



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

**Town of Moraga**



## Table of Contents

Introduction.....	3
The Regional Planning Process .....	3
The Local Planning Process.....	3
Process for Updating Plan Sections .....	4
Review and Incorporation of Existing Information .....	4
Public Meetings .....	4
Hazards Assessment.....	5
Past Occurrences of Disasters (natural and human-induced) .....	5
Risk Assessment .....	6
Urban Land Exposure .....	6
Infrastructure Exposure.....	7
Exposure of Town-Owned Buildings, Plus Critical Healthcare Facilities and Schools.....	8
Repetitive Loss Properties .....	10
Other risks.....	10
National Flood Insurance Program.....	10
Mitigation Goals and Objectives .....	11
Mitigation Activities and Priorities.....	11
Evaluation of Progress from 2007 Plan .....	11
Future Mitigation Actions and Priorities .....	12
On-Going Mitigation Strategy Programs.....	14
Incorporation into Existing Planning Mechanisms.....	14
Plan Update Process.....	14
Mitigation Plan Point of Contact .....	15
Exhibit A – Jurisdictional Map.....	16
Exhibit B –Public Meeting Announcements.....	17



## Introduction

The Town of Moraga is a small town in Contra Costa County, California. Situated in the San Francisco Bay Area, just east of the Oakland Hills, the Town is 9.3 square miles (a jurisdictional map of the Town is included in Exhibit A). The Town has a population of 16,016 people, based on the 2010 census<sup>1</sup>. In fiscal year 2010-2011, the Town's budget was \$9.1 million including an operating budget of \$6.1 million, reflecting 33.5 authorized staff positions. The Town currently owns and maintains approximately 40,000 square feet of office and institutional/recreational space (including the library), and also own, operates, and/or maintains other infrastructure including traffic signals, roads and sidewalks, portions of the storm drain system, and several hundred streetlights. The Town provides local police services. Partial services for policing such as communications are contracted with the Contra Costa County Sheriff's Department. Fire services are provided by a separate fire district (Moraga/Orinda Fire Protection District). Building inspection services and permitting are provided by Contra Costa County. Moraga has experienced disasters including the Loma Prieta Earthquake of 1989, and localized flooding during the winter of 2005/2006.

## The Regional Planning Process

The Town of Moraga participated in various ABAG workshops, conferences, and meetings, including the following:

- ABAG Local Hazard Mitigation Plan Update Workshop – May 8, 2009
- Comments to the ABAG Multi-Jurisdictional Local Hazard Mitigation Plan were provided in September 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 Town of Moraga has provided written and oral comments on the multi-jurisdictional plan and provided information on facilities that are defined as “critical” to ABAG. The Town also held public meetings on September 23, 2009 and November 30, 2010 and made the information available for public input on the Town of Moraga website in September 2009 and November 2010.

## The Local Planning Process

Representatives from multiple Town departments met on a periodic basis to identify and prioritize appropriate mitigation strategies. Personnel involved in these meetings included senior management and staff from Public Works/ Engineering, Planning, Recreation, and Police Departments. Each person present represented their department with respect to the information

---

<sup>1</sup> For complete Census information on this Town, see <http://www.bayareacensus.ca.gov/>.



necessary to prioritize the strategies and provide information on potential funding sources. Town staff met in a collaborative approach to identify and review the various elements of the process.

General priorities and appropriate departments were identified. Mitigation strategies, prioritized said strategies, and reviewed preliminary budgets and potential funding sources for strategies designated as “High” priority for Town-owned-and-operated facilities were identified.

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

The Town last participated in the LHMP process in 2007. Staff began the update process by reviewing the 2007 Plan. Staff then reviewed Town records in order to provide new information on hazards and susceptibility within the Town. The updates include updated information on risk assessment with new data provided by ABAG.

### ***Review and Incorporation of Existing Information***

The following documents were reviewed and incorporated into this annex.

<b>Existing Plans, Studies, Reports, and Technical Information</b>	<b>Method of Incorporation into the City of Orinda Annex</b>
General Plan, Health and Safety Element	Hazard Assessment Mitigation Strategies
Capital Improvement Plan	Hazard Assessment Mitigation Strategies
Emergency Response Plan	Hazard Assessment Mitigation Strategies

### ***Public Meetings***

Opportunity for public comments on the DRAFT mitigation strategies was provided at two public meeting at the Hacienda de Las Flores and advertised on the Town of Moraga website. The draft mitigation strategies were also published on the Town of Moraga website for public viewing. No public comments were received from either the meetings or the internet posting. Copies of the internet posting are included as Exhibit B to the Town of Moraga 2010 Annex.

In the future, public notification regarding the Annex update will be expanded by contacting additional media. Additionally, future updates of the plan could include coordination with neighboring cities in a public outreach effort. This may allow the adjacent jurisdictions to make the process more informative and potentially elicit greater public comment.

The Town Council will adopt the plan in a public meeting via an official Resolution upon approval by FEMA. The mitigation strategies will become an implementation appendix of the Safety Element of the Town of Moraga 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, five related to earthquakes (faulting, shaking, earthquake-induced landslides, liquefaction, and tsunamis) and four related to weather (flooding, landslides, wildfires, and drought). Maps of these hazards and risks are shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

The Town of Moraga has reviewed the hazards identified and ranked the hazards based on past disasters and expected future impacts. The conclusion is that earthquakes (particularly shaking), flooding (including dam failure), wildfire, and landslides (including unstable earth) pose a significant risk for potential loss.

The Town of Moraga does not face any natural disasters not listed in the ABAG multi-jurisdictional plan and no new hazards have been identified by the Town of Moraga since the original development of this plan in 2005.

The most detailed and current general hazard maps of the Town of Moraga are those shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

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

The Town of Moraga has experienced a number of different disasters over the last 50 years, including numerous earthquakes, floods, droughts, wildfires, energy shortages, civil disturbances, landslides, and severe storms. The Oakland Hills Firestorm of 1991, for example, ranks as one of the worst wildland-urban firestorm disasters to ever strike the United States with 25 deaths, 150 injuries, and the displacement of over 10,000 persons. With destruction and damage to over 3,400 residential units, losses were in excess of \$1.5 Billion.

The Loma Prieta Earthquake of 1989 is another example of the kind of large scale disaster which can strike the Bay Area. It killed 63 persons, injured 3,757, and displaced over 12,000 persons. With over 20,000 homes and businesses damaged and over 1,100 destroyed, this quake caused approximately \$6 Billion of damage. Reconstruction continues some two decades later as the replacement for Oakland-Bay Bridge is still several years from completion.

More information on State and Federally declared disasters in Town of Moraga can be found at <http://quake.abag.ca.gov/mitigation/ThePlan-D-Version-December09.pdf>

In addition to the declared disasters noted in Appendix D, locally significant incidents that have also impacted Town of Moraga in the last several years include:

- Landslides in the hills on the north side of Town, including one on Rheem Blvd that closed the roadway in 1986.



- Localized flooding. The Town was included in Federally Declared Disasters 1628 and 1644 (New Years Storms 2006) which resulted in significant storm related damage in the Town.

## **Risk Assessment**

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

The Town of Moraga examined the hazard exposure of Town of Moraga 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 Town of Moraga is decreasing over time as the amount of urban land decreases (In the last 5 years, 193 acres of land has become less urban due to rezoning). Town of Moraga actually reduced the acres of urban land in the 100 year flood zone over the last 5 years due to changes in the new FEMA flood maps. The following table describes the exposure of urban land within the Town of Moraga to the various hazards.



<b>Exposure (acres of urban land)</b>			
<b>Hazard</b>	<b>2005</b>	<b>2010</b>	<b>Change</b>
<i>Total Acres of Urban Land</i>	3960	3767	(193)
Earthquake Faulting (within CGS zone) <sup>2</sup>	0	0	0
Earthquake Shaking (within highest two shaking categories)	1891	1892	1
Earthquake-Induced Landslides (within CGS study zone) <sup>3</sup>	N/A	N/A	
Liquefaction (within moderate, high, or very high liquefaction susceptibility)	928	853	(75)
Flooding <sup>4</sup> (within 100 year floodplain)	89	80	(9)
Flooding (within 500 year floodplain)	51	61	10
Landslides (within areas of existing landslides)	1820	1555	(265)
Wildfire (subject to high, very high, or extreme wildfire threat) <sup>5</sup>	885	699	(216)
Wildland-Urban Interface Fire Threat	3702	3512	(190)
Dam Inundation (within inundation zone)	116	131	15
Tsunamis <sup>6</sup> (within inundation area)	not applicable		
Drought <sup>7</sup>	3960	3767	(193)

<sup>2</sup> No active faults run within the Town.

<sup>3</sup> The California Geological Survey has not yet completed mapping in the Town of Moraga. However, because few areas have been mapped as landslides, this hazard is viewed as similar to that posed by weather-related hazards.

<sup>4</sup> Urban land exposure to flooding decreased due to better and more accurate mapping.

<sup>5</sup> The decrease is due to better and more accurate mapping.

<sup>6</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. Acres of exposed land are 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>7</sup> The entire Town of Moraga is subject to drought.

## **Infrastructure Exposure**

The Town of Moraga 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>. Of the 76 miles of roadway in the Town of Moraga, the following are exposed to the various hazards analyzed.



Exposure (miles of infrastructure)						
Hazard	Roadway		Transit		Rail	
	2005	2010	2005	2010	2005	2010
<i>Total Miles of Infrastructure</i>	76	76	0	0	0	0
Earthquake Shaking (within highest two shaking categories)	40	43	0	0	0	0
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	17	0	0	0	0	0
Liquefaction Hazard (within CGS study zone) <sup>1</sup>	0	0	0	0	0	0
Earthquake-Induced Landslides (within CGS study zone) <sup>2</sup>	0	0	0	0	0	0
Earthquake Faulting (within CGS zone)	0	0	0	0	0	0
Flooding (within 100 year floodplain)	2	1	0	0	0	0
Flooding (within 500 year floodplain)	1	3	0	0	0	0
Landslides (within areas of existing landslides)	28	24	0	0	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	10	7	0	0	0	0
Wildland-Urban Interface Fire Threat	72	72	0	0	0	0
Dam Inundation (within inundation zone)	3	4	0	0	0	0
Tsunamis <sup>3</sup>	not applicable					
Drought <sup>4</sup>	not applicable					

<sup>1</sup> 76 miles of roadway are outside the area that has been evaluated by CGS for this hazard

<sup>2</sup> The California Geological Survey continues to map Contra Costa County.

<sup>3</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>4</sup> Drought is not a hazard for roadways.

### **Exposure of Town-Owned Buildings, Plus Critical Healthcare Facilities and Schools**

The Town of Moraga examined the hazard exposure of critical health care facilities and schools located within the Town of Moraga and City-owned buildings based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickcrit.html>. The Town of Moraga 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 bridges and interchanges		Locally owned critical facilities <sup>4</sup>	
	2005	2010	2005	2010	2005	2010	2005	2010
<i>Total Number of Facilities</i>	1	1	7	7	3	3	3	3
Earthquake Shaking (within highest two shaking categories)	0	0	4	6	3	3	0	2
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	0	0	3	0	3	0	1	0
Liquefaction Hazard (within CGS study zone) <sup>1</sup>	--	--	--	--	--	--	--	--
Earthquake-Induced Landslides (within CGS study zone) <sup>1</sup>	--	--	--	--	--	--	--	--
Earthquake Faulting (within CGS zone) <sup>1</sup>	--	--	--	--	--	--	--	--
Flooding (within 100 year floodplain)	0	0	0	0	0	0	0	1
Flooding (within 500 year floodplain)	0	0	0	1	0	0	0	0
Landslides (within areas of existing landslides)	0	0	2	2	0	0	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	0	0	0	0	0	0	0	1
Wildland-Urban Interface Fire Threat	1	1	7	11	3	3	3	5
Dam Inundation	0	0	0	0	0	0	0	1
Tsunamis <sup>2</sup> (within inundation area)	-	0	-	0	-	0	-	0
Drought <sup>3</sup>	-	-	-	-	-	-	-	-

<sup>1</sup> The Town of Moraga has not yet been evaluated by California Geological Survey.

<sup>2</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>3</sup> Drought will not affect locally owned facilities directly.

<sup>4</sup> Other critical in Town are owned by Special Districts.



## ***Repetitive Loss Properties***

In spite of the areas of the Town located in flood-prone areas, there are no repetitive loss properties in the Town based on the information at <http://quake.abag.ca.gov/mitigation/pickflood.html>. In 2004 the Town had no repetitive loss property that was outside the flood plain.

## ***Other risks***

The Town plans to work with ABAG to improve the risk assessment information being compiled by ABAG, including ways to develop specific information about the anticipated level of damage to building, infrastructure, and critical facilities which might result from any of the hazards previously noted.

The Town of Moraga plans to continue 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.

The Town of Moraga 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.

## **National Flood Insurance Program**

The Town of Moraga has participated in the National Flood Insurance Program (NFIP) since 1981. FEMA completed the first “Flood Insurance Study” for Moraga in November 1980. The “Flood Insurance Rate Map” (FIRM) and “Flood Boundary and Floodway Map” (FBFM) for Moraga was completed on May 19, 1981. The Town Council adopted Ordinance No. 60 regulating development in special flood hazard areas, which was included as Chapter 48 in the Moraga Municipal Code (MMC), and adopted on April 20, 1981. The flood hazard regulations were amended by Ordinance No. 120 on November 4, 1987 and subsequently re-codified as Chapter 8.108 in the MMC.

In 2009, EMA digitized all National Flood Insurance Program maps in Contra Costa County, including the Town of Moraga. Flood Zone information, including Base Flood Elevation Data, is required for building permits. On February 1, 2007, the Town Council adopted Ordinance No. 214, amending Chapter 8.108 with changes to the Town’s flood regulations requested by FEMA, Region IX, in order to comply with the NFIP. These changes included reference to the new digital flood insurance rate map (DFIRM) that became effective in June 16, 2009. The Town’s new Flood Hazard Ordinance was based upon the California Model Floodplain Management Ordinance for non-coastal communities and FEMA confirmed that the Town’s ordinance complied with FEMA requirements on June 12, 2007. The minimum requirement under FEMA is that new buildings must be at least 1-foot above the base flood elevation. However, to get the lowest possible insurance rate in California, the Town Ordinance requires that new buildings



shall be at least two (2) feet above the base flood elevation. The base flood elevation used to be called the “100-year flood elevation”, but is now known as the “special hazard area subject to inundation by the 1% annual chance flood” on the DFIRM.

Town staff also considers information provided by geotechnical engineers and civil engineers, as well as site inspections to assess the flood risk, slope stability of creek banks, and landslides on hillsides for development on parcels within the Town. There are no known obstacles for effective implementation of the NFIP.

## **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 goal is unchanged from the 2007 plan and continues to be the goal of the Town of Moraga in designing its mitigation program.

## **Mitigation Activities and Priorities**

### ***Evaluation of Progress from 2007 Plan***

In 2007, mitigation actions and priorities were identified. The attached list indicates significant strategies identified, along with responsible party, action taken, and current status of progress. Note that the Town contracts Building services and as such many of those related strategy activities are covered through Contra Costa County. Fire service activities are covered through the Moraga Orinda Fire District.

- Infra a-4: In April 2006, the Town completed the police department retrofit. Additional funding is needed to complete the retrofit of the remaining Town Offices. Initial planning and identification of a funding source is ongoing for completion of an Emergency Operations Center. Administration and the Police Department are responsible for these activities.
- Infra a-8, a-11: The fueling station shared by the school district and the Town has been modified to connect to a portable generator. Funding to provide additional generator capacity at the police station continues to be sought by the Police Department and Public Works.
- Infra a-21: Funding is not currently available for an Emergency Operations Center for the Town. Planning for the EOC is in the early stages. Police Department continues to seek funding. The Command Vehicle could be used as a back-up EOC.
- Infra d-6: Funding to implement the Storm Drainage Needs Survey (completed 2008) is being collected as part of the Development Impact Fee. Continued repairs and structural improvements will be overseen by Public Works, as funding is available.
- Infra e-2: The Moraga Municipal Code now includes Chapter 8.136 Slope Density, which addresses hillside development constraints in areas of steep slopes. The Planning and Public Works Departments are responsible for review of proposed development.



- Hsng K-6: The Police Department supports the formation and training of Community Emergency Response Teams. A community group from the Lafayette, Moraga, Orinda area has formed a Lamorinda CERT organization with a web page. [www.lamorindacert.org](http://www.lamorindacert.org)
- Govt a-1, a-2: Work on critical facilities is ongoing. The Police Department seismic retrofit is complete. Additional work at the Town Offices is ongoing; additional funding is needed.
- Govt a-6: Additional funding is needed to upgrade existing surveillance camera systems located at the police department. Police Department is looking to identify source(s) of funding.
- Govt b-2: A basic recovery plan was last updated in 2009, but this activity is underfunded for continued training.
- Govt c-9, c-10: Additional funding is necessary for emergency operations center and EOC vehicles.
- Govt c-14: The Town is covered under the Contra Costa County Community Warning System that is fully explained at the following website: <http://www.co.contra-costa.ca.us/index.aspx?nid=161>
- Govt d-5: The Town participates in the National Flood Insurance Program. Applicable ordinance was updated in 2007 to address requirements.
- Env a-6,a-7: The Town works to ensure that erosion and stormwater control measures are in place prior to wet weather construction activities. The Town inspects and documents construction sites prior to the rainy season. Public Works conducts regular site visits during the rainy season.
- Land a-2, d-1: Geotechnical reports by the General Plan are required for new development.

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

As a participant in the 2010 ABAG multi-jurisdictional planning process, the staff of the Town of Moraga helped in the development and review of the comprehensive list of mitigation strategies in the overall multi-jurisdictional plan. The decision on priority was made based on a variety of criteria, not simply on an economic cost-benefit analysis. These criteria include being technically and administratively feasible, politically acceptable, socially appropriate, legal, economically sound, and not harmful to the environment or our heritage. Representatives from multiple departments then met periodically to review progress on the Town's earlier strategies, to identify and prioritize additional mitigation strategies to update the list.

These draft priorities were reviewed by Town Administrators. The draft priorities will be provided to the Town Council for adoption pending approval of this LHMP by FEMA.

The Town's planning team also prioritized specific mitigation tasks for the next 5 years. A community workshop, attended by the Moraga community, Town Council, and staff was held in January 2011 to identify and prioritize goals for the next year. Infrastructure and economic development were identified as the highest priorities and is reflected in the goals listed below. This list includes implementation process, funding strategy, and approximate time frame.



- Infrastructure – Flooding: Storm Drain System Capacity Program.

The project objective is to provide additional capacity to the Town’s storm drain system based on anticipated needs when the Town is fully built-out. A shorter term goal is to analyze creek and storm water velocity and downstream restrictions to minimize flooding at the Hacienda Pavilion. This includes development of a hydraulic analysis of Laguna Creek on the Hacienda property to determine appropriate actions to reduce flooding on the Hacienda grounds.

  - Responsible department: Public Works.
  - Funding source: development impact fees.
  - Hydraulic study planned for 2011-2012. Design and construction not scheduled at this time.
  - Mitigation Strategy Number: INFRA d-5.
  - Hazards Addressed: Flooding
  
- Government – Maintain and Enhance Local Government’s Emergency Response Capacity: 329 Rheem Renovation.

Project includes an evaluation of feasibility of including dual purpose space for Town Meeting Room and Emergency Operations Center. The building would be brought up to “essential services” standards for emergency operations – a necessity for Police services.

  - Responsible Department: Public Works.
  - Funding source: Grants and Citizen’s Options for Public Safety (COPS).
  - Construction anticipated 2012.
  - Mitigation Strategy Number: GOVT c-10.
  - Hazards Addressed: Earthquake, Landslide, Wildfire, Flooding, Security
  
- Government – Communications: East Bay Regional Communication System.

The purpose of the project is to provide better emergency communications. Alameda and Contra Costa Counties are implementing a single radio technology that will allow all agencies within the County to communicate. Within Moraga, all safety personnel and public works personnel who are first responders will be outfitted with new radios for this improved communication. The Town will purchase new mobile and portable radios which are compatible with similar radios that other agencies are purchasing with the intent of offering interoperability and communication with other local agencies. The Town will also pay a proportional amount of the communications upgrades at the County level to support the interoperability.

  - Responsible Department: Police.
  - Funding source: Citizen’s Options for Public Safety (COPS) and TBD.
  - Expected to be complete: 2012.
  - Mitigation Strategy Number: GOVT c-7.
  - Hazards Addressed: Earthquake, Landslide, Wildfire, Flooding, Security



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

The Town 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 Town's priority to find additional funding to sustain these on-going programs over time.

- Seismic retrofit of Town offices and construction of an Emergency Operations Center (Infra-a-4, Infrac-a-21, Govt-a-1, Govt-a-2, Govt-c-9, Govt-c-10)
- Installation of micro and/or surveillance cameras at critical public assets tied to web-based software (GOVT-a-6);
- Participation in general mutual-aid agreements and agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters (GOVT-c-13);
- Participation in FEMA's National Flood Insurance Program (GOVT-d-5)
- Incorporate FEMA guidelines and suggested activities into local government plans and procedures for managing flood hazards (LAND-c-2);
- 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 (INFR-d-6, INFR-d-7)

## **Incorporation into Existing Planning Mechanisms**

The Town has several planning mechanisms including the following:

- General Plan Safety Element
- Capital Improvements Plan

The Town has a Safety Element in its General Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards. This plan was adopted as an implementation appendix to the Safety Element. In addition, the Town enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. The Town 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.

## **Plan Update Process**

As required Disaster Mitigation Act of 2000, the Town of Moraga 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.

The Town's Police Department will ensure that monitoring of this Annex will occur. The plan will be monitored on an on-going basis. However, the major disasters affecting the Town, legal



changes, notices from ABAG as the lead agency in this process, and other triggers will be used. Finally, the Annex will be a discussion item on the agenda of the meeting of Department leaders at least once a year in April. At that meeting, the department heads will focus on evaluating the Annex in light of technological and political changes during the past year or other significant events. The Department leaders will be responsible for determining if the plan should be updated.

The Town is committed to reviewing and updating this plan annex at least once every five years, as required by the Disaster Mitigation Act of 2000. The Police Department 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 and as appropriate during the monitoring and evaluation process. Prior to adoption of updates, the County will provide the opportunity for the public to comment on the updates. A public notice will be posted prior to the meeting to announce the comment period and meeting logistics.

## **Mitigation Plan Point of Contact**

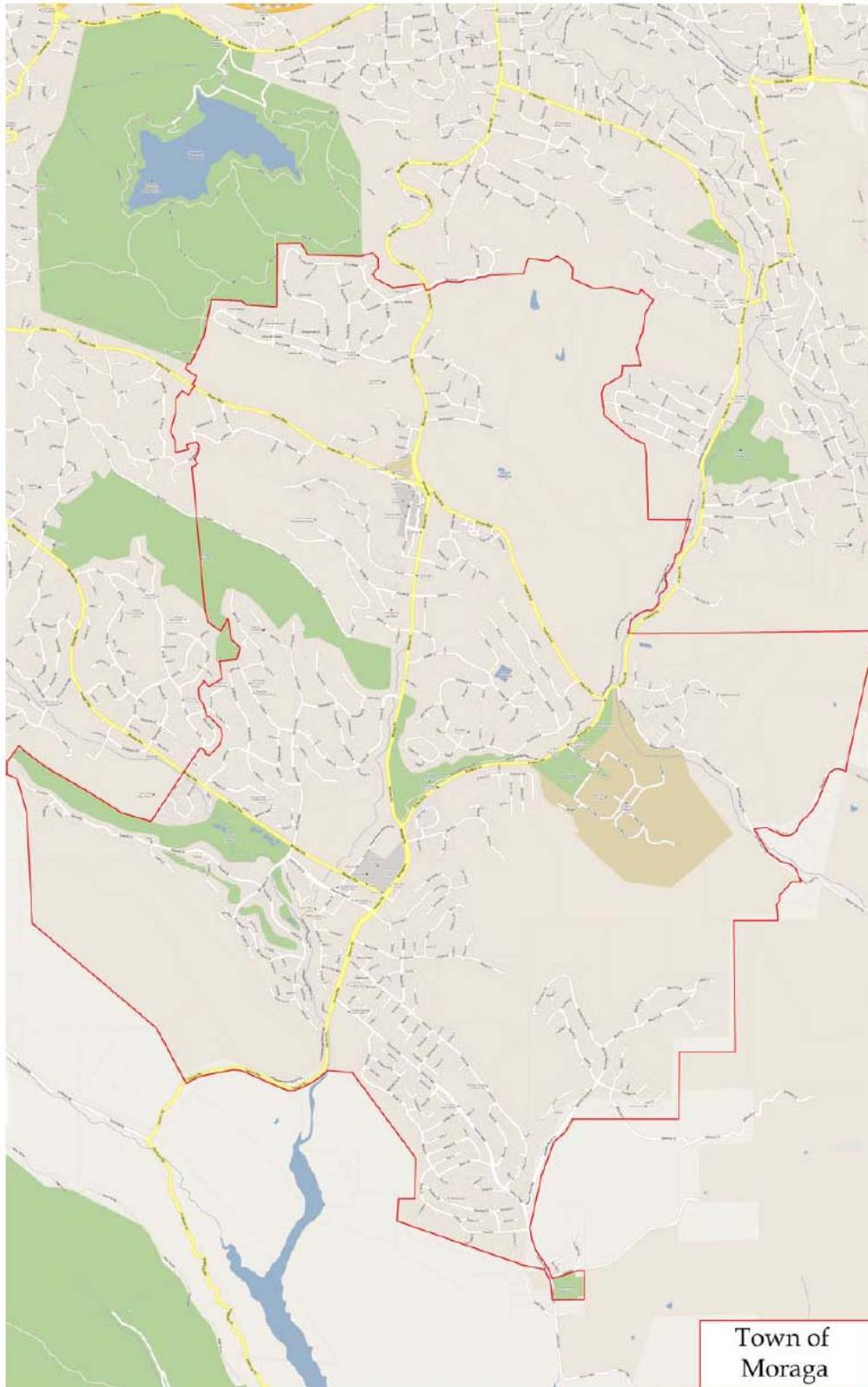
Name: Robert Priebe  
Title: Chief of Police  
Mailing Address: 329 Rheem Blvd, Moraga CA 94556  
Telephone: 925-376-2515  
Email: [priebe@moraga.ca.us](mailto:priebe@moraga.ca.us)

### ***Alternate Point of Contact***

Name: Jill Mercurio  
Title: Town Engineer & Director of Public Works  
Mailing Address: 2100 Donald Drive, Moraga CA 94556  
Telephone: 925-888-7025  
Email: [jmercurio@moraga.ca.us](mailto:jmercurio@moraga.ca.us)



## Exhibit A – Jurisdictional Map



# Exhibit B –Public Meeting Announcements



<p>Town Manager's Office (925) 888-7022                  Planning Department (925) 888-7040                  Police Department (925) 888-7055                  Public Works/Engineering (925) 888-7026                  Recreation/Facility Rentals (925) 888-7035                  Finance Department (925) 888-7033                  The Town Council                  Town Council                  Meeting Agendas and Minutes</p>	<p>RANCHO LAGUNA II</p> <p>MORAGA CENTER SPECIFIC PLAN and HOUSING ELEMENT</p> <p><b>FALL 2009 RECREATION PROGRAMS</b>                  Classes and Activities for All Ages!  <b>REGISTER ONLINE ACTIVITY GUIDE (PDF)</b>  <b>MORAGA MOVERS</b></p> 
--	---

All Town Council Committee and Commission Agendas

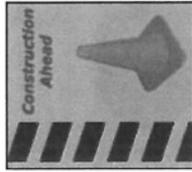
Search Moraga Web Site

Search input field with a "Search" button

Gadgets powered by Google



- » Home
- » About Moraga
- » Calendar
- » Community Links
- » Council, Committee and Commissions
- » Departments
- » Employment Volunteer Opportunities
- » Facility Rentals
- » Moraga General Plan
- » Moraga's Important Documents
- » Municipal Code
- » News
- » Contact Us



**CONSTRUCTION AHEAD**  
**CLICK THE CONE ICON!**  
Town Construction Updates



**HACIENDA DE LAS FLORES**  
Click [HERE](#) for special event rental information.



**H1N1 (SWINE) FLU** Updated 9/09/09

As the school year begins concerns about the spread of H1N1 are escalating. The Town will continue to monitor the impact on Moraga, and take the necessary precautions.

**CLICK THE PIG FOR MORE INFORMATION**

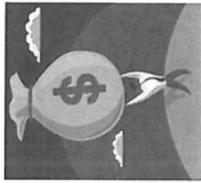
**Majchrzak Memorial Fund**

In honor of the late civic leader, Mike Majchrzak, his family has established a donation fund. One of Mike's passions was supporting intern opportunities in Moraga while at the same time exposing the intern to the many different aspects of local government.

Please send your donations to:  
**Majchrzak Memorial Fund, Town Clerk's Office, Town of Moraga, 329 Rheem Blvd Suite 202, Moraga CA 94556.**

*Thank you  
for  
your  
generous  
donation.*





**MORAGA ECONOMIC STIMULUS PROJECTS  
CLICK THE ICON!**

**UNITED STATES CENSUS 2010**



Sponsored by the  
Chamber of Commerce

**MORAGA CERTIFIED FARMERS MARKET!**  
Every Sunday, All year round!  
9:00 a.m. to 1:00 p.m.  
Moraga Center - Moraga Road/Moraga Way

**Presentation on the Multi Jurisdictional Local Hazard Mitigation Plan.**  
Hacienda de las Flores, Mosaic Room.  
September 23, 2009. 2-3 pm.

Presentation and draft mitigation strategies [click here](#)

This website and all of its content © Copyright 2008 Town of Moraga. All Rights reserved.





LHMP  
file



<p><b>Town Manager's Office</b> (925) 888-7022 <b>Planning Department</b> (925) 888-7040 <b>Police Department</b> (925) 888-7055 <b>Public Works/Engineering</b> (925) 888-7026 <b>Recreation/Facility Rentals</b> (925) 888-7035 <b>Finance Department</b> (925) 888-7033</p>	<p><i>November</i></p> <p>Please <a href="#">Click Here</a> for the Updated Town Council Calendar</p> <p><i>December</i></p>
<p><a href="#">The Town Council</a></p> <p><a href="#">Town Council Meeting Agendas</a></p> <p><a href="#">All Town Council, Committee and Commission Agendas</a></p>	<p><b>2010 State of the Town Address</b> <a href="#">PDF Presentation</a> of the 11/17/10 Address</p>
<p><a href="#">Search Moraga Web Site</a></p> <p><input type="text"/></p> <p><input type="button" value="Search"/></p>	<p></p> <p><b>Election Results <a href="#">Click Here</a></b></p>
<p><a href="#">Create your own Custom Search Engine</a></p> <p> Gadgets powered by Google</p> <ul style="list-style-type: none"> <li>» Home</li> <li>» About Moraga</li> <li>» Calendar</li> <li>» Community Links</li> <li>» Council, Committee and Commissions</li> <li>» Departments</li> <li>» Employment Volunteer Opportunities</li> <li>» Facility Rentals</li> <li>» Moraga General Plan</li> <li>» Moraga's Important Documents</li> <li>» Municipal Code</li> <li>» News</li> <li>» Contact Us</li> </ul>	<p><b>"ABOUT TOWN" Bi-Weekly Update from Moraga Town Staff</b></p> <p><b>Summary of Council Actions</b></p> <p></p>
	<p><b>Local Hazard Mitigation Plan Public Information Meeting</b> Tuesday, November 30 at 1:00p.m. Mosaic Room, Hacienda de las Flores 2100 Donald Drive</p> <p><b>To view the draft mitigation measures, click <a href="#">here</a>.</b></p> <p><a href="#">Rancho Laguna II</a></p> <p><a href="#">Town of Moraga General Plan</a></p> <p><a href="#">Moraga Center Specific Plan Executive Summary</a></p> <p><a href="#">Moraga Center Specific Plan and Housing Element</a></p> <p><b>Latest News</b></p> <p><a href="#">Revenue Enhancement Community Outreach to Neighborhoods Presentation 7/28/10</a></p> <p><a href="#">331 Rheem Blvd. Acquisition</a></p> <p><a href="#">Revenue Enhancement Committee Presentation to Town Council 11/18/09</a></p> <p><a href="#">Revenue Enhancement Committee Final Report to Town Council November 2009</a></p> <p><b>Moraga Holiday Happenings</b> Tree Lighting 12/4, Breakfast with Santa 12/11, Santa Visits 12/15-12/17, Holiday Home Decorating Contest &amp; Buy A Bulb Fundraiser! <a href="#">Flyer</a> for all details!</p>