247-2041  | Jim@Hayward.ca             |                        |
| Muriel Mohn     | 31212 Fairview ST | 471-2369  |                            |                        |
| John O'Sullivan | 26655 DUNDON Way  | 539-4811  | john.osullivan@cs.csbay.ca |                        |
|                 |                   |           |                            |                        |
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## **Exhibit C – City of Hayward Mitigation Strategies**

Available on LHMP online at <http://abag.ca.gov/bayarea/egmaps/mitigation/strategy.html>

# Land Use Mitigation Strategies

| 2009 Strategy Code                                                       |     | Original Strategy Number | Mitigation Strategy                                                                                                                                                                                                                                                  | Applicable Hazards | Priority (CHECK ONLY ONE) | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study, Not Applicable, Not Appropriate, or | Not Yet Considered                                                    | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
|--------------------------------------------------------------------------|-----|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------|------------------|-------------------------------|-------------------------------------------------------------------------------------|-----------------------------|----------|--------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LAND - a - Earthquake Hazard Studies for New Private Developments</b> |     |                          |                                                                                                                                                                                                                                                                      |                    |                           |                  |                               |                                                                                     |                             |          |                                                  |                                                                       |                                                                                                                                 |                                                                                                                                                                                                                  |
| a-1                                                                      | a-1 |                          | Enforce and/or comply with the State-mandated requirement that site-specific geologic reports be prepared for development                                                                                                                                            | EQ                 | X                         |                  |                               |                                                                                     |                             |          |                                                  |                                                                       | Public Works, Engineering & Development Services Building and Planning Divisions                                                | Adopted CBC, Reso 93-037 City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, Subdivision Map Act                                                                                            |
| a-2                                                                      | a-2 |                          | Require preparation of site-specific geologic or geotechnical reports for development and redevelopment proposals in areas subject to earthquake-induced                                                                                                             | EQ                 | X                         |                  |                               |                                                                                     |                             |          |                                                  | Public Works Engineering & Development Service, Building and Planning | Adopted CBC, Reso 93-037 City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, Subdivision Map Act           |                                                                                                                                                                                                                  |
| a-3                                                                      | a-3 |                          | Recognizing that some faults may be a hazard for surface rupture, even though they do not meet the strict criteria imposed by the Alquist-Priolo Earthquake Fault Zoning Act, identify and require geologic reports in areas adjacent to locally-significant faults. | EQ                 | X                         |                  |                               |                                                                                     |                             |          |                                                  | X                                                                     |                                                                                                                                 |                                                                                                                                                                                                                  |
| a-4                                                                      | new |                          | Ensure that development proposed near faults with a history of complex surface rupture (multiple traces, warping, thrusting, etc.) has larger setbacks than the minimum fifty feet.                                                                                  | EQ                 | X                         |                  |                               |                                                                                     |                             |          |                                                  | X                                                                     |                                                                                                                                 |                                                                                                                                                                                                                  |

Land Use Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                 | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study | Not Applicable, Not Appropriate, or | Not Yet Considered | Responsible Agency (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments                     |
|--------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------------------|--------------------------------------------------------------------------------------|-----------------------------|----------|-------------|-------------------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a-3                | new                      | Consider imposing requirements similar to the Alquist-Priolo Earthquake Fault Zoning Act for structures without human occupancy if these buildings are still essential for the economic recovery of the community or region.                                                 | EQ                 |                  |                               |                                                                                      |                             |          |             |                                     | X                  |                                                                                                                   |                                                                                                                                                                                                                                      |
| a-6                | a-4                      | Recognizing that the California Geological Survey has not completed earthquake-induced landslide and liquefaction mapping for much of the Bay Area, identify and require geologic reports in areas mapped by others as having significant liquefaction or landslide hazards. | EQ                 | X                |                               |                                                                                      |                             |          | X           |                                     |                    | Development Services                                                                                              | The City of Hayward maintains a GIS mapping system that is available to the public. The system identifies these areas. In addition, as a standard practice, geologic reports are required as part of the development review process. |
| a-7                | a-5                      | Support and/or facilitate efforts by the California Geological Survey to complete the earthquake-induced landslide and liquefaction mapping for the Bay Area.                                                                                                                | EQ                 |                  |                               |                                                                                      |                             |          | X           |                                     |                    | Development Services                                                                                              | The City of Hayward maintains a GIS mapping system that is available to the public. The system identifies these areas.                                                                                                               |
| a-8                | a-6                      | Require that local government reviews of geologic and engineering studies                                                                                                                                                                                                    | EQ                 | X                |                               |                                                                                      |                             |          |             |                                     |                    | Development Services                                                                                              | Standard Practice-Required through the development process.                                                                                                                                                                          |

LAND - b - Wildland and Structural Fires

**Land Use Mitigation Strategies**

| 2009 Strategy Code  | Original Strategy Number | Applicable Hazards                                                                                                                                                                                                                           | Existing Program | Existing Program, underfunded | Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study, Not Applicable, Not Appropriate, or | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program, under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority); Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
|---------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------|---------------------------------------------------------------------------------------|-----------------------------|----------|--------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| b-1                 | b-1                      | Review <del>new</del> development proposals to ensure that they incorporate required and appropriate fire-                                                                                                                                   | WF               | X                             |                                                                                       | X                           |          |                                                  |                    | Fire Department                                                                                                                  | Additional personnel required. All development applications are circulated to the Fire Department for review.                                                                                                    |
| b-2                 | b-2                      | Develop a clear legislative and regulatory framework at both the state and local                                                                                                                                                             | WF               | X                             |                                                                                       | X                           |          |                                                  |                    | Fire Department                                                                                                                  | Additional personnel required                                                                                                                                                                                    |
| LAND - c - Flooding |                          |                                                                                                                                                                                                                                              |                  |                               |                                                                                       |                             |          |                                                  |                    |                                                                                                                                  |                                                                                                                                                                                                                  |
| c-1                 | c-1                      | Establish and enforce requirements for new development so that site-specific designs and source-control techniques are used to manage peak stormwater runoff flows and impacts from increased runoff volumes.                                | FL               | X                             |                                                                                       |                             |          |                                                  |                    | Public Works-Engineering                                                                                                         | Standard Practice                                                                                                                                                                                                |
| c-2                 | c-2                      | Incorporate FEMA guidelines and suggested activities into local government plans and procedures for managing flood hazards.                                                                                                                  | FL               | X                             |                                                                                       |                             |          |                                                  |                    | Public Works-Engineering                                                                                                         | Standard Practice                                                                                                                                                                                                |
| c-3                 | c-3                      | Provide an institutional mechanism to ensure that development proposals adjacent to floodways and in floodplains are referred to flood control districts and wastewater agencies for review and comment (consistent with the NPDES program). | FL               | X                             |                                                                                       |                             |          |                                                  |                    | Public Works-Engineering                                                                                                         | Standard Practice                                                                                                                                                                                                |

Land Use Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Mitigation Strategy                                                                                                                                                                                                                                                                         | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study | Not Applicable, Not Appropriate, or | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| c-4                | c-4                      | Establish and enforce regulations concerning new construction (and major improvements to existing structures) within flood zones in order to be in compliance with federal requirements and, thus, be a participant in the Community Rating System of the National Flood Insurance Program. |                    | X                |                               |                                                                                      |                             |          |             |                                     |                    | Development Services & Public Work-Engineering and Transportation                                                               | Standard Practice                                                                                                                                                                                                |
| c-5                | new                      | Encourage new development near floodways to incorporate a buffer zone or setback from that floodway to allow for changes in stormwater flows in the watershed over time.                                                                                                                    |                    |                  |                               | X                                                                                    |                             |          |             |                                     |                    | Public Works-Engineering and Development Services                                                                               | Standard Practice                                                                                                                                                                                                |
| c-6                | new                      | For purposes of creating an improved hazard mitigation plan for the region as a whole, ABAG, and Bay Area cities and counties, jointly request geographically defined repetitive flooding loss data from FEMA for their own jurisdictions.                                                  |                    |                  |                               | X                                                                                    |                             |          |             |                                     |                    | Development Services & Public Work-Engineering and Transportation                                                               |                                                                                                                                                                                                                  |

LAND - d - Landslides and Erosion

**Land Use Mitigation Strategies**

| 2009 Strategy Code<br>Original Strategy Number | Mitigation Strategy                                                                                                                                                                                                                                                                            | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program- Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study<br>Not Applicable,<br>Not Appropriate, or | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY? if not same as regional priority, OR Other Comments |
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| d-1                                            | d-1 Establish and enforce provisions (under subdivision ordinances or other means) that geotechnical and soil-hazard investigations be conducted and filed to prevent grading from creating unstable slopes, and that any necessary corrective actions be taken prior to development approval. | LS                 | X                |                               |                                                                                      |                             |          |                                                       |                    | Development Services & Public Works-Engineering                                                                                 | City of Hayward Hillside Design and Urban/Wildland Interface Guidelines," adopted February 16, 1993, by Resolution 93-037 and Hayward Municipal Code Chapter 10, Article 8 -Grading and Clearing, CBC             |
| d-2                                            | d-2 Require that local government reviews of these investigations are conducted by appropriately trained and credentialed personnel.                                                                                                                                                           | LS                 | X                |                               |                                                                                      |                             |          |                                                       |                    | Development Services & Public Works- Engineering and Transportation                                                             | City of Hayward Hillside Design and Urban/Wildland Interface Guidelines," adopted February 16, 1993, by Resolution 93-037 and Hayward Municipal Code Chapter 10, Article 8 -Grading and Clearing, CBC             |
| d-3                                            | d-3 Establish and enforce grading, erosion, and sedimentation ordinances by requiring, under certain conditions, grading permits and plans to control erosion and sedimentation prior to development approval.                                                                                 | LS                 | X                |                               |                                                                                      |                             |          |                                                       |                    | Development Services & Public Works-Engineering and Transportation                                                              | City of Hayward Hillside Design and Urban/Wildland Interface Guidelines," adopted February 16, 1993, by Resolution 93-037 and Hayward Municipal Code Chapter 10, Article 8 -Grading and Clearing, CBC             |

Land Use Mitigation Strategies

| 2009 Strategy Code                                                           | Original Strategy Number | Mitigation Strategy                                                                                                                                                                                 | Applicable Hazards | Existing Program | Existing Program, Underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study | Not Applicable, Not Appropriate, or | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments        |
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| d-4                                                                          | d-4                      | Establish and enforce provisions under the creek protection, storm water management, and discharge control ordinances designed to control erosion and sedimentation.                                | LS                 | X                |                               |                                                                                     |                             |          |             |                                     |                    | Development Services & Public Works, Engineering and Transportation                                                             | City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, * adopted February 16, 1993, by Resolution 93-037 and Hayward Municipal Code Chapter 10, Article 8 -Grading and Clearing, CBC                  |
| d-5                                                                          | d-5                      | Establish requirements in zoning ordinances to address hillside development constraints, especially in areas of existing landslides.                                                                | LS                 | X                |                               |                                                                                     |                             |          |             |                                     |                    | Development Services-Planning Division                                                                                          | City of Hayward Hillside Design and Urban/Wildland Interface Guidelines, * adopted February 16, 1993, by Resolution 93-037 and Hayward Municipal Code Chapter 10, Article 8 -Grading and Clearing, and Zoning Ordinance |
| LAND - e - Hillside - Multi-Hazard                                           |                          |                                                                                                                                                                                                     |                    |                  |                               |                                                                                     |                             |          |             |                                     |                    |                                                                                                                                 |                                                                                                                                                                                                                         |
| e-1                                                                          | e-1                      | For new development, require a buffer zone between residential properties and landslides or wildfire hazard areas.                                                                                  | LS                 | WF               | X                             |                                                                                     |                             |          |             |                                     |                    | Fire Department and Development Services, Planning                                                                              | Additional Fire Department personnel required. Review of development applications occurs on a case by case basis as required by The City of Hayward Hillside Design and the Urban/Wildland Interface Guidelines.        |
| e-2                                                                          | e-2                      | Discourage, add additional mitigation strategies, or prevent new construction or major remodels on slopes greater than a set percentage, such as 15%, due to landslide or wildfire hazard concerns. | LS                 | WF               | X                             |                                                                                     |                             |          |             |                                     |                    | Fire Department and Development Services-Planning                                                                               | Additional Fire Department personnel required. Review of development applications occurs on a case by case basis as required by The City of Hayward Hillside Design and the Urban/Wildland Interface Guidelines.        |
| LAND - f - Smart Growth to Revitalize Urban Areas and Promote Sustainability |                          |                                                                                                                                                                                                     |                    |                  |                               |                                                                                     |                             |          |             |                                     |                    |                                                                                                                                 |                                                                                                                                                                                                                         |

**Land Use Mitigation Strategies**

| 2009 Strategy Code | Original Strategy Number | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study | Not Applicable, Not Appropriate, or | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program underfunded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| f-1                | f-1                      | EQ LS WF<br>FL DR SEC |                  | X                             |                                                                                      |                             |          |             |                                     |                    | Development Services, Building Division                                                                                        | Additional Building personnel required.                                                                                                                                                                          |
| f-2                | f-2                      | EQ LS WF<br>FL DR SEC |                  |                               |                                                                                      | X                           |          |             |                                     |                    | Development Services, Building Division                                                                                        | Additional Building personnel required.                                                                                                                                                                          |
| f-3                | f-3                      | EQ LS WF<br>FL SEC    |                  |                               |                                                                                      | X                           |          |             |                                     |                    | Development Services                                                                                                           | Additional Planning and Building personnel required.                                                                                                                                                             |
| f-4                | f-4                      | EQ LS WF<br>FL SEC    |                  |                               |                                                                                      |                             |          |             | X                                   |                    |                                                                                                                                |                                                                                                                                                                                                                  |

Land Use Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number                                                                                                                                           | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                        | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for | Moderate | Under Study, Not Applicable, Not Appropriate, or | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program underfunded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| F-5                                                                                                                                                                                      | Strive to provide preserve existing buffers between development and existing users of large amounts of hazardous materials, such as major industry, due to the potential for catastrophic releases or fires due to an earthquakes, accidents, or terrorism. (Flooding might also result in release or spread of these materials, however it is unlikely.) In areas where buffers do not exist or cannot be created, provide alternative mitigation. | EQ LS WF<br>FL SEC | X                |                               |                                                                                      |                             |          |                                                  |                    | Fire Department                                                                                                                | Additional Fire Department personnel required.                                                                                                                                                                   |
| <p>LAND - 9 - Hazard Abatement Districts</p> <p>9-1 new Use hazard abatement districts as a funding mechanism to ensure that mitigation strategies are implemented and enforced over</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                               |                                                                                      |                             |          |                                                  |                    |                                                                                                                                |                                                                                                                                                                                                                  |
|                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EQ LS WF<br>FL     |                  |                               |                                                                                      |                             |          | X                                                |                    | Development Services                                                                                                           | Funding required from developers.                                                                                                                                                                                |

## Environment Mitigation Strategies

Priority CHECK ONLY ONE

| 2009 Strategy Code                                                     | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                              | Applicable Hazards      | Existing Program | Existing Program, underfunded or high priority | Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| <b>ENVI - a - Environmental Sustainability and Pollution Reduction</b> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                  |                                                |                                                                         |                                     |          |             |                                                        |                    |                                                                                                                                |                                                                                                                                                                                                                  |
| a-1                                                                    | a-1                      | Continue to enforce State-mandated requirements, such as the <i>California Environmental Quality Act</i> , to ensure that mitigation activities for fire threat and vegetation clearance programs for fire threat and seismic retrofits, are conducted in a way that reduces environmental degradation such as air quality impacts, noise during construction, and loss of sensitive habitats and species, while respecting the community value of historic preservation. | EQ, LS, WF, FL, DR, SEC | X                |                                                |                                                                         |                                     |          |             |                                                        |                    | Development Services-Planning Division and Public Works-Engineering                                                            |                                                                                                                                                                                                                  |
| a-2                                                                    | a-2                      | Encourage regulatory agencies to work collaboratively with safety professionals to develop creative mitigation strategies that effectively balance environmental and safety needs, particularly to meet critical wildfire, flood, and earthquake safety levels.                                                                                                                                                                                                           | EQ, WF, FL, DR, SEC     |                  | X                                              |                                                                         |                                     |          |             |                                                        |                    | City Departments                                                                                                               | HMC                                                                                                                                                                                                              |
| a-3                                                                    | a-3                      | Continue to enforce and/or comply with State-mandated requirements, such as the <i>California Environmental Quality Act</i> and environmental regulations to ensure that urban development is conducted in a way to minimize air pollution. For example, air pollution levels can lead to global warming, and then to drought, increased vegetation susceptibility to disease (such as pine bark beetle infestations), and associated increased fire hazard.              | LS, WF, FL, DR, SEC     | X                |                                                |                                                                         |                                     |          |             |                                                        |                    | Development Services/Planning Division                                                                                         | Currently, on a case by case basis                                                                                                                                                                               |
| a-4                                                                    | a-4                      | Develop and implement a comprehensive program for watershed <b>management</b> optimizing <b>ecosystem</b> health with water yield to balance water supply, flooding, fire, and erosion concerns.                                                                                                                                                                                                                                                                          | LS, WF, FL, DR, SEC     |                  |                                                |                                                                         |                                     |          |             |                                                        | X                  | Alameda County Flood Control District                                                                                          | HMC and Climate Action Plan                                                                                                                                                                                      |
| a-5                                                                    | a-5                      | Balance the need for the smooth flow of storm waters versus the need to maintain wildlife habitat by developing and implementing a comprehensive Streambed Vegetation Management Plan that ensures the efficacy of flood control efforts, <b>wildfire mitigation</b> and maintains the viability of living rivers.                                                                                                                                                        | LS, WF, FL, DR          |                  |                                                |                                                                         |                                     |          |             |                                                        |                    | Alameda County Flood Control District                                                                                          |                                                                                                                                                                                                                  |
| a-6                                                                    | a-8                      | Comply with applicable performance standards of any <i>National Pollutant Discharge Elimination System</i> municipal stormwater permit that seeks to manage increases in stormwater run-off flows from new development and redevelopment construction projects.                                                                                                                                                                                                           | FL                      | X                |                                                |                                                                         |                                     |          |             |                                                        |                    | Development Services and PW/Engineering                                                                                        |                                                                                                                                                                                                                  |

Environment Mitigation Strategies

| 2009 Strategy Code        | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                 | Applicable Hazards    | Existing Program | Existing Program, underfunded very slight - | Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| a-7                       | a-9                      | Enforce and/or comply with the grading, erosion, and sedimentation requirements by prohibiting the discharge of concentrated stormwater flows by other than approved methods that seek to minimize associated pollution.                                                                                                                                                                     | LS<br>FL              | X                |                                             |                                                                         |                                     |          |             |                                                        |                    | Public Works-Engineering                                                                                                        | Chapter 10 Article 8-Grading and Clearing, State Storm Drain Regs. Enforced on a case by case                                                                                                                    |
| a-8                       | a-10                     | Explore ways to require that hazardous materials stored in the flood zone be elevated or otherwise protected from flood waters.                                                                                                                                                                                                                                                              | FL                    | X                |                                             |                                                                         |                                     |          |             |                                                        |                    | Fire Department-Haz Mat Office                                                                                                  | Case by Case basis                                                                                                                                                                                               |
| a-9                       | a-11                     | Enforce and/or comply with the hazardous materials requirements of the State of California Certified Unified Program Agency (CUPA).                                                                                                                                                                                                                                                          | EQ LS<br>WF FL<br>SEC | X                |                                             |                                                                         |                                     |          |             |                                                        |                    | Fire Department-Haz Mat Office                                                                                                  | Case by Case basis                                                                                                                                                                                               |
| a-10                      | a-12                     | Provide information on hazardous waste disposal and/or drop off locations.                                                                                                                                                                                                                                                                                                                   | EQ LS<br>WF FL<br>SEC | X                |                                             |                                                                         |                                     |          |             |                                                        |                    | Fire Department-Haz Mat Office                                                                                                  | Case by Case basis                                                                                                                                                                                               |
| a-11                      | new                      | <b>When remodeling existing government and infrastructure buildings and facilities, remove asbestos to speed up clean up of buildings so that they can be reoccupied more quickly.</b>                                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                                             |                                                                         |                                     |          |             |                                                        |                    | Development Services-Bldg. Division                                                                                             | Available in Permit Center & Website.                                                                                                                                                                            |
| a-12                      | a-13                     | Develop and implement a program to control invasive and exotic species that contribute to fire and flooding hazards (such as eucalyptus, cattails, and cordgrass). <b>This program could include vegetation removal, thinning, or replacement in hazard areas where there is a direct threat to structures.</b>                                                                              | WF FL                 | X                |                                             |                                                                         |                                     |          |             |                                                        |                    | Alameda County Flood Control District                                                                                           | HMC, CBC & BAAQMD Regulations                                                                                                                                                                                    |
| a-13                      | a-14                     | Enforce provisions under creek protection, stormwater management, and discharge control ordinances designed to keep watercourses free of obstructions and to protect drainage facilities to conform with the Regional Water Quality Control Board's Best Management Practices.                                                                                                               | FL                    | X                |                                             |                                                                         |                                     |          |             |                                                        |                    | Water Pollution Source Control                                                                                                  |                                                                                                                                                                                                                  |
| ENVI - b - Climate Change |                          |                                                                                                                                                                                                                                                                                                                                                                                              |                       |                  |                                             |                                                                         |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| b-1                       | a-6                      | <b>Stay informed of scientific information compiled by regional and state sources on the subject of rising sea levels and global warming, especially on additional actions that local governments can take to mitigate this hazard including special design and engineering of government-owned facilities in low-lying areas, such as wastewater treatment plants, ports, and airports.</b> | LS<br>WF FL<br>DR     |                  |                                             | X                                                                       |                                     |          |             |                                                        |                    | Development Services                                                                                                            | The Hayward Area Shoreline Planning Agency (HASPA) has commissioned a Sea Level Rise Study. First draft is expected in November 2009.                                                                            |
| b-2                       | new                      | <b>Inventory global warming emissions in your own local government's operations and in the community, set reduction targets and create an action plan.</b>                                                                                                                                                                                                                                   | LS<br>WF FL<br>DR     |                  |                                             |                                                                         |                                     |          |             |                                                        |                    | Development Services                                                                                                            | Inventory completed in 2006. Climate Action Plan was adopted on July 28, 2009 via Resolution # 09-128                                                                                                            |

Environment Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                     | Applicable Hazards   | Existing Program | Existing Program, underfunded very high - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| b-3 new                                        | Adopt and enforce land-use policies that reduce sprawl, preserve open space, and create compact, walkable urban communities.                                                                                                                                     | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Development Services                                                                                                      | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128.                                                                                                               |
| b-4 new                                        | Promote transportation options such as bicycle trails, commute trip reduction programs, incentives for car pooling and public transit.                                                                                                                           | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Development Services                                                                                                      | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128.                                                                                                               |
| b-5 new                                        | Increase the use of clean, alternative energy by, for example, investing in "green tags", advocating for the development of renewable energy resources, recovering landfill methane for energy production, and supporting the use of waste to energy technology. | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Development Services                                                                                                      | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128.                                                                                                               |
| b-6 new                                        | Make energy efficiency a priority through building code improvements, retrofitting city facilities with energy efficient lighting and urging employees to conserve energy and save money.                                                                        | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Maintenance Services Department                                                                                           | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128.                                                                                                               |
| b-7 new                                        | Purchase only Energy Star equipment and appliances for local government use.                                                                                                                                                                                     | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Maintenance Services Department                                                                                           |                                                                                                                                                                                                                  |
| b-8 new                                        | Practice and promote sustainable building practices using the U.S. Green Building Council's LEED program or a similar system.                                                                                                                                    | LS<br>WF<br>FL<br>DR |                  | X                                                                                                                   |                                     |          |             |                                                        |                    | Development Services                                                                                                      | Funding Needed<br>Hayward Municipal Code Chapter 10, Article 21 - Green Building Requirements for Municipal Buildings and Article 22 - Green Building Requirements for Private Developments.                     |
| b-9 new                                        | Increase the average fuel efficiency of municipal fleet vehicles; reduce the number of vehicles; launch an employee education program including anti-idling messages; convert diesel vehicles to bio-diesel.                                                     | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Maintenance Services Department                                                                                           | Funding Needed. Vehicles are replaced based on Funding.                                                                                                                                                          |
| b-10 new                                       | Evaluate opportunities to increase pump efficiency in water and wastewater systems; recover wastewater treatment methane for energv production.                                                                                                                  | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Public Works - Utilities Division                                                                                         |                                                                                                                                                                                                                  |
| b-11 new                                       | Increase recycling rates in local government operations and in the community.                                                                                                                                                                                    | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Development Services                                                                                                      | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128.                                                                                                               |

**Environment Mitigation Strategies**

| 2009 Strategy Code                                 | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                         | Applicable Hazards   | Existing Program | Existing Program, underfunded very high - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| b-12                                               | new                      | Maintain healthy urban forests; promote tree planting to increase shading and to absorb CO2.                                                                                                                                                                                         | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Development Services                                                                                              | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128                                                                                                                |
| b-13                                               | new                      | Help educate the public, schools, other jurisdictions, professional associations, business and industry about reducing global warming pollution.                                                                                                                                     | LS<br>WF<br>FL<br>DR |                  |                                                                                                                     | X                                   |          |             |                                                        |                    | Development Services                                                                                              | Identified in the Climate Action Plan, which was adopted on July 28, 2009 via Resolution # 09-128.                                                                                                               |
| ENV/ - c - Agricultural and Aquaculture Resilience |                          |                                                                                                                                                                                                                                                                                      |                      |                  |                                                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                   |                                                                                                                                                                                                                  |
| c-1                                                | b-1                      | Maintain a variety of crops in rural areas of the region to increase agricultural diversity and crop resiliency. RESPONSIBLE AGENCIES: County Offices of the Agricultural Commissioner.                                                                                              | Ag<br>DR<br>SEC      |                  |                                                                                                                     |                                     |          |             | X                                                      |                    | County Offices of Agricultural Comm.                                                                              |                                                                                                                                                                                                                  |
| c-2                                                | b-2                      | Promote and maintain the public-private partnerships dedicated to preventing the introduction of agricultural pests into regionally-significant crops, such as the glassy-winged sharpshooter into vineyards. RESPONSIBLE AGENCIES: County Offices of the Agricultural Commissioner. | Ag<br>DR<br>SEC      |                  |                                                                                                                     |                                     |          |             | X                                                      |                    | County Offices of Agricultural Comm.                                                                              |                                                                                                                                                                                                                  |
| c-3                                                | b-4                      | Encourage livestock operators to develop an early-warning system to detect animals with communicable diseases (due to natural causes or bioterrorism). RESPONSIBLE AGENCIES: County Health Department and Office of the County Agricultural Commissioner.                            | Ag<br>FLU<br>SEC     |                  |                                                                                                                     |                                     |          |             | X                                                      |                    | County Offices of Agricultural Comm.                                                                              |                                                                                                                                                                                                                  |
|                                                    | b-3                      | (deleted since not a disaster-related strategy)                                                                                                                                                                                                                                      |                      |                  |                                                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                   |                                                                                                                                                                                                                  |
| deleted                                            |                          |                                                                                                                                                                                                                                                                                      |                      |                  |                                                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                   |                                                                                                                                                                                                                  |

## Education Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number                        |     | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Applicable Hazards    | Program (CHECK ONLY ONE) |                               |                                                                                     |                                     |          |             |                                                        | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as technical priority, OR |                           |
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| EDUC - a - Focus on Critical Facilities (Owned by School Districts)   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       | Existing Program         | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered                                                                                                              |                                                                                                                                                                                                    |                           |
| a-1                                                                   | a-1 | Assess the vulnerability of critical <b>public</b> education facilities to damage in natural disasters and make recommendations for appropriate mitigation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | Hayward Unified School District (HUSD)                                                                                                                                                             | Not applicable for a city |
| a-2                                                                   | a-2 | Retrofit or replace critical <b>public</b> education facilities that are shown to be vulnerable to damage in natural disasters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          | X           |                                                        |                                                                                                                                 | Hayward Unified School District (HUSD)                                                                                                                                                             | Not applicable for a city |
| a-3                                                                   | a-3 | Conduct comprehensive programs to identify and mitigate problems with facility contents, architectural components, and equipment that will prevent critical <b>public education</b> buildings from being functional after major disasters.                                                                                                                                                                                                                                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          | X           |                                                        |                                                                                                                                 | Hayward Unified School District (HUSD)                                                                                                                                                             | Not applicable for a city |
| a-4                                                                   | a-4 | As a secondary focus, assess the vulnerability of non-critical educational facilities ( <b>that is, those that do not house students</b> ) to damage in natural disasters based on occupancy and structural type, make recommendations on priorities for structural improvements or occupancy reductions, and identify potential funding mechanisms.                                                                                                                                                                                                                                                                                             | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          | X           |                                                        |                                                                                                                                 | Hayward Unified School District (HUSD)                                                                                                                                                             | Not applicable for a city |
| a-5                                                                   | a-5 | new Assess the vulnerability of critical private education, pre-school, and day care facilities to damage in natural disasters and make recommendations for appropriate mitigation.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          | X           |                                                        |                                                                                                                                 | Hayward Unified School District (HUSD)                                                                                                                                                             | Not applicable for a city |
| a-6                                                                   | a-5 | (Major Rewording) <b>Work with CALEMA and the Division of the State Architect to ensure that there will be an adequate group of Safety Assessment Program (SAP) inspectors trained and deployed by CALEMA to schools for post-disaster inspection. In addition, if a school district is uncomfortable with delays in inspection due to too few SAP inspectors available in catastrophic disasters, formalized arrangements with those inspectors certified by the Division of the State Architect as construction inspectors to report to the district, assess damage, and determine if the buildings can be reoccupied can also be created.</b> | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          | X           |                                                        |                                                                                                                                 | Hayward Unified School District (HUSD)                                                                                                                                                             | Not applicable for a city |
| <b>EDUC - b - Use of Educational Facilities as Emergency Shelters</b> |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                          |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 |                                                                                                                                                                                                    |                           |
| b-1                                                                   | b-1 | Work cooperatively with the American Red Cross, <b>cities, counties, and non-profits</b> to set up memoranda of understanding for use of education facilities as emergency shelters following disasters.                                                                                                                                                                                                                                                                                                                                                                                                                                         | EQ LS<br>WF FL<br>SEC |                          |                               |                                                                                     |                                     |          |             | X                                                      |                                                                                                                                 | Fire Department & HUSD                                                                                                                                                                             | Not applicable for a city |

### Education Mitigation Strategies

| 2009 Strategy Code                                                               | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                             | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency (or Department Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as traditional and/or CR |
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| b-2                                                                              | b-2                      | Work cooperatively to ensure that school district personnel and relevant staff understand and are trained that being designated by the American Red Cross or others as a potential emergency shelter does NOT mean that the school has had a hazard or structural evaluation to ensure that it can be used as a shelter following any specific disaster. | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| b-3                                                                              | b-3                      | Work cooperatively to ensure that school district personnel understand and are trained that they are designated as disaster service workers and must remain at the school until released.                                                                                                                                                                | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| <b>EDUC - c - Actions Related to Disaster Preparedness and Recovery Planning</b> |                          |                                                                                                                                                                                                                                                                                                                                                          |                       |                  |                               |                                                                                       |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                   |
| c-1                                                                              | new                      | Encourage employees of schools to have family disaster plans and conduct mitigation activities in their own homes.                                                                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| c-2                                                                              | c-2                      | <b>Develop plans, in conjunction with fire jurisdictions, for evacuation or sheltering in place of school children during periods of high fire danger, thereby recognizing that overloading of streets near schools by parents attempting to pick up their children during these periods can restrict access by fire personnel and equipment.</b>        | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| c-3                                                                              | c-3                      | Offer the 20-hour basic CERT training to teachers and after-school personnel.                                                                                                                                                                                                                                                                            | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| c-4                                                                              | c-4                      | Offer the 20-hour basic <b>Student Emergency Response Training (SERT, rather than CERT)</b> training to middle school and/or high school students as a part of the basic science or civics curriculum, as an after school club, or as a way to earn public service hours.                                                                                | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| c-5                                                                              | c-5                      | Offer the 20-hour basic CERT training course through the Adult School system and/or through the Community College system <b>(either using instructors with teaching credentials or by making facilities available for classes not run by school personnel themselves).</b>                                                                               | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |
| c-6                                                                              | c-6                      | Develop and maintain the capacity for schools to take care of the students for the first 48 hours after a disaster, and notify parents that this capacity exists.                                                                                                                                                                                        | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          | X           |                                                        |                    | HUSD                                                                                                                      | Not applicable for a city                                                                                                                                                                         |

### Education Mitigation Strategies

| 2009 Strategy Code                                                                             | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                   | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR |
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| c-7                                                                                            | new                      | Develop a continuity of operations and disaster recovery plan using models such as that developed by the University of California Berkeley. (The American Red Cross has a role in promoting this activity, as well, in schools that they plan to use as shelters.)                                                                                                                                                                                             | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | HUSD                                                                                                                            | Not applicable for a city                                                                                                                                                                         |
| EDUC - d- Actions Related to Schools as Conduits for Information to Families About Emergencies |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                   |
| d-1                                                                                            | c-1                      | Utilize the unique ability of schools to reach families through educational materials on hazards, mitigation, and preparedness, particularly after disasters and at the beginning of the school year. These efforts will not only make the entire community more disaster-resistant, but speed the return of schools from use as shelters to use as teaching facilities, particularly if coordinated with cities, counties, the American Red Cross and others. | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | HUSD                                                                                                                            | Not applicable for a city                                                                                                                                                                         |
| d-2                                                                                            | c-7                      | Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <a href="http://www.preparenow.org">http://www.preparenow.org</a> website.                                                                                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | HUSD                                                                                                                            | Not applicable for a city                                                                                                                                                                         |



### Government Mitigation Strategies

| 2009 Strategy Code       |                                                                                                | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                          | Applicable Hazards    | Priority (CHECK ONLY ONE) |                               |                                                                                     |                                     |          |             |                                                        | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |                    |
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| Original Strategy Number | GOVT - a - Focus on Critical Facilities - (Owned by the Local Government Filing Out This Form) |                                                                                                                                                                                                                                                                                                                                                                       |                       | Existing Program          | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective |                                                                                                                                 |                                                                                                                                                                                                                  | Not Yet Considered |
| a-1                      | a-1                                                                                            | Assess the vulnerability of critical facilities (such as city halls, fire stations, <b>operators and communications headquarters</b> , community service centers, seaports, and airports) to damage in <b>natural disasters</b> and make recommendations for appropriate mitigation.                                                                                  | EQ LS<br>WF FL        |                           | X                             |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | Public Works, Engineering and Transportation & Maintenance Services                                                                                                                                              | Standard Practice  |
| a-2                      | a-2                                                                                            | Retrofit or replace critical facilities that are shown to be vulnerable to damage in natural disasters.                                                                                                                                                                                                                                                               | EQ LS<br>WF FL<br>SEC |                           | X                             |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | Public Works, Engineering and Transportation & Maintenance Services                                                                                                                                              | Standard Practice  |
| a-3                      | a-3                                                                                            | Clarify to workers in critical facilities and emergency personnel, as well as to elected officials and the public, the extent to which the facilities are expected to perform only at a life safety level (allowing for the safe evacuation of personnel) or are expected to remain functional following an earthquake.                                               | EQ                    |                           | X                             |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | Public Works, Engineering and Transportation & Maintenance Services                                                                                                                                              | Standard Practice  |
| a-4                      | a-4                                                                                            | Conduct comprehensive programs to identify and mitigate problems with facility contents, architectural components, and equipment that will prevent critical buildings from being functional after major natural disasters. <b>Such contents and equipment includes computers and servers, phones, files, and other tools used by staff to conduct daily business.</b> | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     |          |             | X                                                      |                                                                                                                                 | N/A                                                                                                                                                                                                              | N/A                |
| a-5                      | a-5                                                                                            | Encourage joint meetings of security and operations personnel at critical facilities to develop innovative ways for these personnel to work together to increase safety and security.                                                                                                                                                                                 | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     |          |             | X                                                      |                                                                                                                                 | N/A                                                                                                                                                                                                              | N/A                |
| a-6                      | a-6                                                                                            | <b>When</b> installing micro and/or surveillance cameras around critical public assets tied to web-based software, and develop a surveillance protocol to monitor these cameras. <b>investigate the possibility of using the cameras for the secondary purpose of post-disaster damage assessment.</b>                                                                | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     |          |             | X                                                      |                                                                                                                                 | N/A                                                                                                                                                                                                              | N/A                |
| a-7                      | a-7                                                                                            | Identify and undertake cost-effective retrofit measures <b>related to security</b> on critical facilities (such as moving and redesigning air intake vents and installing blast-resistant features) when these buildings undergo major renovations <b>related to other natural hazards.</b>                                                                           | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     |          |             | X                                                      |                                                                                                                                 | N/A                                                                                                                                                                                                              | N/A                |

### Government Mitigation Strategies

| 2009 Strategy Code                                                                    |            | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                        | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program- Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program). Estimated Cost and Possible Funding Agency (if high priority). Estimated Date of Completion (if study). WHY if not same as regional priority. OR Other Comments |
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| a-8                                                                                   | a-8        | Coordinate with the State Division of Safety of Dams to ensure that cities and counties are aware of the timeline for the maintenance and inspection of dams whose failure would impact their jurisdiction.                                                                                                                         | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | No Dams in Hayward                                                                                                        | No Dams within Hayward                                                                                                                                                                                           |
| a-9                                                                                   | a-9        | As a secondary focus, assess the vulnerability of non-critical facilities to damage in natural disasters based on occupancy and structural type, make recommendations on priorities for structural improvements or occupancy reductions, and identify potential funding mechanisms.                                                 | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                           | N/A                                                                                                                                                                                                              |
| a-10                                                                                  | a-10       | Ensure that government-owned facilities <b>comply with and</b> are subject to the same or more stringent regulations as imposed on privately-owned development.                                                                                                                                                                     | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services                                                                                                      | Standard Practices                                                                                                                                                                                               |
| a-11                                                                                  | a-11       | Comply with all applicable building and fire codes, as well as other regulations (such as state requirements for fault, landslide, and liquefaction investigations in particular mapped areas) when constructing or significantly remodeling government-owned facilities.                                                           | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services/Fire Department                                                                                      | Standard Practices                                                                                                                                                                                               |
| a-12                                                                                  | a-12       | Prior to acquisition of property to be used as a critical facility, conduct a study to ensure the absence of significant <b>structural hazards and hazards associated with the building site.</b>                                                                                                                                   | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Public Works, Engineering and Transportation                                                                              | Standard Practices                                                                                                                                                                                               |
| a-13                                                                                  | <b>new</b> | <b>Ensure that any regulations imposed on private-owned businesses (see "Economy Section") are enforced and imposed on local government's own buildings and structures.</b>                                                                                                                                                         | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services                                                                                                      | Standard Practice                                                                                                                                                                                                |
| <b>GOVT - b - Maintain and Enhance Local Government's Emergency Recovery Planning</b> |            |                                                                                                                                                                                                                                                                                                                                     |                       |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| b-1                                                                                   | b-1        | Establish a framework and process for pre-event planning for post-event recovery that specifies roles, priorities, and responsibilities of various departments within the local government organization, and that outlines a structure and process for policy-making involving elected officials and appointed advisory committees. | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| b-2                                                                                   | b-2        | Prepare a basic Recovery Plan that outlines the major issues and tasks that are likely to be the key elements of community recovery, as well as integrate this planning into response planning <b>(such as with continuity of operations plans).</b>                                                                                | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Fire Department                                                                                                           | Comprehensive Emergency Management Plan                                                                                                                                                                          |
| b-3                                                                                   | b-3        | Establish a goal for the resumption of local government services that may vary from function to function.                                                                                                                                                                                                                           | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Fire Department                                                                                                           | Comprehensive Emergency Management Plan                                                                                                                                                                          |

**Government Mitigation Strategies**

| 2009 Strategy Code                                                             | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                  | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| b-4                                                                            | b-25                     | Develop a continuity of operations plan that includes back-up storage of vital records, such as plans and back-up procedures to pay employees and vendors if normal finance department operations are disrupted, as well as other essential electronic files. | EQ LS<br>WF FL<br>SEC | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Finance and Technology Service                                                                                            | Funding needed to expand and implement program.                                                                                                                                                                  |
| b-5                                                                            | new                      | Plans should be made for the emergency relocation of government-owned facilities critical to recovery, as well as any facilities with known structural deficiencies or in hazardous areas.                                                                    | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| GOVT - c - Maintain and Enhance Local Government's Emergency Response Capacity |                          |                                                                                                                                                                                                                                                               |                       |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| c-1                                                                            | new                      | Develop a plan for short-term and intermediate-term sheltering of your employees.                                                                                                                                                                             | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| c-2                                                                            | new                      | Encourage your employees to have a family disaster plan.                                                                                                                                                                                                      | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  |                                                                                                                           | Funding Needed.<br><br>Information on Disaster Preparedness on City Website. Printed material or education programs require funding.                                                                             |
| c-3                                                                            | new                      | Offer CERTINERT-type training to your employees.                                                                                                                                                                                                              | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Fire Department                                                                                                           |                                                                                                                                                                                                                  |
| c-4                                                                            | b-5 (a)                  | Periodically assess the need for new or relocated fire or police stations and other emergency facilities.                                                                                                                                                     | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  |                                                                                                                           | Funding Needed.                                                                                                                                                                                                  |
| c-5                                                                            | b-5 (b)                  | Periodically assess the need for changes in staffing levels, and additional or updated supplies, equipment, technologies, and in-service training classes.                                                                                                    | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire and Police Departments                                                                                               | Additional Personnel required.                                                                                                                                                                                   |
| c-6                                                                            | b-6                      | Ensure that fire, police, and other emergency personnel have adequate radios, breathing apparatuses, protective gear, and other equipment to respond to a major disaster.                                                                                     | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire and Police Departments & Technology Services                                                                         | Standard Practice/Funding needed.                                                                                                                                                                                |
| c-7                                                                            | b-7                      | Participate in developing and maintaining a system of interoperable communications for first responders from cities, counties, special districts, state, and federal agencies.                                                                                | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire and Police Departments & Technology Services                                                                         | Standard Practice/Funding needed.                                                                                                                                                                                |

**Government Mitigation Strategies**

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                             | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| c-8                | b-8                      | Harden emergency response communications, including, for example, building redundant capacity into public safety alerting and/or answering points, replacing or hardening microwave and simulcast systems, adding digital encryption for programmable radios, and ensuring a plug-and-play capability for amateur radio. | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire and Police Departments & Technology Services                                                                         | Standard Practice/Funding needed.                                                                                                                                                                                |
| c-9                | b-9                      | Purchase command vehicles for use as mobile command/EOC vehicles if current vehicles are unsuitable or inadequate.                                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      | X                                   |          |             |                                                        |                    | Fire Department                                                                                                           | Funding Needed                                                                                                                                                                                                   |
| c-10               | b-10                     | Maintain the local government's emergency operations center in a fully functional state of readiness.                                                                                                                                                                                                                    | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Fire and Police Departments                                                                                               |                                                                                                                                                                                                                  |
| c-11               | b-11                     | Expand or participate in expanding traditional disaster exercises involving city and county emergency personnel to include airport and port personnel, transit and infrastructure providers, hospitals, schools, park districts, and major employers.                                                                    | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire and Police Departments                                                                                               | Additional Personnel required.                                                                                                                                                                                   |
| c-12               | b-12                     | Maintain and update as necessary the local government's Standardized Emergency Management System (SEMS) Plan and the National Incident Management System (NIMS) Plan, and submit an appropriate NIMSCAST report.                                                                                                         | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire and Police Departments                                                                                               | Additional Personnel required.                                                                                                                                                                                   |
| c-13               | b-13                     | Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters.                                                                                                                      | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire and Police Departments                                                                                               | Additional Personnel required.                                                                                                                                                                                   |
| c-14               | b-14                     | Install alert and warning systems for rapid evacuation or shelter-in-place. Such systems include outdoor sirens and/or reverse-911 calling systems.                                                                                                                                                                      | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire and Police Departments                                                                                               | Existing system is antiquated. Additional funding needed.                                                                                                                                                        |
| c-15               | b-15                     | Conduct periodic tests of the alerting and warning system. <b>(deleted some wording)</b>                                                                                                                                                                                                                                 | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      | X                                   |          |             |                                                        |                    | Standard practice to conduct tests for employees and staff not the general public.                                        |                                                                                                                                                                                                                  |
| c-16               | b-16                     | Regulate and enforce the location and design of street-address numbers on buildings and minimize the naming of short streets (that are actually driveways) to single homes.                                                                                                                                              | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          | X           |                                                        |                    | Services Assigns Addresses and appoves street names. Fire                                                                 | Standard Practice                                                                                                                                                                                                |
| c-17               | b-17                     | Monitor weather during times of high fire risk using, for example, weather stations tied into police and fire dispatch centers.                                                                                                                                                                                          | WF                    | X                |                               |                                                                                      |                                     |          |             | X                                                      |                    | Fire and Police Departments & Technology Services                                                                         | Standard Practice                                                                                                                                                                                                |

**Government Mitigation Strategies**

| 2009 Strategy Code<br>Original Strategy Number |            | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion, (if study), WHY if not same as regional priority, OR Other Comments |
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| c-18                                           | b-18       | Establish regional protocols on how to respond to the NOAA Monterey weather forecasts, such as the identifying types of closures, limits on work that could cause ignitions, and prepositioning of suppression forces. A multi-agency coordination of response also helps provide unified messages to the public about how they should respond to these periods of increased fire danger. <b>Response should also be modified based on knowledge of local micro-climates. Local agencies with less risk then may be available for mutual aid.</b> | WF                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire Department                                                                                             | Funding Needed                                                                                                                                                                                                    |
| c-19                                           | b-19       | Increase local patrolling during periods of high fire weather.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WF                    |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Fire Department                                                                                             | Funding Needed<br>Additional Personnel required.                                                                                                                                                                  |
| c-20                                           | b-20       | Create and maintain an automated system of rain and flood gauges that is web enabled and publicly-accessible. <b>Work toward creating a coordinated regional system.</b>                                                                                                                                                                                                                                                                                                                                                                          | FL LS                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Fire Department                                                                                             | Funding Needed                                                                                                                                                                                                    |
| c-21                                           | b-21       | Place remote sensors in strategic locations for early warning of hazmat releases or use of weapons of mass destruction, <b>understanding that the appropriate early warning strategy depends on the type of problem.</b>                                                                                                                                                                                                                                                                                                                          | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    |                                                                                                             | Funding Needed                                                                                                                                                                                                    |
| c-22                                           | b-23       | Review and update, as necessary, procedures pursuant to the State Dam Safety Act for the emergency evacuation of areas located below major water-storage facilities.                                                                                                                                                                                                                                                                                                                                                                              | EQ<br>LS<br>FL<br>SEC |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    |                                                                                                             | Funding Needed                                                                                                                                                                                                    |
| c-23                                           | a-8        | <b>Improve coordination among cities, counties, and dam owners so that cities and counties can better plan for evacuation of inundation areas for dams whose failure would impact their jurisdiction.</b>                                                                                                                                                                                                                                                                                                                                         | EQ LS<br>FL<br>SEC    |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    |                                                                                                             | Funding Needed                                                                                                                                                                                                    |
| c-24                                           | b-24       | Develop procedures for the emergency evacuation of areas identified on tsunami evacuation maps as these maps become available.                                                                                                                                                                                                                                                                                                                                                                                                                    | EQ<br>(TS)            |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    |                                                                                                             | Funding Needed                                                                                                                                                                                                    |
| c-25                                           | <b>new</b> | <b>Support and encourage planning and identification of facilities for the coordination of distribution of water, food, blankets, and other supplies, coordinating this effort with the American Red Cross.</b>                                                                                                                                                                                                                                                                                                                                   | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    | Fire Department                                                                                             | Funding Needed                                                                                                                                                                                                    |
| GOVT - d                                       |            | Participate in National, State, Multi-Jurisdictional and Professional Society Efforts to Identify and Mitigate Hazards                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                             |                                                                                                                                                                                                                   |
| d-1                                            | c-1        | Promote information sharing among overlapping and neighboring local governments, including cities, counties, and special districts, as well as utilities.                                                                                                                                                                                                                                                                                                                                                                                         | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | Fire and Public Works                                                                                       | Funding Needed                                                                                                                                                                                                    |

**Government Mitigation Strategies**

| 2009 Strategy Code<br>Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                             | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| d-2                                            | c-2 Recognize that emergency services is more than the coordination of police and fire response, for it also includes planning activities with providers of water, food, energy, transportation, financial, information, and public health services.                                                                                                                                                                     | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Fire and Police                                                                                                                 | Additional Personnel Needed                                                                                                                                                                                      |
| d-3                                            | c-3 Recognize that a multi-agency approach is needed to mitigate flooding by having flood control districts, cities, counties, and utilities meet at least annually to jointly discuss their capital improvement programs for most effectively reducing the threat of flooding. <b>Work toward making this process more formal to insure that flooding is considered at existing joint-agency meetings.</b>              | FL                    |                  |                               | X                                                                                   |                                     |          |             |                                                        |                    | Public Works                                                                                                                    | Standard Practice                                                                                                                                                                                                |
| d-4                                            | c-4 As new flood-control projects are completed, request that FEMA revise its flood-insurance rate maps and digital Geographic Information System (GIS) data to reflect flood risks as accurately as possible.                                                                                                                                                                                                           | FL                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Technology Services/Public Works-Engineering & Transportation                                                                   | Standard Practice                                                                                                                                                                                                |
| d-5                                            | c-5 Participate in FEMA's National Flood Insurance Program.                                                                                                                                                                                                                                                                                                                                                              | FL                    | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering & Transportation                                                                                       | Standard Practice                                                                                                                                                                                                |
| d-6                                            | c-6 Participate in multi-agency efforts to mitigate fire threat, such as the Hills Emergency Forum (in the east Bay), various FireSafe Council programs, and city-utility task forces. <b>Such participation increases a jurisdiction's competitiveness in obtaining grants.</b>                                                                                                                                         | WF<br>FL              |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Fire Department                                                                                                                 | Standard Practice                                                                                                                                                                                                |
| d-7                                            | c-7 Work with major employers and agencies that handle hazardous materials to coordinate mitigation efforts for the possible release of these materials due to a natural disaster such as an earthquake, flood, fire, or landslide.                                                                                                                                                                                      | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire Department-Hazardous Materials Office                                                                                      | Standard Practice                                                                                                                                                                                                |
| d-8                                            | c-8 Encourage staff to participate in efforts by professional organizations to mitigate earthquake and landslide disaster losses, such as the efforts of the Northern California Chapter of the Earthquake Engineering Research Institute, the East Bay Peninsula Chapter of the International Code Council, the Structural Engineers Association of Northern California, and the American Society of Grading Officials. | EQ LS                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Development Services-Building Division & Public Works                                                                           | Standard Practice as Funding Permits                                                                                                                                                                             |
| d-9                                            | c-9 Conduct and/or promote attendance at local or regional hazard conferences and workshops for elected officials <b>and staff</b> to educate the officials on the critical need for programs in mitigating earthquake, wildfire, flood, and landslide hazards.                                                                                                                                                          | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                     |                                     |          |             | X                                                      |                    | Fire and Police                                                                                                                 | Funding Needed                                                                                                                                                                                                   |

**Government Mitigation Strategies**

| 2009 Strategy Code<br>Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                        | Applicable Hazards                               | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| d-10 c-10                                      | Cooperate with researchers working on government-funded projects to refine information on hazards, for example, by expediting the permit and approval process for installation of seismic arrays, gravity survey instruments, borehole drilling, fault trenching, landslide mapping, flood modeling, and/or damage data collection. | EQ LS<br>WF FL<br>SEC                            |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| GOVT - d                                       | Take a Lead in Loss and Risk Assessment Activities                                                                                                                                                                                                                                                                                  |                                                  |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| e-1                                            | e-1 Work with the cities, counties, and special districts in the Bay Area to encourage them to adopt a Local Hazard Mitigation Plan and to assist them in integrating it into their overall planning process. <b>RESPONSIBILITY: ABAG only; all others are "not applicable."</b>                                                    | EQ LS<br>WF FL<br>DR TS<br>SEC<br>Flu Ag<br>Heat |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| e-2                                            | e-2 Improve the risk assessment and loss estimation work in the <i>Taming Natural Disasters</i> report and multi-jurisdictional plan related to natural disasters. <b>RESPONSIBILITY: ABAG only; all others are "not applicable."</b>                                                                                               | EQ LS<br>WF FL<br>DR TS<br>Flu Ag<br>Heat        |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
|                                                |                                                                                                                                                                                                                                                                                                                                     |                                                  |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | ABAG                                                                                                                      |                                                                                                                                                                                                                  |
|                                                |                                                                                                                                                                                                                                                                                                                                     |                                                  |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | ABAG                                                                                                                      |                                                                                                                                                                                                                  |



Economy Mitigation Strategies

| 2009 Strategy Code                                                   |     | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |                                                      |
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| ECON - a - Multi-Hazard                                              |     | a-1                      | <b>Assist in ensuring adequate hazard disclosure by working with real estate agents to improve enforcement of real estate disclosure requirements for commercial and industrial properties with regard to seven official natural hazard zones: 1) Special Flood Hazard Areas (designated by FEMA), 2) Areas of Potential Flooding from dam failure inundation, 3) Very High Fire Hazard Severity Zones, 4) Wildland Fire Zones, 5) Earthquake Fault Zones (designated under the Alquist-Priolo Earthquake Fault Zoning Act), and the 6) Liquefaction and 7) Landslide Hazard Zones (designated under the Seismic Hazard Mapping Act).</b> | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          |             |                                                        |                    | PW, DS-Bldg. & Plan. Divisions                                                                                                  | Information is made available upon request and on website                                                                                                                                                        |                                                      |
| a-2                                                                  | a-2 |                          | Create incentives for private owners of historic or architecturally significant commercial and industrial buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's Guidelines for Rehabilitation                                                                                                                                                                                                                                                              | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |                                                      |
| ECON - b - Soft-Story Commercial Buildings Vulnerable to Earthquakes |     |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                  |                               |                                                                                       |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |                                                      |
| b-1                                                                  | b-1 |                          | Require engineered plan sets for voluntary or mandatory soft-story seismic retrofits by private owners until a standard plan set and construction details become available.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EQ                    |                  |                               |                                                                                       |                                     |          |             |                                                        |                    |                                                                                                                                 | DS, Planning Div                                                                                                                                                                                                 | Amendment to the Zoning Ordinance Scheduled for 2010 |
| b-2                                                                  | b-2 |                          | Adopt the 2009 (changed date) International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory soft-story building retrofits for use in city/county building department regulations. In addition, allow use of changes to that standard recommended by SEAOC for the 2012 IEBC.                                                                                                                                                                                                                                                                                                            | EQ                    |                  |                               |                                                                                       |                                     |          |             |                                                        | X                  |                                                                                                                                 |                                                                                                                                                                                                                  |                                                      |
| b-3                                                                  | b-3 |                          | Work to educate building owners, local government staff, engineers, and contractors on privately-owned soft-story retrofit procedures and incentives using materials such as those developed by ABAG and the City of San Jose (see <a href="http://quake.abag.ca.gov/eqhouse.html">http://quake.abag.ca.gov/eqhouse.html</a> .)                                                                                                                                                                                                                                                                                                           | EQ                    | X                |                               |                                                                                       |                                     |          |             |                                                        |                    |                                                                                                                                 | DS/Bldg. Division                                                                                                                                                                                                | HMC                                                  |
| b-4                                                                  | b-4 |                          | Conduct an inventory of privately-owned existing or suspected soft-story commercial or industrial structures as a first step in establishing voluntary or mandatory programs for retrofitting these buildings.                                                                                                                                                                                                                                                                                                                                                                                                                            | EQ                    |                  |                               |                                                                                       |                                     |          |             |                                                        | X                  |                                                                                                                                 | DS/Bldg. Division                                                                                                                                                                                                | Case By Case Basis                                   |
|                                                                      |     |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                       |                  |                               |                                                                                       |                                     |          |             |                                                        |                    |                                                                                                                                 | DS/Bldg. Division                                                                                                                                                                                                | Funding needed                                       |

Priority (CHECK ONLY ONE)

Economy Mitigation Strategies

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| b-5                | b-5                      | Use the soft-story inventory to require <b>private</b> owners to inform all existing tenants (and <b>prospective</b> tenants prior to signing a lease agreement) that they <b>may</b> work in this type of building.                                                                                            | EQ                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | DS/Bldg Div & Rental Inspection                                                                                                 | Funding needed                                                                                                                                                                                                     |
| b-6                | b-6                      | Use the soft-story inventory to require <b>private</b> owners to inform all existing <b>and prospective</b> tenants that they <b>may</b> need to be prepared to work elsewhere following an earthquake if the building has not been retrofitted.                                                                | EQ                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | DS/Bldg Div & Rental Inspection                                                                                                 | Funding needed                                                                                                                                                                                                     |
| b-7                | b-7                      | Investigate and adopt appropriate financial, procedural, and land use incentives (such as <b>parking waivers</b> ) for <b>private</b> owners of soft-story buildings to facilitate retrofit such as those described by ABAG (see <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> ). | EQ                 |                  |                               |                                                                                     |                                     | X        |             |                                                        |                    | DS/Bldg. & Plan. Divisions                                                                                                      | Funding needed                                                                                                                                                                                                     |
| b-8                | b-8                      | ( <b>reworded</b> ) Explore development of State regulations or legislation to require or encourage <b>private</b> owners of soft-story structures to strengthen them.                                                                                                                                          | EQ                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  |                                                                                                                                 |                                                                                                                                                                                                                    |
| b-9                | b-9                      | Provide technical assistance in seismically strengthening <b>privately-owned</b> soft-story structures.                                                                                                                                                                                                         | EQ                 | X                |                               |                                                                                     |                                     |          | X           |                                                        |                    | DS/Bldg. Division                                                                                                               | Case By Case Basis                                                                                                                                                                                                 |

Economy Mitigation Strategies

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| ECON - c                                                     | Unreinforced Masonry Buildings in Older Downtown Areas                                                                                                                                                                                                                                                                                                                                                                                                | EQ                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                   |
| c-1                                                          | c-1 Continue to actively implement existing State law that requires cities and counties to maintain lists of the addresses of unreinforced masonry buildings and inform private property owners that they own this type of hazardous structure.                                                                                                                                                                                                       | EQ                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | DS-Building Div.                                                                                                          | State Mandate                                                                                                                                                                                                     |
| c-2                                                          | c-2 Accelerate retrofitting of privately-owned unreinforced masonry structures that have not been retrofitted for example, by (a) actively working with owners to obtain structural analyses of their buildings, (b) helping owners obtain retrofit funding, (c) adopting a mandatory versus voluntary, retrofit program, and/or (d) applying penalties to owners who show inadequate efforts to upgrade these buildings.                             | EQ                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | DS-Building Div.                                                                                                          | Additional funds and resources are needed to implement this mitigation strategy.                                                                                                                                  |
| c-3                                                          | c-3 Require private owners to inform all existing (and prospective tenants prior to signing a lease agreement) that they work in an unreinforced masonry building and the standard to which it may have been retrofitted.                                                                                                                                                                                                                             | EQ                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | DS-Building Div.                                                                                                          | State Law                                                                                                                                                                                                         |
| c-4                                                          | c-4 As required by State law, require private owners to inform all existing tenants that they may need to be prepared to work elsewhere following an earthquake even if the building has been retrofitted, for it has probably been retrofitted to a life-safety standard, not to a standard that will allow occupancy following major earthquakes.                                                                                                   | EQ                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | DS/Bldg. Div. & Rental Inspection                                                                                         | State Law & City Policy                                                                                                                                                                                           |
| ECON - d - Privately-Owned Structurally Vulnerable Buildings |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                   |
| d-1                                                          | d-1 Inventory non-ductile concrete, tilt-up concrete, and other privately-owned structurally vulnerable buildings.                                                                                                                                                                                                                                                                                                                                    | EQ                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | DS/Bldg. Div                                                                                                              | Funding needed                                                                                                                                                                                                    |
| d-2                                                          | d-2 Adopt the 2009 International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory retrofit of privately-owned seismically vulnerable buildings.                                                                                                                                                                                                                                                      | EQ                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | DS/Bldg. Div                                                                                                              | Implemented By HMC                                                                                                                                                                                                |
| d-3                                                          | d-3 Adopt one or more of the following strategies as incentives to encourage retrofitting of privately-owned seismically vulnerable commercial and industrial buildings: (a) waivers or reductions of permit fees, (b) below-market loans, (c) local tax breaks, (d) grants to cover the cost of retrofitting or of a structural analysis, (e) land use (such as parking requirement waivers) and procedural incentives, or (f) technical assistance. | EQ                 | X                |                               |                                                                                     |                                     |          |             |                                                        | X                  | DS/Bldg. Div & Redevelopment                                                                                              | Funding needed                                                                                                                                                                                                    |
| ECON - e - Wildfire and Structural Fires                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                   |

Economy Mitigation Strategies

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| e-1                | e-1                      | Increase efforts to reduce hazards in existing <b>private</b> development in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat through improving engineering design and vegetation management for mitigation, appropriate code enforcement, and public education on defensible space mitigation strategies.                                                                                                                           | WF                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | HFD                                                                                                                             | Fire Code and Municipal Code                                                                                                                                                                                     |
| e-2                | new                      | <b>The public education on defensible space and a comprehensive defensible space ordinance to a field program of enforcement.</b>                                                                                                                                                                                                                                                                                                                                                           | WF                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | HFD                                                                                                                             | Fire Code and Municipal Code                                                                                                                                                                                     |
| e-3                | e-2                      | Require that new <b>privately-owned</b> business and office buildings in high fire hazard areas be constructed of fire-resistant building materials and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floor(s) to increase structural survivability and reduce ignitability.                                                                                                                                                   | WF                 |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | HFD                                                                                                                             | Fire Code and Municipal Code                                                                                                                                                                                     |
| e-4                | e-3                      | Adopt and amend as needed updated versions of the <i>California Building and Fire Codes</i> so that optimal fire-protection standards are used in construction and renovation projects of <b>private buildings</b> .                                                                                                                                                                                                                                                                        | WF                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | HFD & Building Div.                                                                                                             | Fire Code and Municipal Code                                                                                                                                                                                     |
| e-5                | e-4                      | Create a mechanism to enforce provisions of the <i>California Building and Fire Codes</i> and other local codes that require the installation of smoke detectors and fire-extinguishing systems by making installation a condition of (a) finalizing a permit for any work on existing <b>privately-owned</b> properties valued at over a fixed amount, such as \$500 or \$1000, and/or (b) on any building over 75 feet in height, and/or (b) as a condition for the transfer of property. | WF                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | HFD & Building Div.                                                                                                             | Standard Practice                                                                                                                                                                                                |
| e-6                | e-5                      | <b>reworded to more closely match the HSNIG strategy</b> Expand vegetation management programs in wildland-urban- interface fire-threatened communities or in areas exposed to high-to-extreme fire threat to more effectively manage the fuel load through roadside collection and chipping, mechanical fuel reduction equipment, selected harvesting, use of goats or other organic methods of fuel reduction, and selected use of controlled burning.                                    | WF                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | HFD & Building Div.                                                                                                             | HMC and FC                                                                                                                                                                                                       |
| e-7                | e-6                      | Establish <b>special funding mechanisms (such as Fire Hazard Abatement District or regional bond funding)</b> to fund reduction in fire risk of existing properties through vegetation management that includes reduction of fuel loads, use of defensible space, and fuel breaks.                                                                                                                                                                                                          | WF                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Community Prevention                                                                                                            | Funding Needed                                                                                                                                                                                                   |

### Economy Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number |      | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY # not same as regional priority, OR Other Comments |
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| e-8                                            | e-7  | Establish <b>special funding mechanisms (such as funding)</b> to fund fire-safety inspections of private properties, roving firefighter patrols on high fire-hazard days, and public education efforts.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WF                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire Department                                                                                                                 |                                                                                                                                                                                                                 |
| e-9                                            | e-8  | Compile a list of <b>privately-owned</b> high-rise and high-occupancy buildings that are deemed, due to their age or construction materials, to be particularly susceptible to fire hazards, and determine an expeditious timeline for the fire-safety inspection of all such structures.                                                                                                                                                                                                                                                                                                                                                                             | WF                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | Fire Department                                                                                                                 |                                                                                                                                                                                                                 |
| e-10                                           | e-9  | Conduct periodic fire-safety inspections of all <b>privately-owned</b> commercial and <b>Industrial</b> buildings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | WF                 |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Fire Department                                                                                                                 | Funding Needed                                                                                                                                                                                                  |
| e-11                                           | e-10 | Work with the State Fire Marshall, the California Seismic Safety, PEER, and other experts to identify and manage gas-related fire risks of <b>privately-owned</b> soft-story mixed use buildings that are prone to collapse and occupant entrapment consistent with the natural gas safety recommendations of Seismic Safety Commission Report SSC-02-03.<br><b>Note - See</b> <a href="http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf">http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf</a> . <b>Also note -</b> any values that are installed may need to have both excess flow and seismic triggers ("hybrid" valves). | EQ<br>WF           |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Fire Department                                                                                                                 | Funding Needed                                                                                                                                                                                                  |
| e-12                                           | e-11 | Ensure that <b>city/county-initiated</b> fire-preventive vegetation-management techniques and practices for creek sides and high-slope areas do not contribute to the landslide and erosion hazard.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | WF                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | Fire Department Services, Community Preservation and Fire Department                                                            | Funding Needed<br>Case By Case with Development application                                                                                                                                                     |
| e-13                                           | e-12 | Work with insurance companies to create a public/private partnership to give a discount on fire insurance premiums to "Forester Certified" Fire Wise landscaping and fire-resistant building materials <b>on private property</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                   | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                 |
| <b>ECON - f - Flooding</b>                     |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                 |
| f-1                                            | f-1  | To reduce flood risk, thereby reducing the cost of flood insurance to <b>private</b> property owners, work to qualify for the highest-feasible rating under the Community Rating System of the National Flood Insurance Program.                                                                                                                                                                                                                                                                                                                                                                                                                                      | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  |                                                                                                                                 |                                                                                                                                                                                                                 |
| f-2                                            | f-2  | Balance the needs for <b>private</b> commercial and industrial development against the risk from potential flood-related hazards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | N/A                                                                                                                             |                                                                                                                                                                                                                 |

### Economy Mitigation Strategies

| 2009 Strategy Code       |     | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                 | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| Original Strategy Number |     |                                                                                                                                                                                                                                                                                                                                                                                              |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| f-3                      | f-3 | Ensure that new <b>private</b> development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, <b>or</b> does not increase runoff by draining water to pervious areas or detention facilities.                                                                                                                   | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | PW, Engineering & DS/Planning Div                                                                                               | All new development by HMC                                                                                                                                                                                       |
| f-4                      | f-4 | Provide sandbags and plastic sheeting to <b>private</b> businesses in anticipation of rainstorms, and deliver those materials to <b>vulnerable populations</b> upon request.                                                                                                                                                                                                                 | FL                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Street Maintenance                                                                                                              | Available for Storms and Flooding as supplies last. Funding is needed.                                                                                                                                           |
| f-5                      | f-5 | Provide information to <b>private business</b> on locations for obtaining sandbags and deliver those sandbags to those various locations throughout a city and/or county.                                                                                                                                                                                                                    | FL                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Street Maintenance                                                                                                              | Available for Storms and Flooding as supplies last. Funding is needed.                                                                                                                                           |
| f-6                      | f-6 | Apply floodplain management regulations for <b>private</b> development in the floodplain and floodway.                                                                                                                                                                                                                                                                                       | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | PW, Engineering & DS/Planning Div                                                                                               | Case By Case basis                                                                                                                                                                                               |
| f-7                      | f-7 | Encourage <b>private</b> business owners to participate in building elevation programs <b>within flood hazard areas</b> .                                                                                                                                                                                                                                                                    | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | PW, Engineering & DS/Planning Div                                                                                               | Case By Case basis/New Development                                                                                                                                                                               |
| f-8                      | f-8 | <b>As funding becomes available</b> , encourage <b>private</b> business owners to participate in acquisition and relocation programs for areas within floodways.                                                                                                                                                                                                                             | FL                 |                  |                               |                                                                                     |                                     | X        |             |                                                        |                    | PW, Engineering & DS/Planning Div                                                                                               | Funding is needed                                                                                                                                                                                                |
| f-9                      | f-9 | Require an annual inspection of approved flood-proofed <b>privately-owned</b> buildings to ensure that (a) all flood-proofing components will operate properly under flood conditions and (b) all responsible personnel are aware of their duties and responsibilities as described in their building's <i>Flood Emergency Operation Plan</i> and <i>Inspection &amp; Maintenance Plan</i> . | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | DS/Bldg. Div.                                                                                                                   | Funding is needed                                                                                                                                                                                                |

Economy Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number |     | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program, Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments                                                  |
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| ECON - 9                                       | 9-1 | Landslides and Erosion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                             |                                                                                                                                                                                                                                                                   |
| g-1                                            | g-1 | Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards for private property, such as those appearing in the California Building Code, California Geological Survey Special Report 117 - Guidelines for Evaluating and Mitigating Seismic Hazards in California, American Society of Civil Engineers (ASCE) report Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California, and the California Board for Geologists and Geophysicists Guidelines for Engineering Geologic Reports. Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance. | LS                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | PW & DS/Bldg. & Planning Div.                                                                               | City of Hayward Hillslope Design and Urban/Wildland Interface Guidelines," adopted February 16, 1993, by Resolution 93-037. "Minimum Design Standards for Drainage and Terracing," as shown on Standard Detail, SD-104; Chapter 10 Article 8-Grading and Clearing |
| g-2                                            | g-2 | Increase efforts to reduce landslides and erosion in existing and future private development through continuing education of design professionals on mitigation strategies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LS                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | PW & DS/Bldg. & Planning Div.                                                                               | Design and Urban/Wildland Interface Guidelines,"                                                                                                                                                                                                                  |
| ECON - h - New Construction and Earthquakes    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                             |                                                                                                                                                                                                                                                                   |
| h-1                                            | h-1 | Continue to require that all new privately-owned commercial and industrial buildings be constructed in compliance with (deleted "structural") requirements of the most recently adopted version of the California Building Code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Bldg. Division                                                                         | HMC                                                                                                                                                                                                                                                               |
| h-2                                            | h-2 | Conduct appropriate employee training and support construction standards for private development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Bldg. Division                                                                         | Policy                                                                                                                                                                                                                                                            |
| h-3                                            | h-3 | Work with private building owners to help them recognize that many strategies that increase earthquake resistance also decrease damage in an explosion. In addition, recognize that ventilation systems can be designed to contain airborne biological agents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EQ<br>SEC          | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Bldg. Division                                                                         | Policy                                                                                                                                                                                                                                                            |

Economy Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| <b>ECON - 1 - Building Reoccupancy</b>         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| I-1                                            | I-1 Institute an aggressive program to encourage owners of private buildings to participate in a program similar to San Francisco's Building Occupancy Resumption Program (BORP). This program permits owners of private buildings to hire qualified structural engineers to create building-specific post-disaster inspection plans and allows these engineers to become automatically deputized as City/County inspectors for these buildings in the event of an earthquake or other disaster. | EQ LS<br>WF FL<br>SEC | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Development Services-Building                                                                                             | Policy                                                                                                                                                                                                           |
| I-2                                            | I-2 Actively notify owners of historic or architecturally significant buildings of the availability of the local BORP-type program and encourage them to participate to ensure that appropriately qualified structural engineers are inspecting their privately-owned buildings, thus reducing the likelihood that the buildings will be inappropriately evaluated following a disaster.                                                                                                         | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Development Services-Planning                                                                                             | Text Amendment and Funding Needed                                                                                                                                                                                |
| I-3                                            | I-3 Actively notify owners of educational facility buildings of the availability of the local BORP-type program and encourage them to participate to ensure that appropriately qualified structural engineers are inspecting their buildings, thus reducing the likelihood that the buildings will be inappropriately evaluated following a disaster.                                                                                                                                            | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Development Services-Planning                                                                                             | Text Amendment and Funding Needed                                                                                                                                                                                |
| I-4                                            | I-4 Allow private building owners to participate in a BORP-type program as described above, but not actively encourage them to do so.                                                                                                                                                                                                                                                                                                                                                            | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           | State Architect                                                                                                                                                                                                  |
| I-5                                            | I-5 Develop and enforce a repair and reconstruction ordinance to ensure that damaged buildings are repaired in an appropriate and timely manner and retrofitted concurrently. This repair and                                                                                                                                                                                                                                                                                                    | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Neighborhood Services/Community Preservation                                                                              | HMC Property Maintenance Requirements. Funding needed.                                                                                                                                                           |
| I-6                                            | I-6 Establish preservation-sensitive measures for the repair and reoccupancy of historically significant privately-owned structures, including requirements for temporary shoring or stabilization where needed, arrangements for consulting with preservationists, and expedited permit procedures for suitable repair or rebuilding of historically or architecturally valuable structures.                                                                                                    | EQ LS<br>WF FL<br>SEC | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Development Services-Planning                                                                                             | Text Amendment and Funding Needed                                                                                                                                                                                |
| <b>ECON - 1 - Public Education</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |

Economy Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program. Existing Program under funded. Very High, High, or Under Study)                                                                                                                              | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| J-1                                            | J-1 Provide information to <b>private</b> business owners and <b>their</b> employees on the availability of interactive hazard maps on ABAG's web site                                                                                                                                                                                                                                                                                                                                  | EQ LS<br>WF FL<br>SEC |                  | XIDS&P<br>W)                  |                                                                                     |                                     |          |             |                                                        |                    | Development Services & Public Works (Existing Program- Underfunded) Neighbohood Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations that include neighborhood businesses (Understudy). | Upon Request and Website                                                                                                                                                                                         |
| J-2                                            | J-2 Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging <b>private</b> businesses' employees to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines.                                                                                                            | EQ LS<br>WF FL<br>SEC |                  | XIDS&P<br>W)                  |                                                                                     |                                     | X (NS)   |             |                                                        |                    | PW, HFD, DS/Bldg. & Planning Divisions ( Existing Program, Underfunded) Neigh. Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations that include neighborhood businesses.               | Funding Needed                                                                                                                                                                                                   |
| J-3                                            | J-3 Develop <b>and</b> print materials, conduct workshops, and provide outreach to Bay Area <b>private</b> businesses focusing on business continuity planning.                                                                                                                                                                                                                                                                                                                         | EQ LS<br>WF FL<br>SEC |                  | XIDS,<br>FD&PW<br>)           |                                                                                     |                                     | X (NS)   |             |                                                        |                    | Economic Development                                                                                                                                                                                                                                         | Funding is Needed                                                                                                                                                                                                |
| J-4                                            | J-4 <b>Inform</b> Bay Area <b>private</b> business owners of mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat, structural retrofitting techniques for older buildings, and use of intelligent grading practices through workshops, publications, and media announcements and events. | WF FL                 |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    | DS/Bldg& Planning Division                                                                                                                                                                                                                                   | Information upon request                                                                                                                                                                                         |

Economy Mitigation Strategies

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| J-5                | J-5                      | Sponsor the formation and training of Community Emergency Response Teams (CERT) training for other than your own employees through partnerships with local private businesses. [Note - these programs go by a variety of names in various cities and areas]                                                                                         | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Neigh. Services to provide relevant materials promoting CERT training opportunities by primary sources via                         | Funding is needed                                                                                                                                                                                                |
| J-6                | J-6                      | Assist private businesses in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.         | WF                    |                  |                               |                                                                                     | X (FD)                              | X (NS)   |             |                                                        |                    | Neighborhood Services                                                                                                              | Program discontinued due to lack of funding                                                                                                                                                                      |
| J-7                | J-7                      | Make use of the materials developed by others (such as found on ABAAG's web site at <a href="http://quake.abag.ca.gov/business">http://quake.abag.ca.gov/business</a> ) to increase mitigation activities related to earthquakes by groups other than your own agency. ABAAG plans to continue to improve the quality of those materials over time. | EQ                    | X (DS, PW & FD)  |                               |                                                                                     |                                     |          | X (NS)      |                                                        |                    | provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations that                 | When materials are available and links on website                                                                                                                                                                |
| J-8                | J-8                      | Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging private businesses and residents to keep storm drains in their neighborhood free of debris.                                                                                                                                                              | FL                    |                  |                               |                                                                                     |                                     |          | X (NS)      |                                                        |                    | PW-Engineering; Neighbohood Services                                                                                               | Standard Practice for Public Works.; Neigh. Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations that include neighborhood businesses.      |
| J-9                | J-9                      | Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the Fire Wise Program. This effort is important because grant funds are currently available to offset costs of specific council-supported projects.                                                   | WF                    | X (PW)           |                               |                                                                                     |                                     |          | X (NS)      |                                                        |                    | Fire Department; Neighborhood Services to support efforts led by Hay; Fire. Dept. in this area.                                    | Funding is needed                                                                                                                                                                                                |
| J-10               | J-10                     | Encourage private businesses and laboratories handling hazardous materials or pathogens increase security to a level high enough to create a deterrent to crime and terrorism, including active implementation of "cradle-to-grave" tracking systems.                                                                                               | SEC<br>EQ             |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Alameda County Fire Department                                                                                                     |                                                                                                                                                                                                                  |
| J-11               | J-11                     | Encourage joint meetings of security and operations personnel at major private employers to develop innovative ways for these personnel to work together to increase safety and security.                                                                                                                                                           | SEC<br>EQ             |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | N/A                                                                                                                                | Case by Case basis                                                                                                                                                                                               |

Economy Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                               | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)                                                        | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments. |
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| J-12               | J-12                     | Inform <b>private</b> shoreline-property owners of the possible long-term economic threat posed by rising sea levels.                                                                                                                      | FL                    |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Development Services-Planning Div.                                                                                                                                                     | Climate Action Plan (CAP)                                                                                                                                                                                         |
| J-13               | J-13                     | Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <a href="http://www.preparnow.org">http://www.preparnow.org</a> website, <b>for private business owners.</b> | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire Department-Neigh. Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations that include neighborhood businesses. | Funding Needed                                                                                                                                                                                                    |



## Housing Mitigation Strategies

| 2009 Strategy Code       |                         | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Applicable Hazards    | Priority (CHECK ONLY ONE) |                               |                                                                                     |                                     |          |             |                                                        | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |                                                                                                                                                                           |  |
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| Original Strategy Number | HSNG - a - Multi-Hazard |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | Existing Program          | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective |                                                                                                                                 |                                                                                                                                                                                                                  | Not Yet Considered                                                                                                                                                        |  |
| a-1                      | a-1                     | Assist in ensuring adequate hazard disclosure by working with real estate agents to improve enforcement of real estate disclosure requirements for residential properties with regard to seven official natural hazard zones: 1) Special Flood Hazard Areas (designated by FEMA), 2) Areas of Potential Flooding from dam failure inundation, 3) Very High Fire Hazard Severity Zones, 4) Wildland Fire Zones, 5) Earthquake Fault Zones (designated under the Alquist-Priolo Earthquake Fault Zoning Act), and the 6) Liquefaction and 7) Landslide Hazard Zones (designated under the Seismic Hazard Mapping Act). | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     |          |             |                                                        | X                                                                                                                               | Development Services & Public Works, Engineering                                                                                                                                                                 | Information is on Hayward Website and available by phone, email and by public counter staff. There is not an active program. It is only by request by real estate agents. |  |
| a-2                      | a-2                     | Create incentives for private owners of historic or architecturally significant residential buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's Guidelines for Rehabilitation.                                                                                                                                                                                                                                                      | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     | X        |             |                                                        |                                                                                                                                 | Development Services-Planning & Building                                                                                                                                                                         | Amendment to HMC by 2010                                                                                                                                                  |  |
| a-3                      | NEW - Was GOVT b-4      | Develop a plan for short-term sheltering of residents of your community in conjunction with the American Red Cross.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EQ LS<br>WF FL<br>SEC |                           | X                             |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | Fire Department                                                                                                                                                                                                  |                                                                                                                                                                           |  |
| a-4                      | NEW - Was GOVT b-4      | Develop a plan for interim housing for those displaced by working with the Regional CPGP that funded this effort in 2009. (Estimated completion is 2011.)                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     |          |             |                                                        | X                                                                                                                               | N/A                                                                                                                                                                                                              |                                                                                                                                                                           |  |

### Housing Mitigation Strategies

| 2009 Strategy Code       |                                                          | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program. Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program. Existing Program under funded; Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| Original Strategy Number | HSNG - b - Single-Family Homes Vulnerable to Earthquakes |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| b-1                      | b-1                                                      | Utilize or recommend adoption of a retrofit standard that includes standard plan sets and construction details for voluntary bolting of homes to their foundations and bracing of outside walls of crawl spaces ("crippler" walls), such as <b>Plan Set A</b> developed by a committee representing the East Bay-Peninsula-Monterey Chapters of the International Code Council (ICC), California Building Officials (CALBO), the Structural Engineers Association of Northern California (SEANOC), the Northern California Chapter of the Earthquake Engineering Research Institute (EERI-NC), and ABAG's Earthquake Program. | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                          | Standard Practice                                                                                                                                                                                                |
| b-2                      | b-2                                                      | Require engineered plan sets for <b>seismic</b> retrofitting of heavy two-story homes with living areas over garages, as well as for split level homes <b>(that is, homes not covered by Plan Set A)</b> , until standard plan sets and construction details become available.                                                                                                                                                                                                                                                                                                                                                | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                          | Standard Practice                                                                                                                                                                                                |
| b-3                      | b-3                                                      | Require engineered plan sets for <b>seismic</b> retrofitting of homes on steep hillsides <b>(because these homes are not covered by Plan Set A)</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                          | Standard Practice                                                                                                                                                                                                |
| b-4                      | b-4                                                      | Encourage local government building inspectors to take classes on a periodic basis, such as the FEMA-developed training classes offered by ABAG on retrofitting of single-family homes, <b>including application of Plan Set A</b> .                                                                                                                                                                                                                                                                                                                                                                                          | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                          | Standard Practice                                                                                                                                                                                                |
| b-5                      | b-5                                                      | Encourage private retrofit contractors and home inspectors doing work in your area to take retrofit classes on a periodic basis, such as the FEMA-developed training classes offered by ABAG or <b>additional classes that might be offered by the CalBO Training Institute</b> on retrofitting of single-family homes.                                                                                                                                                                                                                                                                                                       | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |
| b-6                      | b-6                                                      | Conduct demonstration projects on common existing housing types demonstrating structural and nonstructural mitigation techniques as community models for earthquake mitigation.                                                                                                                                                                                                                                                                                                                                                                                                                                               | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |
| b-7                      | b-7                                                      | Provide retrofit classes or workshops for homeowners in your community, or help promote utilization of subregional workshops in the south bay, east bay, peninsula, and north bay as such workshops become available through outreach using existing community education programs.                                                                                                                                                                                                                                                                                                                                            | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |

### Housing Mitigation Strategies

| 2009 Strategy Code                                                                 | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                    | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program, Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| b-8                                                                                | b-8                      | Establish tool-lending libraries with common tools needed for retrofitting for use by homeowners with appropriate training.                                                                                                                                                                                                     | EQ                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Development Services & Housing/Rehab                                                                              | Employees Only. Additional staff and funding to open to public.                                                                                                                                                  |
| b-9                                                                                | b-9                      | <b>(reworded) Provide financial incentives to owners of single-family homes to retrofit if those retrofits comply with Plan Set A or IEBC 2006 in addition to that provided by existing state law State law that makes such retrofits exempt from increases in property taxes.</b>                                              | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                               |                                                                                                                                                                                                                  |
| HSNG - c - Soft-Story Multifamily Residential Structures Vulnerable to Earthquakes |                          |                                                                                                                                                                                                                                                                                                                                 |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                   |                                                                                                                                                                                                                  |
| c-1                                                                                | c-1                      | Require engineered plan sets for voluntary or mandatory soft-story seismic retrofits by private owners until a standard plan set and construction details become available.                                                                                                                                                     | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                            | Plan Set A                                                                                                                                                                                                       |
| c-2                                                                                | c-2                      | Adopt the 2009 (changed date) International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory soft-story building retrofits for use in city/county building department regulations. In addition, allow use of changes to that standard recommended by SEAOC for the 2012 IEBC.  | EQ                 |                  |                               |                                                                                      |                                     |          |             | X                                                      |                    | Development Services-Building Division                                                                            | CBC adopted                                                                                                                                                                                                      |
| c-3                                                                                | c-3                      | Work to educate building owners, local government staff, engineers, and contractors on privately-owned soft-story retrofit procedures and incentives using materials such as those developed by ABAG and the City of San Jose (see <a href="http://quake.abag.ca.gov/eqhouse.html">http://quake.abag.ca.gov/eqhouse.html</a> .) | EQ                 |                  |                               |                                                                                      |                                     |          |             | X                                                      |                    | N/A                                                                                                               |                                                                                                                                                                                                                  |
| c-4                                                                                | c-4                      | Conduct an inventory of privately-owned existing or suspected soft-story residential structures as a first step in establishing voluntary or mandatory programs for retrofitting these buildings.                                                                                                                               | EQ                 |                  |                               |                                                                                      |                                     | X        |             |                                                        |                    | Development Services-Building Division                                                                            | Funding Needed                                                                                                                                                                                                   |
| c-5                                                                                | c-5                      | Use the soft-story inventory to require private owners to inform all existing tenants (and prospective tenants prior to signing a lease agreement) that they may live in this type of building.                                                                                                                                 | EQ                 |                  |                               |                                                                                      |                                     | X        |             |                                                        |                    | Development Services-Building Division                                                                            | Funding Needed                                                                                                                                                                                                   |
| c-6                                                                                | c-6                      | Use the soft-story inventory to require private owners to inform all existing and prospective tenants that they may need to be prepared to live elsewhere following an earthquake if the building has not been retrofitted.                                                                                                     | EQ                 |                  |                               |                                                                                      |                                     | X        |             |                                                        |                    | Development Services-Building Division                                                                            | Funding Needed                                                                                                                                                                                                   |
| c-7                                                                                | c-7                      | Investigate and adopt appropriate financial, procedural, and land use incentives (such as parking waivers) for private owners of soft-story buildings to facilitate retrofit such as those described by ABAG (see <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> ).                                | EQ                 |                  |                               |                                                                                      |                                     |          |             | X                                                      |                    | N/A                                                                                                               |                                                                                                                                                                                                                  |

### Housing Mitigation Strategies

| 2009 Strategy Code                            |     | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                         | Applicable Hazards | Program Status   |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |                   |
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| Original Strategy Number                      |     |                                                                                                                                                                                                                                                                                                                                                                                                                      |                    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program- Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered |  |   |                                                                                                                                 |                                                                                                                                                                                                                  |                   |
| c-8                                           | c-8 | (reworded) Explore development of State regulations or legislation to require or encourage private owners of soft-story structures to strengthen them.                                                                                                                                                                                                                                                               | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   | X                                                                                                                               | N/A                                                                                                                                                                                                              |                   |
| c-9                                           | c-9 | Provide technical assistance in seismically strengthening privately-owned soft-story structures.                                                                                                                                                                                                                                                                                                                     | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   |                                                                                                                                 | Development Services-Building Division                                                                                                                                                                           | Upon Request      |
| HSNG - d - Unreinforced Masonry Housing Stock |     |                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   |                                                                                                                                 |                                                                                                                                                                                                                  |                   |
| d-1                                           | d-1 | Continue to actively implement existing State law that requires cities and counties to maintain lists of the addresses of unreinforced masonry buildings and inform private property owners that they own this type of hazardous structure.                                                                                                                                                                          | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   |                                                                                                                                 | Development Services-Building Division                                                                                                                                                                           | 100% Compliant    |
| d-2                                           | d-2 | Accelerate retrofitting of privately-owned unreinforced masonry structures that have not been retrofitted for example, by (a) actively working with owners to obtain structural analyses of their buildings, (b) helping owners obtain retrofit funding, (c) adopting a mandatory versus voluntary retrofit program, and/or (d) applying penalties to owners who show inadequate efforts to upgrade these buildings. | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   |                                                                                                                                 | Development Services-Building Division                                                                                                                                                                           | 100 % compliant   |
| d-3                                           | d-3 | Require private owners to inform all existing (and prospective tenants prior to signing a lease agreement) that they live in an unreinforced masonry building and the standard to which it may have been retrofitted.                                                                                                                                                                                                | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |  | X |                                                                                                                                 | N/A                                                                                                                                                                                                              |                   |
| d-4                                           | d-4 | As required by State Law, require private owners to inform all existing tenants that they may need to be prepared to live elsewhere following an earthquake even if the building has been retrofitted, for it has probably been retrofitted to a life-safety standard, not to a standard that will allow occupancy following major earthquakes.                                                                      | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    |  |   |                                                                                                                                 | Development Services-Building Division                                                                                                                                                                           | Standard Practice |

### Housing Mitigation Strategies

| 2009 Strategy Code                          |     | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                        | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |  |
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| Original Strategy Number                    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |  |
| e-1                                         | e-1 | Identify and work toward tying down mobile homes used as year-round permanent residences using an appropriate cost-sharing basis (for example, 75% grant, 25% owner).                                                                                                                                                                                                                                                               | EQ                 |                  |                               |                                                                                      |                                     |          |             | X                                                      |                    | State Ombudsman                                                                                                                 |                                                                                                                                                                                                                  |  |
| e-2                                         | e-2 | Inventory non-ductile concrete, tilt-up concrete (such as converted lofts), and other privately-owned potentially structurally vulnerable residential buildings.                                                                                                                                                                                                                                                                    | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |  |
| e-3                                         | e-3 | Adopt the 2009 International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory retrofit of privately-owned seismically vulnerable buildings.                                                                                                                                                                                                                                        | EQ                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                                             | CBC Adopted                                                                                                                                                                                                      |  |
| e-4                                         | e-4 | Adopt one or more of the following strategies as incentives to encourage retrofitting of privately-owned seismically vulnerable residential buildings: (a) waivers or reductions of permit fees, (b) below-market loans, (c) local tax breaks, (d) grants to cover the cost of retrofitting or of a structural analysis, (e) land use (such as parking requirement waivers) and procedural incentives, or (f) technical assistance. | EQ                 |                  |                               |                                                                                      |                                     |          |             | X                                                      |                    | N/A                                                                                                                             |                                                                                                                                                                                                                  |  |
| HSNG - f - New Construction and Earthquakes |     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |  |
| f-1                                         | f-1 | Continue to require that all new housing be constructed in compliance with (deleted) "structural" requirements of the most recently adopted version of the California Building Code.                                                                                                                                                                                                                                                | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                          | CBC Adopted                                                                                                                                                                                                      |  |
| f-2                                         | f-2 | Conduct appropriate employee training and support continued education to ensure enforcement of building codes and construction standards, as well as identification of typical design inadequacies of housing and recommended improvements.                                                                                                                                                                                         | EQ                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                          |                                                                                                                                                                                                                  |  |
| HSNG - g - Wildfire and Structural Fires    |     |                                                                                                                                                                                                                                                                                                                                                                                                                                     |                    |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |  |
| g-1                                         | g-1 | Increase efforts to reduce hazards in existing private development in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat through improving engineering design and vegetation management for mitigation, appropriate code enforcement, and public education on defensible space mitigation strategies.                                                                          | WF                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire, Community Preservation                                                                                                    | Weed Abatement Program and Disaster Preparedness website information. Program funding needed. Lack of resources and personnel.                                                                                   |  |
| g-2                                         | g-2 | The public education on defensible space and a comprehensive defensible space ordinance to a field program of enforcement.                                                                                                                                                                                                                                                                                                          | WF                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire Department                                                                                                                 | Program funding needed. Lack of resources and personnel.                                                                                                                                                         |  |

### Housing Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| g-3                | g-3                      | Require that new homes in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat be constructed of fire-resistant building materials (including roofing and exterior walls) and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floors) to increase structural survivability and reduce ignitability. <b>Note</b> - See Structural Fire Prevention Field Guide for Mitigation of Wildfires at <a href="http://osfm.fire.ca.gov/structural.html">http://osfm.fire.ca.gov/structural.html</a> . | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire & Development Services-Building Division                                                                                   | Urban/Wildlands Guidelines and CBC                                                                                                                                                                               |
| g-4                | g-4                      | <b>Create or identify "model" properties showing defensible space and structural survivability</b> in neighborhoods that are wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.                                                                                                                                                                                                                                                                                                                                                                     | WF                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Fire                                                                                                                            | Funding Needed                                                                                                                                                                                                   |
| g-5                | g-5                      | Consider fire safety, evacuation, and emergency vehicle access when reviewing proposals to add secondary units or additional residential units in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.                                                                                                                                                                                                                                                                                                                                                | WF                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| g-6                | g-6                      | Adopt and amend as needed updated versions of the <i>California Building and Fire Codes</i> so that optimal fire-protection standards are used in construction and renovation projects of <b>private buildings</b> .                                                                                                                                                                                                                                                                                                                                                                                      | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | DS, Building and HFD                                                                                                            | Hayward Municipal Code                                                                                                                                                                                           |
| g-7                | g-7                      | Create a mechanism to enforce provisions of the <i>California Building and Fire Codes</i> and local housing codes that require the installation of smoke detectors and/or fire-extinguishing systems for <b>privately-owned properties</b> by making installation a condition of (a) finalizing a permit for any work on existing properties valued at over a fixed amount, such as \$500 or \$1000, and/or (b) a condition for the transfer of property if these changes are determined cost-effective strategies.                                                                                       | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | HFD                                                                                                                             | Fire Code                                                                                                                                                                                                        |
| g-8                | g-8                      | Work to ensure a reliable source of water for fire suppression in rural-residential areas through the cooperative efforts of water districts, fire districts, and residents.                                                                                                                                                                                                                                                                                                                                                                                                                              | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | PW Utilities                                                                                                                    | Existing service to Fairview which is outside of EBMUD's service area.                                                                                                                                           |

### Housing Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number |      | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                         | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| g-9                                            | g-9  | Expand vegetation management programs in wildland-urban- interface fire-threatened communities or in areas exposed to high-to-extreme fire threat to more effectively manage the fuel load through roadside collection and chipping, mechanical fuel reduction equipment, selected harvesting, use of goats or other organic methods of fuel reduction, and selected use of controlled burning.                                                      | WF                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Community Preservation & Fire                                                                                                   | Funding and personnel Needed                                                                                                                                                                                     |
| g-10                                           | g-11 | Establish <b>special funding mechanisms</b> (such as Fire Hazard Abatement District or regional bond funding) to fund reduction in fire risk of existing properties through vegetation management that includes reduction of fuel loads, use of defensible space, and fuel breaks.                                                                                                                                                                   | WF                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Community Preservation & Fire                                                                                                   | Funding and personnel Needed                                                                                                                                                                                     |
| g-11                                           | g-12 | Work with residents in rural-residential areas to ensure adequate <b>plans are developed for appropriate</b> access and evacuation in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat. <b>For example, in some areas, additional roads can be created, and in other areas, the communities will need to focus on early warning and evacuation because additional roads are not feasible.</b> | WF                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Fire                                                                                                                            | Funding and personnel Needed                                                                                                                                                                                     |
| g-12                                           | g-13 | Require fire sprinklers in new homes located more than 1.5 miles or a 5-minute response time from a fire station or in an identified high hazard wildland-urban-interface wildfire area.                                                                                                                                                                                                                                                             | WF                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Fire                                                                                                                            | Standard Practice                                                                                                                                                                                                |
| g-13                                           | g-14 | Require fire sprinklers in all new or substantially remodeled multifamily housing, regardless of distance from a fire station.                                                                                                                                                                                                                                                                                                                       | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire & Building Div                                                                                                             |                                                                                                                                                                                                                  |
| g-14                                           | g-15 | Require sprinklers in all mixed use development to protect residential uses from fires started in non-residential areas.                                                                                                                                                                                                                                                                                                                             | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire & Building Div                                                                                                             |                                                                                                                                                                                                                  |
| g-15                                           | g-16 | Compile a list of <b>privately-owned</b> high-rise and high-occupancy buildings which are deemed, due to their age or construction materials, to be particularly susceptible to fire hazards, and determine an expeditious timeline for the fire-safety inspection of all such structures.                                                                                                                                                           | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire                                                                                                                            |                                                                                                                                                                                                                  |
| g-16                                           | g-17 | Conduct periodic fire-safety inspections of all multi-family buildings, as required by State law.                                                                                                                                                                                                                                                                                                                                                    | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire                                                                                                                            | Standard Practice                                                                                                                                                                                                |



### Housing Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                               | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program, Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| h-3                | h-3                      | Ensure that new <b>private</b> development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, <b>or</b> does not increase runoff by draining water to pervious areas or detention facilities. | FL                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Public Works-Engineering                                                                                                  | Standard Practice                                                                                                                                                                                                |
| h-4                | h-4                      | Provide sandbags and plastic sheeting to residents in anticipation of rainstorms, and deliver those materials to <b>vulnerable populations</b> upon request.                                                                                                               | FL                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Public Works                                                                                                              | Standard Practice                                                                                                                                                                                                |
| h-5                | h-5                      | Provide public information on locations for obtaining sandbags and/or deliver those sandbags to those various locations throughout a city and/or county prior to and/or during the rainy season.                                                                           | FL                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Public Works- Streets Division                                                                                            | Website, Radio and TV.                                                                                                                                                                                           |
| h-6                | h-6                      | Apply floodplain management regulations for <b>private</b> development in the floodplain and floodway.                                                                                                                                                                     | FL                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services and Public Works                                                                                     | Standard Practice                                                                                                                                                                                                |
| h-7                | h-7                      | Ensure that new subdivisions are designed to reduce or eliminate flood damage by requiring lots and rights-of-way are laid out for the provision of approved sewer and drainage facilities, providing on-site detention facilities whenever practicable.                   | FL                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Public Works, Engineering                                                                                                 | Flood Plain Ordinance                                                                                                                                                                                            |
| h-8                | h-8                      | Encourage home and apartment owners to participate in home elevation programs <b>within flood hazard areas</b> .                                                                                                                                                           | FL                 |                  |                               |                                                                                      |                                     |          |             | X                                                      |                    | N/A                                                                                                                       |                                                                                                                                                                                                                  |
| h-9                | h-9                      | <b>As funding opportunities become available</b> , encourage home and apartment owners to participate in acquisition and relocation programs for areas within floodways.                                                                                                   | FL                 |                  |                               |                                                                                      |                                     |          |             |                                                        | X                  | N/A                                                                                                                       |                                                                                                                                                                                                                  |
| h-10               | h-10                     | Encourage owners of properties in a floodplain to consider purchasing flood insurance. For example, point out that most homeowners' insurance policies do not cover a property for flood damage.                                                                           | FL                 |                  |                               |                                                                                      | X                                   |          |             |                                                        |                    | Development Services, Planning & Public Works, Engineering                                                                | Informal, on case by case basis                                                                                                                                                                                  |

### Housing Mitigation Strategies

| 2008 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| HSNG - 1           | H-1                      | Landslides and Erosion<br>Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards <b>for private property</b> , such as those appearing in the California Building Code, California Geological Survey Special Report 117 – Guidelines for Evaluating and Mitigating Seismic Hazards in California, American Society of Civil Engineers (ASCE) report Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California, and the California Board for Geologists and Geophysicists Guidelines for Engineering Geologic Reports. Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance. | LS                 | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services & Public Works                                                                                             | CBC, Hayward Municipal Code and Hayward Hillside Design Ordinance                                                                                                                                                |
|                    | H-2                      | Increase efforts to reduce landslides and erosion in existing and future <b>private</b> development through continuing education of design professionals on mitigation strategies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LS                 |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                                 | Case By Case basis as parcels are developed                                                                                                                                                                      |

### Housing Mitigation Strategies

| 2009 Strategy Code                 | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program. Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program. Existing Program under funded, Very High, High, or Under Study)                                                                                                  | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| HSNG - J                           | J-1                      | <b>Building Reoccupancy</b><br>Develop and enforce a <b>repair and reconstruction</b> ordinance to ensure that <b>damaged</b> buildings are repaired in an appropriate and timely manner and retrofitted concurrently. <b>This repair and reconstruction ordinance should apply to all public and private buildings, and also apply to repair of all damage, regardless of cause. See <a href="http://quake.abag.ca.gov/recovery/info-repair-ord.html">http://quake.abag.ca.gov/recovery/info-repair-ord.html</a>.</b> | EQ LS<br>WF FL<br>SEC | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Building Division                                                                                                                                                                                           | Standard Practice                                                                                                                                                                                                |
| J-2                                | NEW                      | Establish preservation-sensitive measures for the repair and reoccupancy of historically significant <b>privately-owned</b> structures, including requirements for temporary shoring or stabilization where needed, arrangements for consulting with preservationists, and expedited permit procedures for suitable repair or rebuilding of historically or architecturally valuable structures.                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     | X        |             |                                                        |                    | Development Services-Planning                                                                                                                                                                                                    | Text Change to HMC in 2010                                                                                                                                                                                       |
| <b>HSNG - K - Public Education</b> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                                                                                                                                  |                                                                                                                                                                                                                  |
| K-1                                | K-1                      | Provide information to residents of your community on the availability of interactive hazard maps showing your community on ABAG's web site.                                                                                                                                                                                                                                                                                                                                                                           | EQ LS<br>WF FL<br>SEC | X                |                               |                                                                                      |                                     |          |             |                                                        |                    | Fire Department/Neighborhood Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations.                                                                          | On Hayward's Website                                                                                                                                                                                             |
| K-2                                | K-2                      | Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging residents to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines.                                                                                                                                                                          | EQ LS<br>WF FL<br>SEC |                  | X                             |                                                                                      |                                     |          |             |                                                        |                    | Fire Department (Existing Underfunded)- Neigh. Services to develop and implement neighborhood-based emergency prep. And response curriculum and program, and deliver to neighborhood groups. (High-Actively looking for Funding) | Funding Needed                                                                                                                                                                                                   |

### Housing Mitigation Strategies

| 2009 Strategy Code<br>Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                 | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)                         | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| K-3                                            | K-3 Inform residents of comprehensive mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in high wildfire threat and wildfire-urban-interface areas, structural retrofitting techniques for older homes, and use of intelligent grading practices through workshops, publications, and media announcements and events. | EQ LS<br>WF FL<br>SEC |                  | X (FD)                        |                                                                                       | X (NS)                              |          |             |                                                        |                    | Fire Department/Neighborhood Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations. | Funding Needed                                                                                                                                                                                                   |
| K-4                                            | K-4 Develop a public education campaign on the cost, risk, and benefits of earthquake, flood, and other hazard insurance as compared to mitigation.                                                                                                                                                                                                                                                          | EQ LS<br>FL<br>SEC    |                  |                               |                                                                                       | X (NS)                              | X (FD)   |             |                                                        |                    | Fire Department- Neigh. Services to provide relevant materials developed by primary sources via neighborhood meetings / neighborhood associations.      | Funding Needed                                                                                                                                                                                                   |
| K-5                                            | K-5 Use disaster anniversaries, such as April (the 1906 earthquake), September (9/11), and October (Loma Prieta earthquake and Oakland Hills fire), to remind the public on safety and security mitigation activities.                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       |                                     | X        |             |                                                        |                    | Fire Department, Library                                                                                                                                | A library program was conducted for the 1906 EQ anniversary                                                                                                                                                      |
| K-6                                            | K-6 Sponsor the formation and training of Community Emergency Response Teams (CERT) training for residents in your community. [Note – these programs go by a variety of names in various cities and areas.]                                                                                                                                                                                                  | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       | X (NS)                              | X (FD)   |             |                                                        |                    | Fire Department/Neighborhood Services/Neigh. Services to provide                                                                                        | Funding Needed                                                                                                                                                                                                   |
| K-7                                            | K-7 Include flood fighting technique session based on California Department of Water Resources training to the list of available public training classes offered by CERT.                                                                                                                                                                                                                                    | FL                    |                  |                               |                                                                                       |                                     | X        |             |                                                        |                    | Fire Department                                                                                                                                         | Funding Needed                                                                                                                                                                                                   |
| K-8                                            | K-8 Institute the neighborhood watch block captain and team programs outlined in the Citizen Corps program guide.                                                                                                                                                                                                                                                                                            | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                       | X (NS)                              |          |             |                                                        |                    | Neighborhood Service Possible strategy to be incorporated into Neigh.-based Emer. Prep. Wkshps.                                                         |                                                                                                                                                                                                                  |
| K-9                                            | K-9 Assist residents in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.                                                                       | WF                    |                  |                               |                                                                                       | X (NS)                              |          |             |                                                        |                    | Neighborhood Service Possible strategy to be incorporated into Neigh.-based Emer. Prep. Wkshps.                                                         | Tools are available to Employees. Funding Needed to make available to the public.                                                                                                                                |

### Housing Mitigation Strategies

| 2009 Strategy Code       |      | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                     | Applicable Hazards |    | Existing Program |                               |                                                                                     |                                     |          |             |                                                        | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |                    |  |  |  |                                                                     |
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| Original Strategy Number |      |                                                                                                                                                                                                                                                                                                                  | EQ                 | LS | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective |                                                                                                                                 |                                                                                                                                                                                                                  | Not Yet Considered |  |  |  |                                                                     |
| K-10                     | K-10 | Train homeowners to locate and shut off gas valves if they smell or hear gas leaking.                                                                                                                                                                                                                            | WF                 | FL |                  |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 |                                                                                                                                                                                                                  |                    |  |  |  |                                                                     |
| K-11                     | K-12 | Develop a program to provide at-cost NOAA weather radios to residents of flood hazard areas <b>that request them, with priority to neighborhood watch captains and others trained in their use.</b>                                                                                                              | FL                 |    |                  |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | X                                                                                                                                                                                                                |                    |  |  |  |                                                                     |
| K-12                     | K-13 | Make use of the materials on the ABAG web site at <a href="http://quake.abag.ca.gov/ixit">http://quake.abag.ca.gov/ixit</a> and other web sites to increase residential mitigation activities related to earthquakes. (ABAG plans to continue to improve the quality of those materials over time.)              | EQ                 |    |                  |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | X                                                                                                                                                                                                                | (FD&NS)            |  |  |  | Links from Hayward Disaster Preparedness Website to ABAG            |
| K-13                     | K-14 | Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging <b>private</b> businesses and residents to keep storm drains in their neighborhood free of debris.                                                                                                                    | FL                 |    |                  |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 | X                                                                                                                                                                                                                |                    |  |  |  |                                                                     |
| K-14                     | K-15 | Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the <i>Fire Wise Program</i> . <b>This effort is important because grant funds are currently available to offset costs of specific council-supported projects.</b> | WF                 |    |                  |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 |                                                                                                                                                                                                                  | X                  |  |  |  | Funding Needed                                                      |
| K-15                     | K-16 | Inform shoreline-property owners of the possible long-term economic threat posed by rising sea levels.                                                                                                                                                                                                           | FL                 |    |                  |                               |                                                                                     |                                     |          |             |                                                        |                                                                                                                                 |                                                                                                                                                                                                                  | X                  |  |  |  | Funding Needed for noticing. Information will be available in 2010. |

### Housing Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                               | Applicable Hazards    | Existing Program | Existing Program, underfunded         | Very High - Unofficial Program- Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate                                        | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)                                      | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| deleted            | K-16                     |                                                                                                                                                                                                            |                       |                  |                                       |                                                                                      |                                     |                                                 |             |                                                        |                    |                                                                                                                                                                      |                                                                                                                                                                                                                  |
| deleted            | K-17                     | Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <a href="http://www.preparednow.org">http://www.preparednow.org</a> website. | EQ LS<br>WF FL<br>SEC | X                | (FD)Spa<br>nish<br>only on<br>Website |                                                                                      | X(NS)                               | Additional<br>Langua<br>ges will<br>be<br>added |             |                                                        |                    | Fire/Neighborhood<br>Services to provide<br>relevant materials<br>developed by<br>primary sources via<br>neighborhood<br>meetings /<br>neighborhood<br>associations. | Funding Needed                                                                                                                                                                                                   |
| deleted            | g-10                     | DELETED - REPLACED BY DISCUSSION OF REVERSE 911 in GOVT c-14.                                                                                                                                              |                       |                  |                                       |                                                                                      |                                     |                                                 |             |                                                        |                    |                                                                                                                                                                      |                                                                                                                                                                                                                  |
| deleted            | K-11                     |                                                                                                                                                                                                            |                       |                  |                                       |                                                                                      |                                     |                                                 |             |                                                        |                    |                                                                                                                                                                      |                                                                                                                                                                                                                  |

### Health Mitigation Strategies

| 2009 Strategy Code                                                                                                                                                                                   | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Applicable Hazards    | Priority (CHECK ONLY ONE) |                               |                                                                                     |                                     |   |          |             | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |                                     |                 |
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| HEAL - a - Hospitals and Other Critical Health Care Facilities (to be filled out by cities, counties, and county health departments, as well as water agencies, public & private hospitals as noted) |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                           |                               |                                                                                     |                                     |   |          |             |                                                                                                                                 |                                                                                                                                                                                                                  |                                     |                 |
|                                                                                                                                                                                                      |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |                           |                               |                                                                                     |                                     |   |          |             |                                                                                                                                 |                                                                                                                                                                                                                  |                                     |                 |
| a-1                                                                                                                                                                                                  | a-1                      | <p><b>Work to ensure that cities, counties, county health departments, and hospital operators coordinate with each other (and that hospitals cooperate with the California Office of Statewide Health Planning and Development - OSHPD) to comply with current state law that mandates that critical facilities are structurally sound and have nonstructural systems designed to remain functional following disasters by 2013. In particular, this coordination should include understanding any problems with obtaining needed funding.</b></p> <p><b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b></p>                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC | Existing Program          | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | X | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective                                                                          | Not Yet Considered                                                                                                                                                                                               | Fire Department                     |                 |
| a-2                                                                                                                                                                                                  | a-2                      | <p>Encourage hospitals in your community to work with OSHPD to formalize arrangements with structural engineers to report to the hospital, assess damage, and determine if the buildings can be reoccupied. The program should be similar to San Francisco's Building Occupancy Resumption Program (BORP) that permits owners of buildings to hire qualified structural engineers to create building-specific post-disaster inspection plans and allows these engineers to become automatically deputized as inspectors for these buildings in the event of an earthquake or other disaster. OSHPD, rather than city/county building departments, has the authority and responsibility for the structural integrity of hospital structures. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b></p> | EQ LS<br>WF FL<br>SEC |                           |                               |                                                                                     |                                     | X |          |             |                                                                                                                                 |                                                                                                                                                                                                                  | Fire Department                     |                 |
| a-3                                                                                                                                                                                                  | a-3                      | <p>Ensure health care facilities are adequately prepared to care for victims with respiratory problems related to smoke and/or particulate matter inhalation. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EQ<br>WF<br>SEC       |                           |                               |                                                                                     |                                     |   |          | N/A         |                                                                                                                                 |                                                                                                                                                                                                                  | County Health and Hayward Hospitals | Not Responsible |
| a-4                                                                                                                                                                                                  | a-4                      | <p>Ensure these health care facilities have the capacity to shut off outside air and be self-contained. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EQ<br>WF<br>SEC       |                           |                               |                                                                                     |                                     |   |          | N/A         |                                                                                                                                 |                                                                                                                                                                                                                  | County Health                       | Not Responsible |

### Health Mitigation Strategies

| 2009 Strategy Code                                                                                                                      | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                   | Applicable Hazards      | Existing Program | Existing Program, underfunded | Very High - Unofficial Program; Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| a-3                                                                                                                                     | a-3                      | Ensure that hospitals and other major health care facilities have auxiliary water and power sources. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, water suppliers, and hospitals</b>                                                                                                                                                                                                                  | EQ LS X<br>WF FL<br>SEC |                  |                               |                                                                                      |                                     |          |             |                                                        |                    | Development Services-Bldg and Planning Divisions                                                                          | On a Case by Case basis as development occurs                                                                                                                                                                    |
| a-6                                                                                                                                     | a-6                      | Work to ensure that county health departments work with health care facilities to institute isolation capacity should a need for them arise following a communicable disease epidemic. <b>Isolation capacity varies from a section of the hospital for most communicable diseases to the entire hospital for a major pandemic flu.</b> <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b> | EQ<br>WF<br>FL<br>SEC   |                  |                               |                                                                                      | X                                   |          |             |                                                        |                    | County Health, Fire Department                                                                                            |                                                                                                                                                                                                                  |
| a-7                                                                                                                                     | a-7                      | Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging employees of these critical health care facilities to have family disaster plans and conduct mitigation activities in their own homes. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b>                            | EQ LS<br>WF FL<br>SEC   |                  |                               |                                                                                      | X                                   |          |             |                                                        |                    | Fire Department                                                                                                           | Funding Required                                                                                                                                                                                                 |
| <b>HEAL - b - Ancillary Health-Related Facilities (including medical offices, pharmacies, free-standing or specialty clinics, etc.)</b> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| b-1                                                                                                                                     | b-1                      | Identify these ancillary facilities in your community. <b>These facilities are not regulated by OSHPD in the same way as hospitals.</b> <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments</b>                                                                                                                                                                                                           | EQ LS<br>WF FL<br>SEC   |                  |                               |                                                                                      | X                                   |          |             |                                                        |                    | Fire Department                                                                                                           | Funding is required                                                                                                                                                                                              |
| b-2                                                                                                                                     | b-2                      | Encourage these facility operators to develop disaster mitigation plans. <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments</b>                                                                                                                                                                                                                                                                          | EQ LS<br>WF FL<br>SEC   |                  |                               | X                                                                                    |                                     |          |             |                                                        |                    | Fire Department                                                                                                           | Funding is required                                                                                                                                                                                              |
| b-3                                                                                                                                     | b-3                      | Encourage these facility operators to create, maintain, and/or continue partnerships with local governments to develop response and <b>business continuity</b> plans for recovery. <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments</b>                                                                                                                                                                | EQ LS<br>WF FL<br>SEC   |                  |                               | X                                                                                    |                                     |          |             |                                                        |                    | Fire Department                                                                                                           | Funding Needed                                                                                                                                                                                                   |
| <b>HEAL - c - Coordination Initiatives</b>                                                                                              |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                  |                               |                                                                                      |                                     |          |             |                                                        |                    |                                                                                                                           |                                                                                                                                                                                                                  |
| c-1                                                                                                                                     | c-1                      | Designate locations for the distribution of antibiotics to large numbers of people should the need arise, as required to be included in each county's Strategic National Stockpile Plan. <b>RESPONSIBLE AGENCIES: County Health Departments</b>                                                                                                                                                                                | FLU<br>SEC              |                  |                               |                                                                                      |                                     |          | N/A         |                                                        |                    | County Health                                                                                                             | City of Hayward does not have a health department.                                                                                                                                                               |

### Health Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Applicable Hazards    | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| c-2                | c-2                      | Ensure that you know the Metropolitan Medical Response System (MMRS) cities in your area. Fremont, Oakland, <b>San Francisco, and San Jose (plus Sacramento and Stockton)</b> are the MMRS cities <b>in or near the Bay Area</b> . MMRS cities are provided with additional federal funds for organizing, equipping, and training groups of local fire, rescue, medical, and other emergency management personnel <b>to respond to a mass casualty event. (The coordination among public health, medical, emergency management, coroner, EMS, fire, and law enforcement is a model for all cities and counties.) RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | Fire Department                                                                                                                 |                                                                                                                                                                                                                  |
| c-3                | c-3                      | Know <b>that</b> National Disaster Medical System (NDMS) uniformed or non-uniformed personnel are within one-to-four hours of your community. These federal resources include veterinary, mortuary, and medical personnel. <b>Teams in or near the Bay Area are headquartered in the cities of Santa Clara and Sacramento. RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals                                                                                                                                                                                                                                                                                       | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | Fire Department                                                                                                                 |                                                                                                                                                                                                                  |
| c-4                | c-4                      | <b>Plan for hazmat related-issues due to a natural or technological disaster. Hazmat teams should</b> utilize the State of California Department of Health Services laboratory in Richmond for confirmation of biological agents and Lawrence Livermore National Laboratory or Sandia (both in Livermore) for confirmation of radiological agents. <b>RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals                                                                                                                                                                                                                                                            | EQ<br>WF<br>FL<br>SEC |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Alameda County FD<br>Haz Mat                                                                                                    | Hayward Fire Department does not respond to Haz Mat situations                                                                                                                                                   |
| c-5                | d-1                      | Create discussion forums for food and health professionals, including, for example, medical professionals, veterinarians, and plant pathologists, to develop safety, security, and response strategies for food supply contamination <b>(at the source, in processing facilities, in distribution centers, and in grocery stores).</b> <b>RESPONSIBLE AGENCIES:</b> County environmental health departments                                                                                                                                                                                                                                                                                           | FL<br>SEC             |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Health Departments                                                                                                              | Hayward does not have a health department                                                                                                                                                                        |
| c-6                | <b>new</b>               | Ensure mental health continuity of operations and disaster planning is coordinated among county departments, (including Public Health and                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EQ LS<br>WF FL<br>SEC |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
|                    | d-3                      | (duplicate information to c-3)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |

### Health Mitigation Strategies

| deleted | 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy   | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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|         |                    | d-4                      | (duplicate information to c-4) |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code                                                                                                                            |     | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                           | Applicable Hazards                | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| <b>INFR - a - Multi-Hazard (...owned by the infrastructure provider filling out this form, including a city, county, or special district)</b> |     |                          |                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| a-1                                                                                                                                           | a-1 | a-1                      | Assess the vulnerability of critical facilities owned by <b>infrastructure</b> operators to damage in natural disasters or security threats, including <b>fuel tanks</b> and facilities owned outside of the Bay Area that can impact service delivery within the region. <b>Note - Infrastructure</b> agencies, departments, and districts are those that operate transportation and utility facilities and networks. | EQ<br>LS<br>WF<br>FL<br>SEC       | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                          | Standard Practice                                                                                                                                                                                                |
| a-2                                                                                                                                           | a-2 | a-2                      | <b>If a dam owner</b> , comply with State of California and federal requirements to assess the vulnerability of dams to damage from earthquakes, seiches, landslides, liquefaction, or security threats.                                                                                                                                                                                                               | EQ<br>LS<br>WF<br>FL<br>SEC       |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | No Dams in Hayward                                                                                                              | No Dams within Hayward                                                                                                                                                                                           |
| a-3                                                                                                                                           | a-3 | a-3                      | Encourage the cooperation of utility system providers and cities, counties, and special districts, <b>and PG&amp;E</b> to develop strong and effective mitigation strategies for infrastructure systems and facilities.                                                                                                                                                                                                | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities, Engineering & Transportation                                                                            | Standard Practice                                                                                                                                                                                                |
| a-4                                                                                                                                           | a-4 | a-4                      | Retrofit or replace critical lifeline <b>infrastructure</b> facilities and/or their backup facilities that are shown to be vulnerable to damage in natural disasters.                                                                                                                                                                                                                                                  | EQ<br>LS<br>WF<br>FL<br>SEC       |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities, Engineering & Transportation                                                                            | Standard Practice                                                                                                                                                                                                |
| a-5                                                                                                                                           | a-5 | a-5                      | Support and encourage efforts of <b>other</b> (lifeline <b>infrastructure</b> ) agencies as they plan for and arrange financing for seismic retrofits and other disaster mitigation strategies. (For example, a city might pass a resolution in support of a transit agency's retrofit program.)                                                                                                                       | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                 | Applicable Hazards                 | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| a-6                | a-6                      | Develop a plan for speeding the repair and functional restoration of <b>water and wastewater</b> systems through stockpiling of shoring materials, temporary pumps, surface pipelines, portable hydrants, and other supplies, such as those available through the Water <b>Wastewater</b> Agency Response Network (WARN). <b>Communicate that plan to local governments and critical facility operators.</b> | EQ<br>LS<br>W/F<br>FL<br>DR<br>SEC |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Public Works-Utilities                                                                                                          |                                                                                                                                                                                                                  |
| a-7                | a-7                      | Engage in, support, and/or encourage research by others <b>(such as USGS, universities, or PEER)</b> on measures to further strengthen transportation, water, sewer, and power systems so that they are less vulnerable to damage in disasters.                                                                                                                                                              | EQ<br>LS<br>W/F<br>FL<br>DR<br>SEC | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities, Engineering & Transportation                                                                            | Standard Practice                                                                                                                                                                                                |
| a-8                | a-8                      | Pre-position emergency power generation capacity (or have rental/lease agreements for these generators) in critical buildings of cities, counties, and special districts to maintain continuity of government and services.                                                                                                                                                                                  | EQ<br>LS<br>W/F<br>FL<br>SEC       | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities & Maintenance Services                                                                                   | Standard Practice                                                                                                                                                                                                |
| a-9                | a-9                      | <b>(REWORDED) Ensure that critical intersection traffic lights function following loss of power by installing battery back-ups, emergency generators, or lights powered by alternative energy sources such as solar. Proper functioning of these lights is essential for rapid evacuation, such as with hazmat releases resulting from natural disasters.</b>                                                | EQ<br>LS<br>W/F<br>FL<br>SEC       | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Transportation                                                                                                     | Standard Practice                                                                                                                                                                                                |
| a-10               | a-10                     | Develop unused or new pedestrian rights-of-way as walkways to serve as additional evacuation routes (such as fire roads in park lands).                                                                                                                                                                                                                                                                      | EQ<br>LS<br>W/F<br>FL<br>SEC       |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    | N/A                                                                                                                             |                                                                                                                                                                                                                  |
| a-11               | a-11                     | Minimize the likelihood that power interruptions <b>will adversely impact lifeline utility systems or critical facilities by ensuring that they have adequate back-up power.</b>                                                                                                                                                                                                                             | EQ<br>LS<br>W/F<br>FL<br>SEC       | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities & Maintenance Services                                                                                   | City Facilities have back-up                                                                                                                                                                                     |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                     | Applicable Hazards                 | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program. Existing Program under funded. Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| a-12               | a-12                     | Encourage replacing above ground electric and phone wires and other structures with underground facilities, and use the planning-approval process to ensure that all new phone and electrical utility lines are installed underground.                                                                                                                                                                                           | EQ<br>LS<br>W/F<br>FL<br>SEC       | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering & Transportation                                                                                       | Standard Practice                                                                                                                                                                                                |
| a-13               | a-13                     | <b>If you own a dam</b> , coordinate with the State Division of Safety of Dams to ensure an adequate timeline for the maintenance and inspection of dams, as required of dam owners by State law, and <b>communicate this information to local governments and the public.</b>                                                                                                                                                   | EQ<br>LS<br>W/F<br>FL<br>SEC       |                  |                               |                                                                                     |                                     |          | N/A         |                                                        |                    | No Dams in Hayward                                                                                                              |                                                                                                                                                                                                                  |
| a-14               | a-14                     | Encourage communication between State <b>Emergency Management Agency (CalEMA)</b> , FEMA, and utilities related to emergencies occurring outside of the Bay Area that can affect service delivery in the region.                                                                                                                                                                                                                 | EQ<br>LS<br>W/F<br>FL<br>DR<br>SEC | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                          | Standard Practice                                                                                                                                                                                                |
| a-15               | a-15                     | Ensure that transit operators, private ambulance companies, cities, and/or counties have mechanisms in place for medical transport during and after disasters that take into consideration the potential for reduced capabilities of roads following these same disasters.                                                                                                                                                       | EQ<br>LS<br>W/F<br>FL<br>SEC       | X                |                               |                                                                                     |                                     |          |             | X                                                      |                    | MTC                                                                                                                             | SF Bay Area Regional Transportation Emergency Management Plan                                                                                                                                                    |
| a-16               | new                      | <b>Recognize that heat emergencies produce the need for non-medical transport of people to cooling centers by ensuring that (1) transit operators have plans for non-medical transport of people during and after such emergencies including the use of paratransit and (2) cities, counties, and transit agencies have developed ways to communicate the plan to the public.</b>                                                | Heat                               |                  |                               |                                                                                     |                                     |          | X           |                                                        |                    | Alameda County                                                                                                                  |                                                                                                                                                                                                                  |
| a-17               | a-16                     | Effectively utilize the <b>Regional Transportation Management Center (TMC) in Oakland</b> , the staffing of which is provided by Caltrans, the CHP and MTC. The TMC is designed to maximize safety and efficiency throughout the highway system. It includes the Emergency Resource Center (ERC) which was created specifically for primary planning and procedural disaster management.<br><b>RESPONSIBLE AGENCY: MTC only.</b> | EQ<br>LS<br>W/F<br>FL<br>SEC       |                  |                               |                                                                                     |                                     | X        |             |                                                        | MTC                | SF Bay Area Regional Trans                                                                                                      |                                                                                                                                                                                                                  |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code     | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                   | Applicable Hazards                  | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program- Existing Program under funded, Very High, High or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| a-18                   | new                      | Develop (with the participation of paratransit providers, emergency responders, and public health professionals) plans and procedures for paratransit system response and recovery from disasters.                                                                                                             | EQ<br>LS<br>WF<br>FL<br>Heat<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | MTC                                                                                                                            | SF Bay Area Regional Transportation Emergency Management Plan. The City of Hayward does not have control over the Paratransit provider during a disaster.                                                        |
| a-19                   | new                      | Coordinate with other critical infrastructure facilities to establish plans for delivery of water and wastewater treatment chemicals.                                                                                                                                                                          | EQ<br>LS<br>WF<br>FL<br>SEC         |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                         | Standard Practice                                                                                                                                                                                                |
| a-20                   | new                      | Establish plans for delivery of fuel to critical infrastructure providers.                                                                                                                                                                                                                                     | EQ<br>LS<br>WF<br>FL<br>SEC         | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Maintenance Services                                                                                                           | Standard Practice                                                                                                                                                                                                |
| a-21                   | new                      | As an infrastructure operator, designate a backup Emergency Operations Center with redundant communications systems.                                                                                                                                                                                           | EQ<br>LS<br>WF<br>FL<br>SEC         |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Fire Department                                                                                                                | Funding is needed to build a seismically sound EOC with Hardwired Equipment                                                                                                                                      |
| a-22                   | new                      | Monitor scientific studies of the Sacramento-San Joaquin Delta and policy decisions related to the long-term disaster resistance of that Delta system to ensure that decisions are made based on comprehensive analysis and in a                                                                               | EQ<br>FL<br>SEC                     |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  |                                                                                                                                |                                                                                                                                                                                                                  |
| INFR - b - Earthquakes |                          |                                                                                                                                                                                                                                                                                                                |                                     |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                |                                                                                                                                                                                                                  |
| b-1                    | b-1                      | Expedite the funding and retrofit of seismically-deficient city- and county-owned bridges and road structures by working with Caltrans and other appropriate governmental agencies.                                                                                                                            | EQ                                  | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering                                                                                                       | Standard Practice                                                                                                                                                                                                |
| b-2                    | b-2                      | Establish a higher priority for funding seismic retrofit of existing transportation and infrastructure systems (such as BART) than for expansion of those systems.                                                                                                                                             | EQ                                  |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering                                                                                                       | Standard Practice                                                                                                                                                                                                |
| b-3                    | b-3                      | Include areas subject to high ground shaking, earthquake-induced ground failure, and surface fault rupture" in the list of criteria used for determining a replacement schedule for pipelines (along with importance, age, type of construction material, size, condition, and maintenance or repair history). | EQ                                  | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                         | Capital Improvement Program                                                                                                                                                                                      |
| b-4                    | b-4                      | Install specially-engineered pipelines in areas subject to faulting, liquefaction, earthquake-induced landsliding, or other earthquake hazard.                                                                                                                                                                 | EQ                                  | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                         | Capital Improvement Program                                                                                                                                                                                      |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                               | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| b-5                | b-5                      | Replace or retrofit water-retention structures that are determined to be structurally deficient, <b>including levees, dams, reservoirs and tanks.</b>                                                                                                                                                                                                                                      | EQ                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities, Engineering & Transportation                                                                      | Capital Improvement Program                                                                                                                                                                                      |
| b-6                | b-6                      | Install portable facilities (such as hoses, pumps, emergency generators, or other equipment) to allow pipelines to bypass failure zones such as fault rupture areas, areas of liquefaction, and other ground failure areas (using a priority scheme if funds are not available for installation at all needed locations).                                                                  | EQ                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                    | Capital Improvement Program                                                                                                                                                                                      |
| b-7                | b-7                      | Install earthquake-resistant connections when pipes enter and exit bridges <b>and work with bridge owners to encourage retrofit of these structures.</b>                                                                                                                                                                                                                                   | EQ                 |                  |                               |                                                                                     | X                                   |          |             |                                                        |                    | Public Works-Utilities                                                                                                    | Pipelines crossing bridges have been studied and are not critical to water deliver                                                                                                                               |
| b-8                | b-8                      | Comply with all applicable building and fire codes, as well as other regulations (such as state requirements for fault, landslide, and liquefaction investigations in particular mapped areas) when constructing or significantly remodeling infrastructure facilities.                                                                                                                    | EQ                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Utilities, Engineering & Transportation                                                                      | Standard Practice                                                                                                                                                                                                |
| b-9                | b-9                      | Clarify to workers in critical facilities and emergency personnel, as well as to elected officials and the public, the extent to which the facilities are expected to perform only at a life safety level (allowing for the safe evacuation of personnel) or are expected to remain functional following an earthquake.                                                                    | EQ                 |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    | N/A                                                                                                                       |                                                                                                                                                                                                                  |
| b-10               | b-10                     | <b>Develop</b> a water-based transportation "system" across the Bay for use in the event of major earthquakes. Implementation of such a system could prove extremely useful in the event of structural failure of either the road-bridge systems or BART and might serve as an adjunct to existing transportation system elements in the movement of large numbers of people and/or goods. | EQ                 |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    | N/A                                                                                                                       |                                                                                                                                                                                                                  |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code  | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                      | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments                                                                                                                            |
|---------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------------------------|-------------------------------------------------------------------------------------|-------------------------------------|----------|-------------|--------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| INFR - c - Wildfire |                          |                                                                                                                                                                                                                                                                                                                                                                                   |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                             |
| c-1                 | c-1                      | Ensure a reliable source of water for fire suppression (meeting acceptable standards for minimum volume and duration of flow) for existing and new development.                                                                                                                                                                                                                   | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire/Public Works, Utilities                                                                                                    | Standard Practice                                                                                                                                                                                                                                                                                                                           |
| c-2                 | c-2                      | Develop a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard (including wildfire threat areas and in wildland-urban-interface areas).                                                                                             | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire/Public Works, Utilities                                                                                                    | Standard Practice                                                                                                                                                                                                                                                                                                                           |
| c-3                 | c-3                      | Develop a defensible space vegetation program that includes the clearing or thinning of (a) non-fire resistive vegetation within 30 feet of access and evacuation roads and routes to critical facilities, or (b) all non-native species (such as eucalyptus and pine, but not necessarily oaks) within 30 feet of access and evacuation roads and routes to critical facilities. | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire/Community Preservation/Public Works, Landscape Architect                                                                   | Hillside Design and Urban/Wildlands Interface Guidelines contains requirements for a 30-foot buffer. Community Preservation administers an annual weed abatement program. The City Landscape Architect actively advocates removal of non-natives and requires the planting of natives in compliance with Bay-Friendly Landscape Guidelines. |
| c-4                 | c-4                      | For new development, ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment.                                                                                                                                                                                               | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire/Development Services/Public Works, Engineering & Transportation                                                            | City Standard Details applied to all new development                                                                                                                                                                                                                                                                                        |
| c-5                 | c-5                      | For new development, enforce minimum road width of 20 feet with an additional 10-foot clearance on each shoulder on all driveways and road segments greater than 50 feet in length in wildfire hazard areas.                                                                                                                                                                      | WF                 |                  | X                             |                                                                                     |                                     |          |             |                                                        |                    | Fire/Development Services/Public Works, Engineering & Transportation                                                            | City Standard Details applied to all new development                                                                                                                                                                                                                                                                                        |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code  | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                          | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| c-6                 | c-6                      | Require that development in high fire hazard areas provide adequate access roads (with width and vertical clearance that meet the minimum standards of the Fire Code or relevant local ordinance), onsite fire protection systems, evacuation signage, and fire breaks.                                                                                                               | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire/Development Services/Public Works, Engineering & Transportation                                              | City Standard Details applied to all new development                                                                                                                                                             |
| c-7                 | c-7                      | Ensure adequate fire equipment road or fire road access to developed and open space areas.                                                                                                                                                                                                                                                                                            | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Fire                                                                                                              | Standard Practice                                                                                                                                                                                                |
| c-8                 | c-8                      | Maintain fire roads and/or public right-of-way roads and keep them passable at all times.                                                                                                                                                                                                                                                                                             | WF                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Maintenance Services/Fire                                                                                         | Standard Practice                                                                                                                                                                                                |
| INFR - d - Flooding |                          |                                                                                                                                                                                                                                                                                                                                                                                       |                    |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                   |                                                                                                                                                                                                                  |
| d-1                 | d-1                      | Conduct a watershed analysis of runoff and drainage systems to predict areas of insufficient capacity in the storm drain and natural creek system.                                                                                                                                                                                                                                    | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering/Alameda County Flood Control                                                             | Standard Practice                                                                                                                                                                                                |
| d-2                 | d-2                      | Develop procedures for performing a watershed analysis to look at the impact of development on flooding potential downstream, including communities outside of the jurisdiction of proposed projects.                                                                                                                                                                                 | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering/Alameda County Flood Control                                                             | Standard Practice                                                                                                                                                                                                |
| d-3                 | d-3                      | Conduct a watershed analysis at least once every ten years unless there is a major development in the watershed or a change in the Land Use Element of the General Plan of the cities or county within the watershed.                                                                                                                                                                 | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering/Alameda County Flood Control                                                             | Standard Practice                                                                                                                                                                                                |
| d-4                 | d-4                      | Assist, support, and/or encourage the U.S. Army Corp of Engineers, various Flood Control and Water Conservation Districts, and other responsible agencies to locate and maintain funding for the development of flood control projects that have high cost-benefit ratios (such as through the writing of letters of support and/or passing resolutions in support of these efforts). | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering                                                                                          | Standard Practice                                                                                                                                                                                                |
| d-5                 | d-5                      | Pursue funding for the design and construction of storm drainage projects to protect vulnerable properties, including property acquisitions, upstream storage such as detention basins, and channel widening with the associated right-of-way acquisitions, relocations, and environmental mitigations.                                                                               | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering/Alameda County Flood Control                                                             | Standard Practice                                                                                                                                                                                                |
| d-6                 | d-6                      | Continue to repair and make structural improvements to storm drains, pipelines, and/or channels to enable them to perform to their design capacity in handling water flows as part of regular maintenance activities. (This strategy has the secondary benefit of addressing fuel, chemical, and cleaning product issues.)                                                            | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering/Maintenance Services                                                                     | Standard Practice                                                                                                                                                                                                |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                          | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments |
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| d-7                | d-7                      | Continue maintenance efforts to keep storm drains and creeks free of obstructions, while retaining vegetation in the channel (as appropriate), to allow for the free flow of water.                                                                                                                                                                                                                                   | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Maintenance Services/Alamed a County Flood Control                                                                             | Standard Practice                                                                                                                                                                                                |
| d-8                | d-8                      | Enforce provisions under creek protection, stormwater management, and discharge control ordinances designed to keep watercourses free of obstructions and to protect drainage facilities to conform with the Regional Water Quality Control Board's Best Management Practices.                                                                                                                                        | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Maintenance Services/Alamed a County Flood Control                                                                             | Standard Practice                                                                                                                                                                                                |
| d-9                | d-9                      | Develop an approach and locations for various watercourse bank protection strategies, including for example, (1) an assessment of banks to inventory areas that appear prone to failure, (2) bank stabilization, including installation of rip rap, or whatever regulatory agencies allow (3) stream bed depth management using dredging, and (4) removal of out-of-date coffer dams in rivers and tributary streams. | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering/Alameda County Flood Control                                                                          | Standard Practice                                                                                                                                                                                                |
| d-10               | d-10                     | Use reservoir sediment or reed removal as one way to increase storage for both flood control and water supply.                                                                                                                                                                                                                                                                                                        | FL                 |                  |                               |                                                                                     |                                     |          |             | X                                                      |                    | N/A                                                                                                                            | N/A                                                                                                                                                                                                              |
| d-11               | d-11                     | Identify critical locally-owned bridges affected by flooding and either elevate them to increase stream flow and maintain critical ingress and egress routes or modify the channel to achieve equivalent objectives.                                                                                                                                                                                                  | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering & Transportation                                                                                      | Standard Practice                                                                                                                                                                                                |
| d-12               | d-12                     | Provide or support the mechanism to expedite the repair or replacement of levees that are vulnerable to collapse from earthquake-induced shaking or liquefaction, rodents, and other concerns, particularly those protecting critical infrastructure.                                                                                                                                                                 | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering & Transportation                                                                                      | Standard Practice                                                                                                                                                                                                |
| d-13               | d-13                     | Ensure that utility systems in new developments are constructed in ways that reduce or eliminate flood damage.                                                                                                                                                                                                                                                                                                        | FL                 | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering and Development                                                                                       | Standard Practice to review projects at development stage                                                                                                                                                        |
| d-14               | d-14                     | Determine whether or not wastewater treatment plants are protected from floods, and if not, investigate the use of flood-control berms to not only protect from stream or river flooding, but also increasing plant security.                                                                                                                                                                                         | FL                 |                  |                               |                                                                                     |                                     | X        |             |                                                        |                    | Public Works-Engineering & Transportation, East Bay Regional Park District completing Study.                                   | Effects of Global warming not addressed. Sea Level Study (first Draft) will be completed in November 2009.                                                                                                       |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                | Applicable Hazards | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, or Under Study) | Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if Study), WHY if not same as regional priority, OR Other Comments |
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| d-15               | d-15                     | Work cooperatively with water agencies, flood control districts, Caltrans, and local transportation agencies to determine appropriate performance criteria for watershed analysis.                                                                                                                          | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                       |                                                                                                                                                                                                                  |
| d-16               | d-16                     | Work for better cooperation among the patchwork of agencies managing flood control issues.                                                                                                                                                                                                                  | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                       |                                                                                                                                                                                                                  |
| d-17               | d-17                     | Improve monitoring of creek and watercourse flows to predict potential for flooding downstream by working cooperatively with land owners and the cities and counties in the watershed.                                                                                                                      | FL                 |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                       |                                                                                                                                                                                                                  |
| d-18               | new                      | Using criteria developed by EPA for asset management, inventory existing assets, the condition of those assets, and improvements needed to protect and maintain those assets. Capture this information in a Geographic Information System (GIS) and use it to select locations for creek monitoring gauges. | FL                 |                  |                               | X                                                                                   |                                     |          |             |                                                        |                    | Public Works-Utilities                                                                                                    | Capital Improvement Program                                                                                                                                                                                      |

**Infrastructure Mitigation Strategies**

| 2009 Strategy Code                     | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Applicable Hazards          | Existing Program | Existing Program, underfunded | Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program); Estimated Cost and Possible Funding Agency (if high priority); Estimated Date of Completion (if study); WHY if not same as regional priority, OR Other Comments |
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| <b>INFR - e - Landslides</b>           |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| e-1                                    | e-1                      | Include "areas subject to ground failure" in the list of criteria used for determining a replacement schedule (along with importance, age, type of construction material, size, condition, and maintenance or repair history) for pipelines.                                                                                                                                                                                                                                                                                                                                                                                                                                                 | LS                          | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering                                                                                                        | Standard Practice                                                                                                                                                                                                |
| e-2                                    | e-2                      | Establish requirements in zoning ordinances to address hillside development constraints in areas of steep slopes that are likely to lead to excessive road maintenance or where roads will be difficult to maintain during winter storms due to landsliding.                                                                                                                                                                                                                                                                                                                                                                                                                                 | LS                          | X                |                               |                                                                                     |                                     |          |             |                                                        |                    | Public Works-Engineering & Development Services-Planning                                                                        | Hillside Design Guidelines                                                                                                                                                                                       |
| <b>INFR - f - Building Reoccupancy</b> |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| f-1                                    | f-1                      | Ensure that critical buildings owned or leased by special districts or private utility companies participate in a program similar to San Francisco's Building Occupancy Resumption Program (BORP). The BORP program permits owners of buildings to hire qualified <b>engineers</b> to create facility-specific post-disaster inspection plans and allows these engineers to become automatically deputized as City/County inspectors for these buildings in the event of an earthquake or other disaster. This program allows rapid reoccupancy of the buildings. <b>Note - A qualified (deleted structural) engineer is a California licensed <b>engineer</b> with relevant experience.</b> | EQ<br>LS<br>WF<br>FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |
| <b>INFR - g - Public Education</b>     |                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                  |                               |                                                                                     |                                     |          |             |                                                        |                    |                                                                                                                                 |                                                                                                                                                                                                                  |
| g-1                                    | g-1                      | Provide materials to the public related to planning for power outages.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | EQ<br>LS<br>WF<br>FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |
| g-2                                    | g-2                      | Provide materials to the public related to family and personal planning for delays due to traffic or road closures, <b>or due to transit system disruption, due to disasters.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EQ<br>LS<br>WF<br>FL<br>SEC |                  |                               |                                                                                     |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                  |

### Infrastructure Mitigation Strategies

| 2009 Strategy Code | Original Strategy Number | Specific Mitigation Strategy                                                                                                                                                                                                                                                                                          | Applicable Hazards                | Existing Program | Existing Program, underfunded | Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed | High - Actively Looking for Funding | Moderate | Under Study | Not Applicable, Not Appropriate, or Not Cost Effective | Not Yet Considered | Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study) | Ordinance or Resolution # (if existing program) Estimated Cost and Possible Funding Agency (if high priority); Estimated Date of Completion (if study); WHY if not same as regional priority; OR Other Comments |
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| g-3                | g-3                      | Provide materials to the public related to coping with reductions in water supply or contamination of that supply <b>BEYOND regulatory notification requirements.</b>                                                                                                                                                 | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC | X                |                               |                                                                                       |                                     |          |             |                                                        | X                  | N/A                                                                                                                             |                                                                                                                                                                                                                 |
| g-4                | g-4                      | Provide materials to the public related to coping with disrupted storm drains, sewage lines, and wastewater treatment (such as that developed by ABAG's Sewer Smart Program).                                                                                                                                         | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC | X                |                               |                                                                                       |                                     |          |             |                                                        |                    | Public Works- Utilities & Maintenance Services                                                                                  | Standard Practice                                                                                                                                                                                               |
| g-5                | g-5                      | Facilitate and/or coordinate the distribution of <b>emergency preparedness or mitigation materials</b> that are prepared by others, such as by <b>making the use of the Internet or other electronic means</b> , or placing materials on community access channels or in city or utility newsletters, as appropriate. | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC | X                |                               |                                                                                       |                                     |          |             |                                                        |                    | Fire/Neighborhood Services                                                                                                      | Website information available. Funding needed for printed materials.                                                                                                                                            |
| g-6                | <b>new</b>               | Sponsor the formation <b>and training</b> of Community Emergency Response Teams (CERT) <b>for the employees of your agency.</b> [Note – these programs go by a variety of names in various cities and areas.]                                                                                                         | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC |                  |                               |                                                                                       | X                                   |          |             |                                                        |                    | Fire                                                                                                                            | Program requires funding.                                                                                                                                                                                       |
| g-7                | <b>new</b>               | Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <a href="http://www.preparednow.org">http://www.preparednow.org</a> website <b>related to Infrastructure Issues.</b>                                                                    | EQ<br>LS<br>WF<br>FL<br>DR<br>SEC | X                |                               |                                                                                       |                                     |          |             |                                                        |                    | Fire/Neighborhood Services                                                                                                      | Information in English and Spanish is provided on the Hayward Disaster Preparedness section of the website. Neighborhood Services is seeking funding to distribute information to community groups.             |

Text to be inserted on Page 7-1 of the Conservation and Environmental Protection Element of the General Plan:

A related plan to the Conservation and Environmental Protection Element is the Local Hazard Mitigation Plan (LHMP), required by the federal law as a condition of receiving hazard mitigation grants after a declared disaster. By law, a Hazard Mitigation Plan must describe the type, location, and extent of all natural hazards that can affect the jurisdiction; describe the jurisdiction's vulnerability to these hazards; include a mitigation strategy that provides the jurisdiction's strategy for reducing the potential losses; and, contain a plan maintenance process. The City of Hayward has adopted The Association of Bay Area Governments (ABAG) adopted the Multi-Jurisdictional Local Hazard Mitigation Plan (MJ-LHMP), "Taming Natural Disasters" as one of the Implementation Programs of the Conservation and Environmental Protection Element (Appendix P). The MJ-LHMP contains a City of Hayward Annex which contains programs and mitigation strategies that implement regional and City policies. City Staff will review the programs and mitigation strategies on an annual basis and the City Council will adopt the updated MJ-LHMP every five years.



**MINUTES OF THE REGULAR MEETING OF THE  
CITY OF HAYWARD PLANNING COMMISSION  
Council Chambers  
Thursday, June 23, 2011, 7:00 p.m.  
777 B Street, Hayward, CA94541**

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**MEETING**

A regular meeting of the Hayward Planning Commission was called to order at 7:00p.m.by Chair Loché.

**ROLL CALL**

Present: COMMISSIONERS: Faria, Lamnin, Lavelle, McDermott, Mendall  
CHAIRPERSON: Loché  
Absent: COMMISSIONER: Márquez

Commissioner Lavelle led in the Pledge of Allegiance.

Staff Members Present: Conneely, Koonze, Philis, Rizk

General Public Present: 19

**PUBLIC COMMENTS**

None

**PUBLIC HEARING**

1. **Conditional Use Permit Application No. PL-2011-0031 – Tribeni Enterprises (Applicant) / Anwar Mirza (Owner) – To Allow a Banquet Hall in Conjunction with an Existing Restaurant - The Property Is Located at 24989 Santa Clara Street**

Director of Development Services David Rizk introduced Associate Planner Tim Koonze who gave a synopsis of the report noting that besides the noise complaints documented in the report, staff also received a letter from the owner of the Lucky grocery store questioning if there was an adequate number of available parking stalls at the shopping center to support a banquet hall. Mr. Koonze said at the time the shopping center was first constructed, the requirement was to have 405 parking stalls, but 456 stalls were provided. Mr. Koonze said the drug store, which previously occupied the Golden Peacock site, accounted for 100 of the 456 parking stalls. The potential number of attendees to the banquet facility is 732, which would require 140 parking stalls, but full capacity was only anticipated to occur about four times a year. Mr. Koonze said the average attendance number was estimated to be around 450 and therefore it was staff's opinion that the 100 stalls would be sufficient. Associate Planner Koonze said concern was also expressed regarding the extent of noticing for the application and the public hearing. Mr. Koonze explained that all property owners and tenants within 300 feet of the project site received notices.

Commissioner Lamnin stated that off-site caterers were currently not allowed to cater events at the Golden Peacock. Associate Planner Koonze confirmed that was correct, but explained that outside caterers would be allowed if the conditional use permit application was approved.

Commissioner McDermott asked if the applicant was in the audience and when confirmed, said she would hold her question until he addressed the Commission.

Citing the letter of concern from Lucky, Commissioner Lavelle asked if parking would ever be allowed on West Harder Road. Associate Planner Koonze confirmed that she meant street parking and pointed out that anyone parking on West Harder would have to walk around the entire building, but said he would check if public parking was allowed. Commissioner Lavelle suggested the dead-end street could be used for temporary event parking for full-capacity banquets.

Commissioner Mendall pointed out that a full-capacity event would strain parking at the center and suggested requiring valet parking that utilized the small parking lot behind Lucky. As an alternative, Associate Planner Koonze suggested the employees use that lot to create space in the main lot, but said he would check the availability of other parking areas.

Commissioner Mendall confirmed that the Golden Peacock had a liquor license and said with a cover charge and live music the facility sounded more like a nightclub and he asked how the City could stop it from being used as such. Associate Planner Koonze explained that the cover charge would only be for general public events. Commissioner Mendall pointed out that the conditions of approval did not limit the number or frequency of such events. Mr. Koonze said if the Golden Peacock hired a facility to operate as a nightclub they would need a nightclub permit, but he agreed that an event could be held every night. Commissioner Mendall said there was a big difference between a banquet hall and a nightclub and expressed concern that more specific language was needed to limit the use to banquets only.

Director of Development Services Rizk concurred that was a difficult line between a nightclub and the special events that could be held at the facility and said the City was focusing on operational standards that would ensure the facility had developed an adequate security plan, had a security team in place, and a limit on noise and hours of operation to control the capacity in which the facility was used.

Commissioner Mendall asked if the use permit were to be approved, would Condition 14, in the Conditions of Approval, preclude a San Leandro caterer from providing food at the hall. Associate Planner Koonze explained that it didn't matter where the caterer's main office was located, just that the caterer obtain a Hayward business license.

Associate Planner Koonze brought Condition of Approval 18f to the attention of the Commissioners explaining the Hayward Police Department asked that the condition be added and it stated, "All security/private patrol guards/operators shall not consume any drugs or alcohol before or during any scheduled event" and requested that the condition be changed to "All security guards shall not consume any drugs or alcohol on the day of or during any event."



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Commissioner Faria noted that the conditions of approval required two security guards for the first 200 guests, and one additional guard for every additional 100 guests, and asked if any guards would be specifically responsible for making sure the back doors were kept shut during events to control access. Associate Planner Koonze said the operator had indicated that security personnel would rotate positions and would monitor service at the bar and conduct a perimeter check that included the back doors. Commissioner Faria expressed concern that guests already inside would open the back doors and Mr. Koonze said guests would not have access to the back doors. He explained that only catering staff and banquet hall staff would have access to the service corridor and the doors. Commissioner Faria said with large events it would be difficult to monitor those doors, but was reassured that the guests would not have access and noted that keeping the doors shut would help control noise.

Regarding condition of approval number two, Commission McDermott asked if all calls made to police would incur a charge for the owner. Assistant City Attorney Maureen Conneely said it would be at the discretion of the Hayward Police Department to determine the seriousness of the call and the drain on department resources. Commissioner McDermott pointed out that the back doors needed to be unlocked for emergency exit purposes, and Associate Planner Koonze said the back doors would have panic hardware that allowed them to be opened from the inside, but would otherwise remain shut.

Commissioner McDermott confirmed with staff that the mention of the auto auction on page four of the report was accidentally included.

Commissioner Lamnin asked if the same staff that served alcohol at the restaurant would also serve alcohol at events and staff confirmed that was correct adding that guests would not be allowed to serve themselves. Commissioner Lamnin also asked if ventilation was adequate with the doors shut, and when staff didn't know she suggested adding that concern to the list for building inspectors.

Regarding concerns expressed earlier by Commissioner Mendall, Commissioner Lamnin said condition of approval 16d which requires permits for live music, dee-jays and dancing might help monitor the use of the facility.

Commissioner Mendall suggested putting alarms on the back doors to control access. Regarding the service corridor that leads to the back doors, he pointed out that the corridor didn't go all the way around the interior of the facility and he asked if that could be made a requirement because the corridor also served as a noise buffer. Associate Planner Koonze said that extending the corridor was a possibility, or, another solution could be to install two "one hour walls." He said it would be up to the applicant's designer and acoustical engineer to come up with a design that would not allow noise to be heard past the property line pursuant to the conditions of approval.

Chair Loché asked if the police had been called for anything other than noise complaints since the Golden Peacock had been in operation and staff said no. Regarding security, Chair Loché

asked how the City could guarantee there would be enough security if the total number of guests was unknown before an event started. Associate Planner Koonze pointed out that having enough security would be the owner's responsibility and if there wasn't enough security they would be in violation of the conditional use permit. Chair Loché said he agreed with other commissioners that parking was a concern, especially if the hall was successful and attendance increased over time, and that he supported exploring valet parking.

Chair Loché opened the Public Hearing at 7:34 p.m.

Lucia Baez, with address on Booker Way, said parking along West Harder Road would cause more noise problems for her with cars coming in and out. She said she was completely against the application for the Golden Peacock because they had not complied with the City's permit process, they did not stop operations when told to do so by the City, and they failed to follow the municipal code. Ms. Baez said when the owners first applied for a permit they said they were a restaurant with a small banquet facility. After their New Year's Gala when City staff went to the facility, she said their story changed and they identified themselves as a banquet facility. On May 6 and 7, 2011, she said she filed another noise complaint and on May 9, 2011, the owner was told not to operate as a banquet hall until a conditional use permit was approved. Three weeks later, on May 29<sup>th</sup>, she said they held another event that police said had over 600 guests. Ms. Baez said the Golden Peacock failed to follow the municipal code for public nuisance and the thumping bass of the music made it impossible for her to sleep. She explained that she had lived at her present address for 19 years and although she was the only one complaining to the City, other neighbors had complained to her, and employees from surrounding businesses in the center had told her that they had experienced problems with parking during large events. Ms. Baez also said that Kenkoy's Grill staff have had people coming in looking for the Golden Peacock restaurant because no business hours are posted and the restaurant didn't appear to be open. She concluded by requesting that if the banquet hall was approved, have events end by 10 p.m. so music also ends, enforce conditions rather than assess penalties, which can be written off as the cost of doing business, and not allow any public events because that would make it a nightclub. She said they also needed a sound wall.

Kim Huggett, president of the Hayward Chamber of Commerce, with business address on Main Street, pointed out that when Centennial Hall was closed the community lost a resource. He explained that the Chamber has 600 businesses and associations in its membership and they formed a non-profit alliance. He pointed out that if the alliance, made up of 57 non-profits in Hayward, each wanted to hold two fundraisers a year, that would be 114 events all looking for a facility large enough to hold an event. Mr. Huggett noted that currently, the largest facility could seat 240 and was located at Cal State East Bay. He concluded by saying that this business was being handed to them on a silver platter from a satellite community, was already successful, and was located right off the freeway so it could serve regional traffic as well as local. He encouraged the Commission to approve the use permit application. He also reminded the Commissioners that police officers responding to noise complaints on May 6<sup>th</sup> and 29<sup>th</sup> conducted a sound check and noise from the freeway was louder than any noise emanating from the facility.

Anwar Mirza, a Danville resident and part-owner of the Golden Peacock building with business address on Santa Clara Street, said about three years ago when Rite Aid left, Lucky made a deal with the center that another drug store could not come in. For two years the building was vacant and then about a year ago, Mr. Mirza said they started using the space as a banquet hall. He said he



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received verbal approval from the Council and at that time, a restaurant was not part of the consideration and the plans for the facility did not include one. Construction plans went back and forth and events were only being held on the weekend, he said, when the City indicated that they wanted activity during the week as well and asked him if he would consider opening a restaurant, which he did after securing all necessary permits. The banquet hall opened the first of January, he said, and the restaurant about a month ago. Mr. Mirza pointed out that the restaurant was only about 12% of the building and if anything, the restaurant was based on the banquet hall and not the other way around. He said he was shocked that this hearing was taking place because the banquet hall was already approved and he wouldn't have invested three-quarters of a million dollars if he thought the banquet hall, along with the restaurant, wasn't already approved.

Dr. Dharam Salwan, with Tribeni Enterprises with a business address on Fremont Boulevard in Fremont, said Golden Peacock had been his tenant in Fremont for seven and half years before the property was sold to Eden Housing and replaced by senior housing. Dr. Salwan said operators of the Golden Peacock were very professional and had a good reputation with Fremont Police, City leaders, and the Indian community all over the Bay Area. He said they always maintained security and never had any problems in the seven and half years. Dr. Salwan said the Golden Peacock would be a great asset for the City of Hayward.

Ravi Bhatnagar, resident of Union City, with a business address on Santa Clara Street in Hayward, and operator of the Golden Peacock, said they are new to Hayward, but not to the business. He said they were delighted when the space became available in Hayward because the building was perfectly suited for a banquet hall and restaurant use and Hayward was the "Heart of the Bay." He pointed out that business for a restaurant comes from the neighborhood, but business for a banquet hall comes from all over. Mr. Bhatnagar said business was coming from as far away as Morgan Hill, Petaluma and even Fresno and with such a central location, he felt Hayward would be very conducive for a banquet hall use. He said Hayward was experiencing an economic and business resurgence with a lot of incentives being offered, and had a very diverse community, which was good for business.

Mr. Bhatnagar pointed out that his track record in Fremont was very good and they worked closely with the police, Fremont Chamber of Commerce, education foundations and the different communities. He said he shared Commissioner Mendall's concern that the facility might slip into a nightclub, and agreed with Mr. Rizk that it was a fine line between the two, but pointed out that his background and track record show that was not his intention and not how he operated. He said nightclubs were for a very young audience and the Golden Peacock was family oriented with children allowed at all events. Mr. Bhatnagar pointed out that families and children were at the New Year's Gala and magic shows were provided for their entertainment. That was the focus of his business, he said, and there was no desire to run a nightclub.

Mr. Bhatnagar also shared the concern that the rear doors remain closed and said an alarm system had been installed that allowed egress from the front door but not the back. He concluded by saying that the original approval was for banquet hall with the restaurant being added later, and that it

didn't make sense to just operate a restaurant in a 20,000 square foot facility. He said his neighbor, who owned Kenkoy's Grill Pilipino restaurant, was delighted that the facility was there and wanted to speak in support of the application but couldn't because the restaurant was very busy at this hour. Mr. Bhatnagar spoke on the owner's behalf saying that a banquet hall would be a way for him to expand his business and said it was a win-win situation for the both of them. Mr. Bhatnagar said all caterers working at the facility must have an established track record, and must meet all City requirements including a Hayward business license.

Commissioner Mendall asked Mr. Bhatnagar why the alarm system didn't sound when the doors were opened during some of larger events that received noise complaints. Mr. Bhatnagar explained that the system was not in place for the New Year's Gala and on the other occasion the doors were opened because the air conditioning was not working. Mr. Bhatnagar said on May 29<sup>th</sup> when the police responded to a noise complaint, they found no disturbance. Commissioner Mendall said he wanted to make sure the alarm system was working and the doors remained shut in consideration of neighbors.

Commissioner Mendall asked Mr. Bhatnagar how he felt about being required to extend the corridor around the entire interior of the restaurant. Mr. Bhatnagar said they had hired an audio engineer to do a sound impact of the building and he found the corridor was not necessary. Mr. Bhatnagar said he would consider Commissioner Mendall's request to extend the corridor, but he asked that the Commission consider the audio engineer's report first.

Commissioner Lamnin asked him to explain his advertising plan. Mr. Bhatnagar said the Golden Peacock did not plan to spend big money on advertising because word of mouth was the most effective advertisement with happy guests and customers referring more customers to the business. Because they had been in business for over seven years, Mr. Bhatnagar said most customers were returning customers or were referred to the facility. He said they would advertise on church bulletin boards and would hand out flyers at churches, use media such as a website, and perhaps some radio ads, particularly on ethnic channels.

Commissioner Lamnin asked if a deposit was required when someone booked the facility and Mr. Bhatnagar said yes.

Commissioner Mendall asked for confirmation that most events were by invitation only and asked if they ever host events where the general public was allowed. Mr. Bhatnagar confirmed most events were private and explained that events open to the general public were usually fundraisers for non-profit organizations and the people who attend had purchased tickets prior to the event. Mr. Bhatnagar said his business did not encourage events that only have liquor or were limited to lectures or talks. He said more than 90% of events included food service. Commissioner Mendall explained that he was trying to craft language for the conditions of approval that would allow for banquets but prevent nightclub activities. He asked Mr. Bhatnagar if he would be comfortable with limiting the number of events open to the public or only hold events for non-profits and Mr. Bhatnagar said he was comfortable with those conditions pointing out the New Year's Gala was organized by a non-profit organization. Mr. Bhatnagar said they were open to any reasonable suggestion and reiterated that they did not want to run a nightclub.



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Chair Loché asked Mr. Bhatnagar if he would be open to required valet parking if large events reached capacity. Mr. Bhatnagar pointed out that very few events happen during the day and the ones that did were smaller, usually limited to 200-250 people. Chair Loché asked the typical hours for a large event and Mr. Bhatnagar responded 7 p.m. to midnight. He said the only time they have reached a capacity crowd in the history of the business was on New Year's Eve. Mr. Bhatnagar said typically, large events have about 500 guests.

Adil Maharaj, with Pacific Sounds Inc. on Amour Drive in Santa Clara, said that he conducted tests at the Golden Peacock in response to noise complaints and made recommendations to the owner, some of which had already been implemented. Mr. Maharaj said recommendations included resealing the exterior doors with weather stripping to close gaps. He pointed out that the area of the facility where the gap in the service corridor was located did not include an exterior door and was a solid concrete wall, which was a sufficient noise barrier.

Mr. Maharaj said they also suggested amplified noise be kept to certain levels and tests were conducted outside the building during both the day and at night at those levels. At all times Mr. Maharaj said ambient noise from the freeway was high. He said the result of one test conducted at night with interior noise levels held at 60 dbs (decibels) found no noise being heard over the freeway. When testing their recommendation to keep interior noise levels to less than 106 dbs, results still showed no gain in ambient noise levels at the rear exterior property line, he said. In an attempt to see what interior noise level would be needed to exceed the ambient freeway noise at midnight at the rear property line, he said the sound level inside had to be at 1180 dbs, which was louder than a rock concert. He concluded by saying that as long as the rear doors and the interior doors leading to the service corridor remained closed, no noise should be leaving the facility that would exceed the exterior ambient noise.

Chair Loché asked when the noise tests were conducted and Mr. Maharaj said he did his initial study at the end of May, made his recommendations, and took the measurements the night previous to the public hearing after all the recommended "fixes" for noise control had been made. Mr. Maharaj said his recommendations also included a vendor list of talent, sound companies and disc jockeys.

Chair Loché asked if any measurements were taken from Kenkoy's Grill restaurant next door and Mr. Maharaj said no, he hadn't been aware that there were any noise issues with them.

Commissioner Mendall pointed out that bass beats travel through the ground rather than freeway noise that travels through the air. Commissioner Mendall said Ms. Baez had complained specifically about the bass beat and he asked what could be done to address that concern. Mr. Maharaj started to explain that the service corridors were open when the complaint was made, but Commissioner Mendall asked Mr. Maharaj to assume all doors were shut and the bass was still too loud, what else could be done. Mr. Maharaj said the facility could go with a "fixed install" so noise levels couldn't vary, but said they would have to bring in a larger sound system, doubling the power, to have any noise register outside with the improvements that had been made. Mr. Maharaj reiterated that if

doors were kept shut there should be no problem. Commissioner Mendall suggested they take measurements from Ms. Baez's house and Mr. Maharaj said they would be willing to do that. Mr. Maharaj said from his experience, the issue was controllable.

Commissioner Faria asked Mr. Maharaj how many recommendations were made and how many were followed. Mr. Maharaj said the main recommendation was keeping the doors shut when there was amplified sound and resealing the doors. He said one roll up door at the south building wall of the facility was still being sealed. Commissioner Faria asked him how many recommendations were made and he said about a dozen recommendations and almost all had been satisfied. Commissioner Faria asked if any pending recommendations would make a difference and Mr. Maharaj said "everything helps."

Chair Loché closed the Public Hearing at 8:13 p.m.

Commissioner Mendall asked staff for confirmation that the Golden Peacock already had a permit to operate a banquet hall and restaurant, and that catered events were allowed as long as the food came from their restaurant and staff said yes. Commissioner Mendall also confirmed that the facility was in compliance for past events as long as the food served was from the restaurant, and staff said yes. Commissioner Mendall asked if the restaurant was open and operating as such and Mr. Koonze said when he was there it was set up for restaurant service and when he called the day the restaurant opened, he was told there were restaurant patrons. Mr. Koonze also said their website indicated the restaurant was now open.

Chair Loché said he went by Kenkoy's Grill that afternoon and the owner said he didn't know about the public hearing until that day. Being the closest neighbor to the Golden Peacock, Chair Loché expressed disappointment that he wasn't able to participate in the discussion.

Commissioner Lavelle said she appreciated all the public comments especially Mr. Huggett's because she completely agreed that Hayward needed a banquet hall and said Hayward had been losing business to neighboring communities. She also pointed out that the City wanted full capacity at shopping plazas and this one was located at an entryway to the City. She agreed with the owners' comment that Hayward had a multi-ethnic society with many communities that liked to hold large parties. She said there wasn't a lot of space for them to do that and the Golden Peacock was the perfect location and facility. Commissioner Lavelle said she appreciated the requirements staff suggested and if followed, complaints would be kept to a minimum, security and safety made paramount, and the facility would be successful.

Commissioner Lavelle strongly urged the owners to meet with neighbors along Booker Way to alleviate any further complaints. She said comments from the consultant satisfied her concerns regarding noise, but the consultants findings wouldn't be proven until the next large event. Commissioner Lavelle acknowledged the courage of Ms. Baez to come forward with her remarks and said Ms. Baez was right; just because the other neighbors didn't come to the meeting didn't mean they didn't have complaints. That said, Commissioner Lavelle said one complaint wasn't enough for the Commission to deny the application.

Commissioner Lavelle made a motion to find the proposed project Categorical Exempt from the California Environmental Quality Act (CEQA) Guidelines, Section 15301, Existing Facilities, and



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approve the conditional use permit subject to the findings and conditions of approval. Commissioner Lavelle included in her motion the addition of Condition 29 which would require that valet parking shall be made available when the banquet hall had an anticipated capacity of 650 or more (which she pointed out would only be a handful of times a year). She said how the valet parking was made available would have to be worked out between the applicant and City staff. Commissioner Mendall seconded the motion.

Commissioner Mendall said he was in complete agreement with Commissioner Lavelle, saying it was a much needed banquet facility in Hayward. He welcomed the business and said the conditions of approval were put in place to ensure the business was run the manner everyone wanted it to be run, and the way the applicant had stated he intended to run it. Commissioner Mendall supported the additional condition by Commissioner Lavelle and suggested another condition that limited non-invitation only events to fundraisers by non-profits.

Assistant City Attorney Maureen Conneely clarified that he meant non-invitation only events that were sponsored by non-profits and Commissioner Mendall said yes.

Mr. Bhatnagar clarified that he said most of the ticketed events were non-profit fundraisers but not 100%. He said there may be a few organized by the Golden Peacock as a business. Commissioner Mendall asked Mr. Bhatnagar if he would be willing to limit the number of open events that are not sponsored by a non-profit and Mr. Bhatnagar agreed to ten events.

Commissioner Mendall reiterated the condition and Commissioner Lavelle agreed. He then asked that “At the discretion of the Police Chief” be added to the beginning of Condition No. 2 (regarding reimbursement of costs associated with Hayward Police responding to calls associated with the Golden Peacock), so no one was discouraged from calling the police, but owners were also not held responsible for every cost.

Assistant City Attorney Conneely clarified that the additional should read, “At the discretion of the Police Chief or his/her designee.” Commissioner Mendall confirmed with Commissioner Lavelle that the addition was acceptable and she said yes.

Commissioner Mendall said with those recommendation he would happily support the motion and he encouraged the owners to take sound measurements at Ms. Baez’ house during the next big event and alleviate the problem if one was found.

Commissioner McDermott said any incoming facility needed to be a good neighbor not only with homeowners, but with other retail businesses and suggested that notification be given to neighboring businesses if a large event was scheduled during the day when their business could be impacted. Being the president of a non-profit organization, Commissioner McDermott agreed with Mr. Huggett that banquet facilities were needed in Hayward and pointed out that most non-profits sponsor very important causes that benefit residents. She concluded by saying she was familiar with

the Golden Peacock in Fremont, agreed they had an excellent reputation, and was supportive of the application.

Commissioner Faria reiterated to the owners of the Golden Peacock that all recommendations made by the sound engineer should be implemented to ensure noise problems were mitigated.

Commissioner Lamnin thanked Ms. Baez for representing the neighbors and the community and said she hoped communication would continue. She said she was in support of the motion. Commissioner Lamnin pointed out that by issuing a conditional use permit the City could enforce that sound, security, and parking was appropriate to protect the neighborhood as well as bring a vital service to the community. She agreed there was a desperate need for the facility. She encouraged the owners to reach beyond churches to other faith communities, non-profit communities, hotels, and cross reference with other smaller banquet facilities in the City to help each other. She also suggested working with Kenkoy's Grill to determine if any designated parking spaces were necessary.

Chair Loché also agreed with the need for the facility in a City as large and diverse as Hayward. He said he liked that the Commission could look at an established track record, and said it appeared the Golden Peacock was a well-run business. The fact that the City needed a business like this didn't alleviate the need to be a good neighbor and Chair Loché agreed with Commissioner Lamnin that a conditional use permit would allow the Commission and the City to review how things were progressing and make sure that the changes that had been made were making a significant difference for the people who lived in the area and the neighboring businesses. If intended impacts were not being made, he noted the Commission could ask to review the permit and that put his mind at ease. Chair Loché said he would be supporting the motion and said he looked forward to some nice functions.

The motion passed 6:0:1 (Márquez absent).

AYES: Commissioners Faria, Lamnin, Mendall, McDermott, Lavelle  
Chair Loché

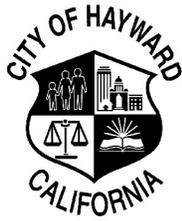
NOES:

ABSENT: Commissioner Márquez

ABSTAINED:

- 2. General Plan Amendment Application No. PL-2011-0195, Text Amendment Application No. PL-2011-0196, and Zone Change Application No. PL-2011-0197 – City of Hayward (Applicant) - Certification of a Supplemental Environmental Impact Report and Introduction and Adoption of Zoning Changes and Amendments to the General Plan, Zoning Ordinance and Related Municipal Code Sections to Enact and Implement the South Hayward BART/Mission Boulevard Form-Based Code**

Director of Development Services David Rizk gave a synopsis of the report concluding with an acknowledgement of the hard work of consultants, City staff and the community on one of the largest ever land-use projects, and the first Form-Based Code development, in the City of Hayward. He said the development process had been enjoyable and innovative.



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Chair Loché thanked Director of Development Services Rizk for the report and agreed that the process had been hugely educational.

Commissioner Mendall confirmed with staff that the parking and transportation demand management (TDM) strategy plan mentioned in the report was not going to be approved as part of the vote that evening, and asked when it would be. Director of Development Services Rizk said he estimated within the next 12 months, or sooner, depending on work load, and clarified that the parking plan was envisioned to be for the entire City. He said staff was already working with the consultant to development draft ordinance language. Commissioner Mendall said the proposed parking management zones were critical for areas where parking maximums were going to be put in place and expressed concern about approving Form-Based Code projects without first having a parking plan in place. Mr. Rizk agreed and said staff hoped to have a residential parking benefit district in place before construction was complete at the South Hayward BART station and that City staff was already working with BART to accomplish this.

Commissioner Mendall confirmed that any projects completed before the parking district was formed would be included and Director of Development Services Rizk said conditions associated with project entitlements would require that the projects be included in the district. He said the main concern was parking on public streets and said some parking for BART riders would be allowed, but similar to the area around Chabot College, parking permits would ensure the availability of parking for residents and their guests.

Commissioner Mendall asked if Director of Development Services Rizk expected all of the specific TDM and parking strategy recommendations to be adopted and Mr. Rizk said it was too soon to tell.

Regarding the massing and height of buildings along the eastside of Mission Boulevard, Commission Mendall mentioned past discussions for new development near Prospect Hill, further north on Mission, and said at that time there was Commission support to require rooftop treatments or gardens as a mitigating factor when new developments were proposed below established residential developments. He asked if those same provisions could be included in the current recommendations and included in discussions for future developments. Director of Development Services Rizk said it wasn't too late to include that recommendation to City Council and while staff didn't anticipate as many situations as with the Prospect Hill development, it could be included if that was what the Commission wanted.

Commission Lamnin said she appreciated the responsiveness by staff to community feedback. Regarding accessibility, she noted that commercial retail uses had a zero rise, but residential and lodging developments had a two foot rise. She asked how that would impact accessibility. Director of Development Services Rizk explained that each development was required to have at least one unit with universal design accessibility measures incorporated.

Commissioner Lamnin said she had recently attended a training session for the Hearth Act, which related to how homeless services were provided and she asked if rapid-rehousing and drop-in center services focused on moving people into housing could be included in future General Plan Housing Element discussions and language included in the emergency shelter provisions mentioned in the report.

Commissioner Lamnin said she also appreciated that urban farming was allowed under the Form-Based Code, but pointed out it was not the same as gardening, as indicated in the definitions, and suggested staff review the language.

Regarding the denial of value-added food preparation activities mentioned in the report, Commissioner Lamnin said she understood that health and safety regulations would have to be followed, but not allowing that activity could limit jobs. Director of Development Services Rizk said staff had concerns that food preparation would not be a desirable activity around residential neighborhoods and did not support the activity. She confirmed that bee keeping was also not allowed and staff pointed out these activities would be better for a less urban area. Commissioner Lamnin noted that these activities support a healthy community and suggested staff reconsider its position as code decisions were made throughout the City.

Commissioner Lamnin noted that group homes was an allowed use under the Code and suggested more oversight to eliminate on-going problems already occurring in group homes downtown. She said the city needed more leverage, such as appropriate use permits, to keep them under compliance. Director of Development Services Rizk said the City was limited by state law, but that new standards included in the Code should minimize problems that have occurred in the past with some group homes. Commissioner Lamnin asked if there were any distance-between-facility restrictions on the group home or homeless emergency shelter program if it was run by a religious organization and Mr. Rizk said no, limits were based on the use or function, not who operated it. The half-mile restriction included in the report applied to typical places of assembly, including religious facilities, which would front onto Mission Boulevard, he said.

Commissioner Lamnin said she read that developers are notified of additional fees for fire and police equipment during the final phase of the development plan and she asked if an estimate of cost and the likelihood of those costs could be provided sooner and staff said yes.

Commissioner Faria asked how the City was going to be assured that sufficient parking would be available for high density and density bonus areas. Director of Development Services Rizk said those areas would be subject to same standards and ratios as units without density bonuses. Mr. Rizk pointed out that, like other similar progressive codes, since the Form-Based Code only listed the *maximum* number of parking spots allowed, the market would dictate how much on-site parking would be provided. Mr. Rizk said most developers will want some on-site parking, but a fundamental approach under the Form-Based Code was to give developers the flexibility of utilizing street parking as part of their parking demand strategies.

Regarding the technical studies and the market analysis conducted in the fall of 2009 cited in the report, Commissioner Faria asked if the findings were still valid since the economy had changed since then. Director of Development Services Rizk said some variables and factors may have



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changed, but the studies were done at the gross level for an envisioned multi-decade development. Given the scale of the analysis and the fact that the City would have to find the funds to revise it, Mr. Rizk said the report still gives decision-makers a general idea of what the expected fiscal impacts of development potential would be. He also mentioned that based on the number of permits recently processed and applications received, the level of development activity had been picking up and that would be consistent with the aforementioned market analysis.

Chair Loché asked how Section 10.24.135(b) of the Form-Based Code could be reworded to not limit the ability of staff, the Commission, or Council, to make adjustments to a development plan. Director of Development Services Rizk said the easiest solution would be to delete it, which would allow the usual site plan review process to dictate and allow findings to be made in terms of the appropriateness of the details of a development plan. Chair Loché said he had a concern about the potential limits this section could place on the City and would consider deleting it. Director of Development Services Rizk said it was included in part to fulfill one of the goals and objectives of the Code, which was to provide some consistency and predictability for the development community. Chair Loché said, as a Commissioner, he wanted to have the control of knowing what a development was going to look like and what the final outcome would be.

Related to the Program Supplemental Environmental Impact Report, Chair Loché asked staff to further explain revisions to the mitigation measure developed to reduce level of service traffic impacts at the Harder/Mission intersection. Director of Development Services Rizk explained that in the final Environmental Impact Report, wording was modified to reduce the potential for a right-away take. The reasons for the modified language included the elimination of the split phasing timing for traffic signals, which was subsequently determined not to be needed based on previous conservative assumptions, he said.

Chair Loché opened the Public Hearing at 9:22 p.m.

Anthony Varni, representing the Felson family with business address on A Street in Hayward, said the Planning Commission was being asked to do a lot of things and noted that the complicated staff report took him two days to read. He said the real issue was the adoption of overriding considerations, even though there are some air quality issues that were created by the expansion of this area. Mr. Varni said the air quality issues hadn't been completely addressed, and were being justified by benefits of design. He explained that the Felson family had about 430 units east of Mission Boulevard that were going to be impacted by the proposed project heights, views, light, and air corridors. He said the Felsons agreed with the staff recommendation that potential densities and building heights west of the Felson property be reduced by changing the proposed zoning designation from T5 to T4 or limited to four stories. He said the Felsons were also supportive of deleting Section 10.24.135(b) in the Form-Based Code. Mr. Varni said the Felson family felt some conditions should be placed on developments, to address potential impacts of views from the Felson property, including the suggestion from Commissioner Mendall that roofs should be screened or

made more architecturally acceptable for the residents above them. He said that kind of flexibility might require the loss of unit or two or impact the height of the building, and by leaving in Code Section 10.24.135(b), the City would lose that flexibility. Mr. Varni pointed out that even with a building height limit of 57 feet, there were still items on the roof, including air conditioning units and elevator towers, that exceed that height. He concluded by saying the Felson family was using a housing form that had been proven over time and if the City was going to approve a Code that would negatively impact air quality, then that Code should at least work with the existing Felson housing.

Commissioner Lamnin asked Mr. Varni to be more specific about what air quality measures he was concerned about. Mr. Varni said the staff report contained the new air quality standards, which require certain actions to be taken before the new units are constructed, and those standards apply to everything within 500 feet of Mission Boulevard. He said the Felson property was located within the 500 foot range and therefore was included under the new guidelines, and that those units were not built with the new standards in mind. For example, he said under the new guidelines, windows can't be opened. He pointed out that to have a housing form in which people want to live, you can't take everything away from them including the view, air and light corridors, and then not allow them to open windows either. Mr. Varni said at some point the guidelines can ruin the existing housing form or, in other words, the Felson's 430 units.

Commissioner Mendall asked Form-Based Code consultant Mr. Kevin Colin to comment on the proposal to delete Section 10.24.135(b) from the Code. Mr. Colin said he wrote it with the purpose of providing a high level of certainty, but it was the Commission's job to decide what was best for the community, and he had no recommendation on whether to eliminate it or keep it. Mr. Colin said he has been really impressed with Director of Development Services Rizk and his staff because they have "really been owning the Code," which was a good sign, because speaking as a former municipal planner, to own a Code meant Mr. Rizk and his staff knew the Code, could apply it, and could take advantage of the tool it provided to add value to the community. Mr. Colin said such knowledge and ownership will allow Mr. Rizk and the staff to steer a development into a positive direction by taking advantage of that tool. Commissioner Mendall asked for confirmation that deleting the section would not break for Form-Based Code model and Mr. Colin said it really came down to how the Code would be administered and that if changes were made without evidence and rational reasoning, it could send a bad message to the business community. "But if you apply it in good faith you really won't have a problem," he said.

Chair Loché closed the Public Hearing at 9:33

Commissioner McDermott said the process had been arduous, and pointed out that three of the Commissioners had been to all the meetings and were very familiar with the project. She told Mr. Varni that he made her feel so much better because reading the report took her a number of days to read and digest because she was a new Commissioner and the amount of information was overwhelming. She acknowledged the input from the community and noted that it was unfortunate that Mr. Cameron's handwriting was unreadable because it appeared he had gone to a great deal of effort to communicate his thoughts. She suggested that in the future, a phone number be included in case staff had any questions for commenters. She also noted the very good suggestions from Mr. Stanke and said she really appreciated the visual aids he included. She then thanked staff and said



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she hoped the community outreach and communication would continue as the project moved forward.

Commissioner Lamnin made a motion to approve staff recommendation with three amendments: downgrade the Mission Paradise Project site and properties to the north of that site proposed to be zoned T5 from T5 to T4; eliminate section 10.24.135(b) from the Form-Based Code; and require rooftop improvements to reduce visual impacts on future buildings that could impact views from existing buildings at higher elevations on the east side of Mission Boulevard. Commissioner Lamnin pointed out that the last amendment would build consistency since making rooftops more attractive was included in a past discussion regarding the other form-based code to the north. Regarding the deletion of Section 10.24.135(b), she said she was absolutely in favor of making the process easier for developers, but she appreciated all the input from the community and wanted the City to have the ability to respond to that input.

Commissioner Mendall seconded motion and said it was exactly the motion he was going to make. He said form-based codes were a new way of planning and very different from how the City had been doing it. He said that from everything he'd seen so far, it was a superior way of doing planning. He acknowledged such opinion was a preliminary judgment, because nothing had been built under the Code. He also said he was glad there was a five year review process, but with so much community input so early in the process, he said he couldn't imagine how that could not lead to a better end result for property owners, for nearby property owners, for potential business owners, and for developers. Commissioner Mendall said a lot of modifications had been made based on input from those groups including Mr. Stanke, whom he noted had put in a lot of his own time.

Commissioner Mendall commented that the telecommunication requirements in the Code were good and should be adopted city-wide, and height limit additions were good too. He noted that the most frequent objection the Commission hears when considering density was the height of proposed buildings. He said incorporating both a story and a height limit in feet made sense and said he fully supported the Mission Paradise property being downgraded to a T4. The provisions that were discussed for the other Form-Based Code project that could require a roof top garden would be a benefit here and he asked that staff craft some language that at least referenced rooftop improvements in the Code so developers wouldn't be surprised by the request later and would know this was something that could mitigate height impact concerns and might make the Commission more likely to approve a tall building that affected nearby existing buildings.

Commissioner Mendall said the parking strategy plan was important and he would feel better once that was in place, although staff comments alleviated some of his concerns. He said the linear park, the greenbelt that stretched from Industrial Boulevard to Harder Street, was wonderful and he was pleased to see it in the final plan. He concluded by saying "The proof is going to be in pudding," in how the City implements the Code. He said the Commission would have to remember the neighborhood design concept and make sure that the proposed neighborhood centers actually become neighborhoods with a center and a focus and not just a bunch of houses. He commended staff and said he hoped the City developed more form-based codes in the future.

Commissioner Lavelle acknowledged that she was one of the Commissioners who had attended approximately 25 meetings in preparation for the Code. She said the adoption of a form-based code was unique and trend-setting for Hayward. She said she supported the motion and the additional items from Commissioner Lamnin. In the staff report, Commissioner Lavelle said the purpose of the Code was explained and specific reasons why the Code was of value were listed and her favorite was letter “I,” which read: “That the harmonious and orderly evolution of urban areas be secured through form-based codes.” She said she looked forward to participating in that process. She concluded by saying that the Code will certainly present a challenge to policy makers and leaders in the community, and while staff and the Commission had spent a lot of time preparing this “incredible document,” she said she hoped leaders, in particular elected officials, would be aggressive with City staff to make sure it really happens. The Code, she said, will help make Hayward more modern and a beautiful city in which to live and will help attract people to live in the community.

Chair Loché said he hadn’t heard anything he disagreed with, had also been to quite a few meetings and discussions, and said it had been a pleasure to see the Code develop. Chair Loché said along with the green building ordinance, he sees the City moving in a new direction in development. He confirmed with staff that the downgrade from T5 to T4 would only impact the Mission Paradise property and Director of Development Services Rizk explained that the downgrade would also impact a couple of properties to the north of Mission Paradise to keep the area consistent.

The motion passed 6:0:1 (Márquez absent).

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| AYES:      | Commissioners Faria, Lamnin, Mendall, McDermott, Lavelle<br>Chair Loché |
| NOES:      |                                                                         |
| ABSENT:    | Commissioner Márquez                                                    |
| ABSTAINED: |                                                                         |

Chair Loché congratulated the consultants and City staff and thanked them for their hard work.

### **COMMISSION REPORTS:**

#### 3. Oral Report on Planning and Zoning Matters

Commissioner Lamnin asked if any meetings were scheduled for July and Director of Development Services Rizk said not at this time, but that could change.

#### 4. Commissioners’ Announcements, Referrals

None

### **APPROVAL OF MINUTES**

#### 5. Minutes from June 9, 2011, approved unanimously.



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**ADJOURNMENT**

Chair Loché adjourned the meeting at 9:49p.m.

**APPROVED:**

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Mariellen Faria, Secretary  
Planning Commissioner

**ATTEST:**

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Suzanne Philis, Senior Secretary  
Office of the City Clerk