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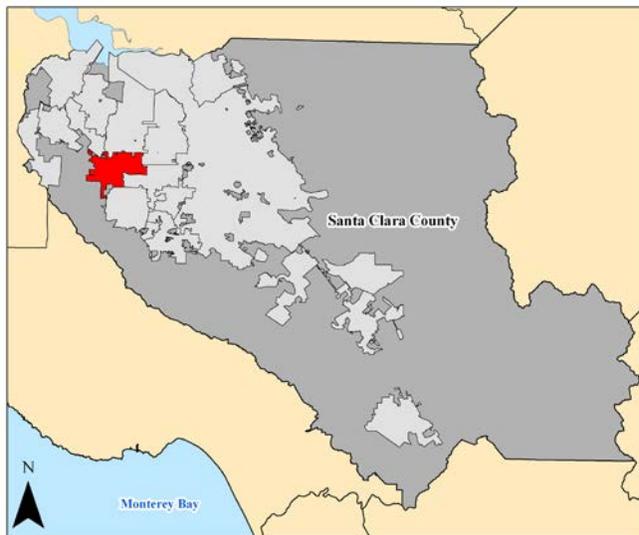
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SECTION 11 CITY OF CUPERTINO ANNEX

11.1 INTRODUCTION

This City of Cupertino Annex serves as an annex to the Santa Clara County Local Hazard Mitigation Plan which is an annex to the 2010 Association of Bay Area Local Hazard Mitigation Plan, *Taming Natural Disasters*. Pursuant to the Disaster Mitigation Act of 2000, the City Council adopted this annex on March 20, 2012.

This annex is an update to the City's annex to the 2005 Association of Bay Area Local Hazard Mitigation Plan, *Taming Natural Disasters*, as adopted on July 19, 2005.



The City of Cupertino is a medium-sized city located in the western region of Santa Clara County, California. The City has a population of approximately 58,000 people, based on the 2010 census. The City encompasses approximately 13 square miles and employs about 163 full time and 150 part time (peak summer) people. Local police services are contracted from the Santa Clara County Sheriff's Office and fire services are paid for through a property tax distribution to the Santa Clara County Fire Department.

Economy

Cupertino is one of many cities that claim to be the "heart" of Silicon Valley, as many semiconductor and computer companies were founded here and in the surrounding areas. In particular, the worldwide headquarters for Apple Inc. is located here. Other companies headquartered in Cupertino include Trend Micro, Verigy, Durect and Seagate Technologies. Over 60 companies have offices here, including Lab 126, Chordiant, IBM, and Panasonic. Most of these high-tech companies are located on De Anza Boulevard, Cali Mill Plaza, and Bubb Road.

Though Cupertino is home to the headquarters of many high-tech companies, very little manufacturing actually takes place in the city. The city's large office parks are primarily dedicated to management and design functions.

In 2002, Cupertino had a labor force of 25,780 with an unemployment rate of 4.5%. The unemployment rate for the Santa Clara County as a whole was 8.4%. One of the major employers in the area is the aggregate rock quarry and cement plant in the unincorporated foothills to the west of Cupertino. Currently owned and operated by Lehigh Southwest Cement, it was originally founded by Henry J. Kaiser as the Kaiser Permanente Cement Plant in 1939. It's somewhat novel charter was to provide the majority of the cement used in the construction of the Shasta Dam.

Transportation

The city is served by an interconnected road system. Two freeways, State Route 85 and Interstate 280, intersect in Cupertino, and, like any typical middle-class California suburb, it also has multi-lane boulevards with landscaped medians and traffic lights at all major intersections. The VTA has several buses running through Cupertino at major arteries. Dedicated on April 30, 2009, Cupertino opened the "Mary Avenue Bicycle Footbridge", the first cable-stayed bicycle pedestrian bridge over a California freeway. This bridge is a regional connection between Cupertino, Sunnyvale, the Stevens Creek Trail and the bay.

The Union Pacific Railroad operates a branch line track up to the Lehigh Permanente Cement Plant from the mainline at San Jose Diridon Station. It is, however, strictly for the quarry and very little to no non-quarry traffic runs on the track.

There is no commuter rail or light rail service in the city. Caltrain commuter rail runs through the cities to the north and east, and the Santa Clara Valley Transportation Authority (VTA)'s Mountain View - Winchester light rail line runs to Campbell, California to the south. Bus service is also provided by VTA, and the prospect of twenty-four hour bus service on Stevens Creek Boulevard is being studied.

Housing and Commercial

Earlier in its history, Cupertino attributed some of its city income from the shopping mall, Vallco Fashion Park. At the time, it was one of the only major indoor shopping malls in the South Bay area. Since then, several other shopping malls have been built. Valley Fair (now known as Westfield Valley Fair) in Santa Clara caters to the high end, expensive name brand boutique stores, while the Great Mall in Milpitas opened in the 1990s with low-priced and bargain retailers. Vallco Fashion Park was hit hard by these developments, as well as the loss of one of its anchor stores, Emporium, and has had a hard time recovering ever since.

As of the census of 2010, there were 20,181 households, and 15,776 families residing in the city.

RESOLUTION NO. 05-116

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CUPERTINO APPROVING
THE ASSOCIATION OF BAY AREA GOVERNMENT (ABAG) REPORT "TAMING
NATURAL DISASTERS" AS THE CITY OF CUPERTINO'S LOCAL HAZARD
MITIGATION PLAN

WHEREAS, the Bay Area is subject to various earthquake-related hazards such as ground shaking, liquefaction, land sliding, fault surface rupture, and tsunamis; and

WHEREAS, the Bay Area is subject to various weather-related hazards including wildfires, floods, and landslides; and

WHEREAS, the City of Cupertino recognizes that disasters do not recognize city, county, or special district boundaries; and

WHEREAS, the City of Cupertino seeks to maintain and enhance both a disaster-resistant city and region by reducing the potential loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters; and

WHEREAS, the City of Cupertino is committed to increasing the disaster resistance of the infrastructure, health, housing, economy, government services, education, environment, and land use systems in the city, as well as in the Bay Area as a whole; and

WHEREAS, the federal Disaster Mitigation Act of 2000 requires all cities, counties, and special districts to have adopted a Local Hazard Mitigation Plan to receive disaster mitigation funding from FEMA; and

WHEREAS, ABAG has approved and adopted the ABAG report *Taming Natural Disasters* as the multi-jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area;

NOW, THEREFORE, BE IT RESOLVED that the City of Cupertino adopts, and adapts with its local annex, this multi-jurisdictional plan as its Local Hazard Mitigation Plan.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the City of Cupertino commits to continuing to take those actions and initiating further actions, as appropriate, as identified in the City's Annex of that multi-jurisdictional Local Hazard Mitigation

PASSED AND ADOPTED at a special meeting of the City Council of the City of Cupertino this 19th day of July, 2005, by the following vote:

Vote Members of the City Council

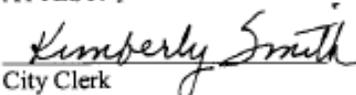
AYES: Kwok, Lowenthal, Sandoval, Wang, James

NOES: None

ABSENT: None

ABSTAIN: None

ATTEST: .


City Clerk

APPROVED:


Mayor, City of Cupertino

RESOLUTION NO. 12-051

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF CUPERTINO APPROVING THE CITY OF CUPERTINO ANNEX TO THE SANTA CLARA COUNTY ANNEX TO THE 2010 ASSOCIATION OF BAY AREA GOVERNMENTS REPORT “TAMING NATURAL DISASTERS” AS THE CITY OF CUPERTINO’S LOCAL HAZARD MITIGATION PLAN

WHEREAS, the Bay Area is subject to various earthquake-related hazards such as ground shaking, liquefaction, landslides, fault surface rupture, and tsunamis; and

WHEREAS, the Bay Area is subject to various weather-related hazards including wildfires, floods and landslides; and

WHEREAS, the City of Cupertino recognizes that disasters do not recognize city, county, or special district boundaries; and

WHEREAS, the City seeks to maintain and enhance both a disaster-resistant City and region by reducing the potential loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters; and

WHEREAS, the City is committed to increasing the disaster resistance of the infrastructure, health, housing, economy, government services, education, environment, and land use systems in the City, as well as in the Bay Area as a whole; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 requires all cities, counties and special districts to have adopted a Local Hazard Mitigation Plan to receive disaster mitigation funding from FEMA; and

WHEREAS, ABAG has approved and adopted the ABAG report “Taming Natural Disasters” as the multi-jurisdictional Local Hazard Mitigation Plan for the San Francisco Bay Area;

NOW, THEREFORE, BE IT RESOLVED, that the City Council adopts with its local annex, this multi-jurisdictional plan as its Local Hazard Mitigation Plan.

NOW, THEREFORE, BE IT FURTHER RESOLVED that the City commits to continuing to take those actions and initiating further actions, as appropriate, as identified in the City of Cupertino Annex to the County of Santa Clara Annex of that multi-jurisdictional Local Hazard Mitigation Plan and will consider including the mitigation strategies as the Implementation Appendix of the Safety Element of its General Plan during the Safety Element update process now underway and expected to be completed by December 2014.

PASSED AND ADOPTED at a regular meeting of the City Council of the City of Cupertino this 15th day of May, 2012 by the following vote:

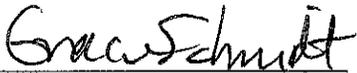
Vote

AYES:
NOES:
ABSENT:
ABSTAIN:

Members of the City Council

Santoro, Mahoney, Chang, Sinks, Wong
None
None
None

ATTEST:



Grace Schmidt, Acting City Clerk

APPROVED:



Mark Santoro, Mayor, City of Cupertino

11.2 INTERNAL PLANNING PROCESS

The City of Cupertino participated in the regional planning process coordinated by ABAG and the local planning process coordinated by Santa Clara County OES as noted in Section 3 of this plan. Jim Yoke, Emergency Services Coordinator, served as the City's representative and lead for completing this annex. Jim participated in Local Planning Team meetings #1 and #2, while Rick Kitson, Public Information Officer, facilitated the City's public outreach for the online survey and performed internal reviews and collaboration in order to provide all of the required information for development of this annex.

Contact information: jim.yoke@cnt.sccgov.org, 408-887-7818

The City of Cupertino's internal planning team included the following individuals:

- City Manager
- Director of Community Development
- Senior Building Official
- Director of Public Works
- Assistant Director of Public Works, Service Center
- Public Information Officer
- Media Coordinator
- Webmaster
- Emergency Services Coordinator

Public Outreach

The City of Cupertino notified residents and businesses of the hazard mitigation planning process by distributing promotional announcements regarding the public opportunity to respond to the online survey discussed in Section 3.2.6. A copy of the survey is included in County Attachment 7: Survey Outreach Materials, found in Section 9.7. The following media was utilized:

- Radio Cupertino (1670 AM) – promotional announcement
- City Channel's daily news ticker (Comcast Channel 26 / AT&T U-verse Channel 99)
- City Website (www.cupertino.org)
- Cupertino Scene (monthly newsletter mailed to all Cupertino residents and businesses)
- City of Cupertino Facebook and Twitter pages

Copies of these outreach announcements are included in Section 10.7, Cupertino Attachment 1: Outreach Materials.

Survey Results

On November 1, 2010, the Local Planning Team released an online survey to solicit public input regarding concerns for hazard risk. The Local Planning Team also used this survey to gauge the level of public preparedness for emergencies.

The survey respondents confirmed the priority rankings for the identified hazards indicating that ground shaking caused by earthquakes and infrastructure failure are of most concern. Additionally, a significant number of respondents indicated they have made improvements to their property to reduce risk of damage (refer to Table 11-6). The survey allowed the City an opportunity to expand the list of stakeholders. Several respondents provided contact information and were given an opportunity to review/comment on the complete draft prior to adoption. As the City continues to increase awareness of hazard mitigation, the suggested stakeholders (item 19 below) will be considered for involvement in future mitigation planning discussions.

The results of the survey provide valuable information for the City of Cupertino as they continue in their preparedness efforts. These responses may be used as a bench mark for future measurements of improvement. For example, the City chose to focus on educational outreach about the benefits of insurance or emergency preparedness kits. After this type of implementation, a similar survey may be administered to validate the progress and confirm that more residents have improved their preparedness capabilities.

The City of Cupertino will consider the recommendations provided by survey respondents (items 6 and 18 below) throughout the life of this plan and prioritize those that can be implemented efficiently and effectively.

The survey responses received from the City of Cupertino residents are summarized below:

1. 25 out of 541 survey respondents were from the City of Cupertino.
2. Respondents were asked which five hazards, out of the 31 hazards the LPT identified, are of most concern to their neighborhood or home. Below are responses from the City of Cupertino (in order of most responses):

Table 11-1: Hazards of Most Concern

Hazard	Number of Responses
Earthquake: Ground Shaking	17
Infrastructure: Electrical System Disruption (no power)	17
Infrastructure: Water System Disruption (no potable water)	16
Infrastructure: Telecommunication System Disruption (no phone / cell service)	11
Additional Hazard *	9
Hazardous Materials Spills (chemical/biological)	7
Infrastructure: Transportation Disruption (blocked roads / failed bridges)	7
Wildfire	7

Hazard	Number of Responses
Infrastructure: Energy System Disruption (no gas)	6
Dam Failure	5
Earthquake: Surface Rupture	5
Infrastructure: Wastewater System Disruption (sewer backup)	4
Delta Levee Failure	3
Earthquake: Landslides	3
Flood	3
Agricultural Pests and Diseases	2
Disease and Outbreak	2
Freeze	1
Landslide and Debris flow	1
Solar Storm	1
Wind (high winds)	1
Bay Area Silting	0
Drought	0
Earthquake: Liquefaction	0
Expansive Soils	0
Hailstorm	0
Heat (extreme heat)	0
Land Subsidence (soil compaction due to subsurface water removal)	0
Thunder/Lightning Storms	0
Tornado	0
Tsunami	0
Volcano	0

* Respondents noted the following additional hazards: air, water, noise, and soil pollution, urban fire, terrorist activity, and contaminated groundwater

3. Respondents were asked if a severe hazard event occurred today, such that all services were cut off from their home and they were unable to leave or access a store for 72 hours, which items they would have readily available. Below is a summary of responses from the City of Cupertino respondents:

Table 11-2: Items Readily Available to Respondents

Item that is Readily Available	Responses
Flashlight (with batteries)	23
Blanket(s)	23
First Aid Kit	21
Canned / Non-perishable Foods (ready to eat)	18

Portable AM/FM Radio (solar powered, hand crank, or batteries)	18
Extra Medications	17
Cash	16
What else is in your emergency kit? *	14
Portable Water (3 gallons per person)	12
Handheld “Walkie-Talkie” Radios (with batteries)	9
Important Family Photos/Documentation in a water and fire proof container	7

* Respondents noted the following additional items in their emergency kits: tent, propane stove, lantern, children games, books, extra clothes and shoes, candles, knife, batteries, compass, waterproof pen/paper, CERT packs, gloves and hat, garbage bags, spare glasses, plywood, generator, extension cords, hammer, nails, duct tape, water purification tablets, rope, string, spray paint, road flares, broom.

4. Respondents were asked if they were familiar with the special needs of their neighbors in the event of a disaster situation.

- 18, or 72% of respondents, answered that they are not familiar with the special needs of their neighbors.
- 7, or 28% of respondents, answered that they are familiar with the special needs of their neighbors.

5. Respondents were asked if they are trained members of their Community Emergency Response Team (CERT).

- 14 or 56% of respondents indicated that they are part of CERT.
- 5, or 20% of respondents, indicated that they are not part of CERT, but would like to learn more about CERT.
- 6, or 24% of respondents, indicated that they are not part of CERT and are not interested in being a trained CERT member.

Respondents were asked to share why they are a trained CERT member, or why they are not part of CERT. The received responses are listed below:

- I want to be prepared for an emergency
- As a graduate student in Environmental Security, I would like to make this my career to have safety plans for emergency situations. I am working on a research project about ethnic, religious, and age inclusivity for disaster preparedness in Cupertino.
- Help my family and neighborhood
- My husband is a member
- Unable to attend at time offered. Prefer to learn from “expert” trainers.
- I have been active with the Red Cross and I am a HAM radio operator. I wrote the CADRE plan in Santa Clara County. In recent years I have gotten away from it, but probably a good idea to be able to help my neighbors.

6. Respondents were asked what the most important thing local government can do to help communities be more prepared for a disaster. The following summarizes the 19 responses received:

- Public information and communication (make sure everyone is aware of resources available to them during a disaster)
- Preventative measures against air pollution from Lehigh Cement Plant
- Training and education for citizens and staff (ARCs and CERT)
- Encourage citizens to acquire emergency preparedness supplies that will be sufficient for 72 hours
- Be aware of citizens and their special needs
- School preparedness
- Create inventory of first responders
- Survey all available heavy equipment
- Maintain quality of infrastructure

7. Respondents were asked if they live in an apartment building or home with a living space above a garage or parking area.

- 15 or 62.5% of respondents indicated that they do not live in an apartment or home with living space above a garage or parking area.
- 9, or 37.5% of respondents, indicated that they do live in an apartment building or home with living space above a garage or parking area.
- One respondent skipped this question.

Those respondents who indicated that they do live in an apartment building or home with living space above the garage or parking area were asked to describe their level of concern for the building to collapse in a large earthquake event. 5 respondents indicated “Moderate Concern”, 1 respondent indicated “Little Concern”, and 2 respondents indicated “No Concern”. 1 respondent indicated that their covered carport in Cupertino is old and in disrepair. This respondent is worried that the carport will collapse on their car.

8. Respondents who are homeowners were asked if they have adequate homeowners insurance to cover the hazards that could impact their home. Below is a summary of responses:

Table 11-3: Adequate Homeowners Insurance

Answer	Responses
Yes, my insurance coverage should be adequate	18
No, I don't believe my insurance coverage would be adequate for a major disaster	4
Unsure	1
I do not have an insurance policy	0
Not applicable, I rent my current residence	2

9. Respondents were asked if they have earthquake insurance. Below is a summary of responses:

Table 11-4: Earthquake Insurance

Answer	Responses
Yes, I own my home and have earthquake insurance.	6
Yes, I rent my home and have earthquake insurance.	1
No, but I am interested in reviewing earthquake insurance options.	1
No, earthquake insurance is too expensive.	13
No, I do not need earthquake insurance.	4

10. Respondents were asked if they have flood insurance. Below is a summary of responses:

Table 11-5: Flood Insurance

Answer	Responses
Yes, I own my home and have flood insurance.	6
Yes, I rent my home and have flood insurance.	1
No, but I am interested in reviewing flood insurance options.	0
No, I do not need flood insurance	18

11. Respondents indicated the following as additional insurance listed for their home or property:

- Comprehensive (with exception of earthquake)
- Condo HOA insurance includes fire, EQ, etc.
- Fire
- Renter's
- Full Replacement value homeowners
- Umbrella liability policy

12. Respondents were asked what they are doing to their property or within their home to reduce future damage from the hazards identified above. Below is a summary of responses:

Table 11-6: Property Changes to Reduce Future Damage from Hazards

Property Mitigation	Responses
Other *	9
Roof retrofit using fire resistant material	8
Defensible space landscaping (clear vegetation around house to reduce wildfire risk)	5
Installed backflow prevention devices	4
Seismic retrofit of the structure and/or foundation	3
Strengthened Openings to reduce high hazard wind risk	0
House elevation or first floor modification to prevent flood damage	0

*The responses to “Other” were: “furniture wall brackets, cabinet security locks, remove heavy items from high locations, secure garage structure, anchored cabinets and heavy furniture, added emergency lights inside, removed falling tree hazard.”

13. Respondents were asked if they work in Santa Clara County.

- 16, or 66.7% of respondents, indicated that they do work in Santa Clara County.
- 8, or 33.3% of respondents, indicated that they do not work in Santa Clara County.
- 1 respondent skipped this question.

14. Respondents were asked if their place of work is in an area susceptible to natural hazards.

Below is a list of natural hazards and responses from survey respondents:

Table 11-7: Place of Work in Hazard Areas

Natural Hazard	Response
Earthquake fault zone	7
I don't know	5
High-risk flood zone	5
Other*	4
Liquefaction zone	2
Wildland Urban Interface (wildfire risk area)	2
Landslide Risk Area	1

* The responses to “Other” were: “Flood zone, but not high risk, falling trees, and yoga instructor in homes and parks.”

15. Respondents were asked if their employer has a plan for disaster recovery in place.

- 16, or 76.2% of respondents, indicated that their employer does have a disaster recovery plan in place.
- 1, or 4.8% of respondents, indicated that their employer does not have a disaster recovery plan in place.
- 4 respondents were unsure if their employer has a disaster recovery plan in place.
- 4 respondents skipped this question.

16. Respondents were asked if their employer has a workforce communications plan to implement following a disaster so they may contact their employees.

- 11 or 57.9% of respondents indicated that their employer does have a workforce communications plan.
- 1 or 5.3% of respondents indicated that their employer does not have a workforce communications plan.
- 7 or 36.8% of respondents indicated that they are unsure if their employer has a workforce communications plan.

- 6 respondents skipped this question.

17. Respondents were asked to list any studies that they are aware of being conducted within their community or the county regarding the risk to future hazard events. 8 respondents replied to this question. These answers are summarized below. 17 respondents skipped this question.

- Stevens Creek Dam Plan
- Earthquake seismic retrofit
- Seismic shaking maps
- Seismic soft story damage maps
- Regional pre-disaster mitigation
- Earthquake
- Flood
- Dam Failure
- Power Outage
- Chemical Spill
- Fire

18. Respondents were asked what recommendations they have for Santa Clara County and the incorporated cities to improve identification, prioritization, and implementation of actions intended to reduce future damage and increase resiliency. The following recommendations were received:

- More decisive reinforcement of Lehigh Cement Plant with environmental regulations
- Increase participation in AlertSCC
- Stronger retrofit regulations for homes/apartments above a garage
- Civil engineer analysis of main city and county buildings, schools, and hospitals for retrofits
- Retrofit soft story buildings and mobile homes
- Survey all first responders
- Offer more flexible options for homeowner seismic upgrade self-certifications through licensed professionals
- Identify staging areas for debris placement throughout the County
- Walking mile markers in parks (similar to like on freeway) that include estimated time of arrival

19. Respondents were asked to recommend any companies or local associations that should be involved in the Santa Clara County hazard mitigation planning process. The recommended organizations are listed below and were given the opportunity to review the draft plan as noted in the following section.

- <http://airwatch.us/contact.html>, info@airwatch.us
- www.notoxicair.org
- San Jose State University
- CESA
- Earthquake Engineering and Research Institute

20. Respondents were asked if they would like to review and comment on a draft of their jurisdictions annex to the Multi-Jurisdictional Multi-Hazard Mitigation Plan.

- 11, or 55% of respondents said they would like to review and comment on the draft plan.
- 9, or 45% of respondents said they would not like to review and comment on the plan draft.
- 5 respondents skipped this question.

Twelve respondents who said they would like to review and comment on the draft plan included their contact information and were given the opportunity to review the draft plan as noted in the following section.

21. Respondents were asked to provide any additional comments/suggestions/questions. The responses are summarized below:

- Do not extend operating permit to Lehigh Cement Plant in order to minimize air pollution over the next 20 years. Please conduct detailed oversight of emission from the plant.
- Focus on environmental and health hazards cause by Lehigh Cement Plant and Quarry, while continuing to work on preventative measures for future hazard events.
- We would buy earthquake insurance, even at a high rate. It's the deductible that seems unreasonable. Anything SCC can do to influence making insurance more affordable would be huge.
- I would love to be involved in any way possible. Please contact me. I have lots of ideas and a lot of education and some experience.
- The lack of controls at the Leigh Southwest Cement and Quarry and the Stevens Creek Quarry to control pollution to air, water, and soil has caused great problems in our community. Same with Apple Computer. Shut down these polluters. They cause many health problems.
- Make maps showing alternative routes to hospitals, food, family, by foot or bike.

Review Opportunities

The City of Cupertino held one public meeting and posted information on-line with the public including a survey for comments. We also notified residents and businesses of the hazard mitigation planning process by distributing promotional announcements regarding the public opportunity to respond to the on-line survey. Promotions for the survey included:

- City website news section article;
- Radio Cupertino (1670 AM) announcements
- City Channel's daily news ticker (Comcast Channel 26/AT&T U-Verse Channel 99) announcements;
- Monthly Cupertino Scene newsletter
- [Http://www.cupertino.org/modules/show_document.aspx?documentid=4030](http://www.cupertino.org/modules/show_document.aspx?documentid=4030)

- City Facebook page <http://www.cupertino.org/facebook>
- City Twitter page <http://www.cupertino.org/twitter>

11.3 CAPABILITY ASSESSMENT

11.3.1 Mitigation Progress

11.3.1.1 Strategy Rankings

In preparation of the 2005 plan, the City helped ABAG in the development and review of the comprehensive regional list of mitigation strategies. Similarly, the City participated in the revision of the regional strategies for development of this annex. Appendix G of Taming Natural Hazards presents a summary list of mitigation strategies with regional priorities and the hazards mitigated.

The City ranked those strategies in a spreadsheet provided by ABAG using the following scale:

- 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

Results of this ranking may be viewed online at <http://www.abag.ca.gov/bayarea/eqmaps/mitigation/strategy.html>. A summary of these rankings is presented in Cupertino Attachment 1: Cupertino Strategies 2010, in Section 11.7.

The countywide Local Planning Team reviewed the priorities as ranked by the participating Santa Clara County jurisdictions to determine the operational area priorities. The City of Cupertino’s primary objectives are to improve mitigation activities in the Wildland Urban Interface areas, bring City facilities up to current seismic standards and expand our communication/warning systems capabilities for dam failure notification. New mitigation actions the City of Cupertino has identified are discussed in Section 11.5.

11.3.1.2 Completed Projects

To reduce wildfire risk, the City of Cupertino has adopted a Class A roof ordinance, a fire sprinkler ordinance and the Wildland Urban Interface (WUI) requirements and accompanying WUI map.

For ongoing preparedness, the City of Cupertino provides outreach and education through evacuation drills and CERT Training for City Staff and the community.

11.3.1.3 Current Projects

There are currently no on-going Capital Improvement projects specific to reducing the risk to damage from future natural hazards.

11.3.2 Staff and Organizational Capabilities

11.3.2.1 Departmental Responsibilities

The City of Cupertino operates several departments with capabilities for implementing hazard mitigation strategies. These departments and their roles and responsibilities are summarized in the following table.

Table 11-8: Key Departments in the City of Cupertino

Key Departments in the City of Cupertino
Departments
<p>City Manager's Offices</p> <p>The City Manager supports programs that empower residents to "Build Community" in their neighborhoods. These programs include:</p> <ul style="list-style-type: none"> o Neighborhood Block Parties o Neighborhood Block Leader <p>The Manager works closely with the city's public safety providers (Santa Clara County Sheriff and Santa Clara County Fire Department), as well as with the elementary, high school and college districts.</p> <p>The Administrative Services Department oversees Code Enforcement, Emergency Services, and Finance.</p> <ul style="list-style-type: none"> o Code Enforcement <p>The Code Enforcement Division is comprised of a staff of four full-time officers and operates six days per week, Monday through Saturday. Code Enforcement is responsible for enforcing the provisions of the Cupertino Municipal Code and various other related codes and policies. To meet this obligation we obtain compliance through intervention, education, and enforcement. We strive to partner with the community in enforcing neighborhood property maintenance standards, as it is our goal to help maintain property values and create a healthy, aesthetically pleasing community in which to live, work, and play.</p> o Emergency Services <p>The City of Cupertino's Emergency Preparedness Program provides services to the City organization and to the community to prepare an effective response to natural, technological, and human-caused disasters. The program is a cooperative effort between the City of Cupertino, the Santa Clara County Fire Department and local volunteers. The City of Cupertino and the Santa Clara County Fire Department offer preparedness classes to Cupertino residents.</p>

Key Departments in the City of Cupertino

Programs supported by Emergency Services are:

- Community Emergency Response Team (CERT)
- Medical Reserve Corps (MRC)
- Cupertino Amateur Radio Emergency Service (CARES)
- Neighborhood Watch
- Email Community Alert Program (eCAP)

- Finance

The Finance Division is responsible for accurate and timely maintenance of all City financial records, collection, disbursements of funds, and the payroll process. Finance oversees the annual audit and preparation of the Comprehensive Annual Financial Report, and performs year-long monitoring and analysis of budget-to-actual activities for both operational and capital budgets.

City Communication

The Communications Department is responsible for planning and implementing a comprehensive internal and external communications program for the city of Cupertino.

Communications Mission

To increase public awareness, interest, understanding and participation in city issues, programs and services.

Communications Goals

- Serve as the communications link between the city and residential, business and other communities in the region.
- Ensure all audiences have easy access to information and services via the media of their choice including print, video, Internet, telephone, radio and/or television.
- Build community pride and positive identification with the city among our residents and employees.
- Increase interest and participation in city services and activities.
- Promote city council and departmental goals, initiatives, programs and services.
- Keep employees and elected officials well informed to assist them in serving city residents and other audiences.
- Assist in creating better internal and external communications.
- Enhance our relationship with the news media to enable them to be two-way communicators between city government and the community.

Community Development

The Community Development department oversees Planning, Building, and Housing and Economic Development services.

- Planning

The Planning Division provides efficient and responsive professional planning services to the community and implements city development policies, programs, and regulations. The primary

Key Departments in the City of Cupertino

responsibilities of the Planning Department are to assist the community to plan and foresee future land uses and policies and to review current development proposals for conformance with the City's adopted policies and ordinances. The Planning Department administers land use regulations while striving to enhance the livability of Cupertino by fostering a healthy, prosperous and sustainable community environment.

The Planning Division Staff also provides assistance to local and regional planning efforts of interest to the City. In addition, staff provides assistance to community stake holders, such as residents and business owners, in order to foster a broader understanding of planning.

- Building

The Building Division safeguards the health, safety and welfare of residents, workers and visitors to Cupertino by effective administration and enforcement of building codes and ordinances adopted by the City, and by providing field inspections, plan checking and public information services related to new construction.

Environmental Services

The Environmental Division is under the Public Works Dept. The Environmental Division has the responsibility of establishing policies and programs that will provide sufficient disposal and recycling services for residents and businesses in the city. The Division monitors the city's garbage contract, and designs and implements recycling programs. The Division is also responsible to represent Cupertino in the Santa Clara County Urban Runoff Pollution Prevention Program - a regional program mandated to reduce the toxicity and volume of storm water runoff in municipal storm drain systems. Additionally, the Division addresses other environmental issues including: energy concerns, water conservation concerns, and the disposal of hazardous waste.

Public Safety

Public safety services include the Sheriff's Office and the Fire Department.

- Fire

The mission of the Santa Clara County Fire Department is to protect lives, property and the environment within the communities served from fires, disasters and emergency incidents through education, prevention and emergency response. For more info visit their website at www.sccfd.org.

The Santa Clara County Fire Department is a unique fire district that has evolved into a progressive, full service fire department over the past 60 years. Through contracts with cities and district consolidations, County Fire now provides fire protection services to the cities of Campbell, Cupertino, Los Altos, Monte Sereno, Morgan Hill, Saratoga; the towns of Los Altos Hills and Los Gatos and adjacent unincorporated County areas.

Key Departments in the City of Cupertino

The Santa Clara County Fire Department has grown to include 17 fire stations to protect approximately 100 square miles and serves a population of over 226,000 residents. County Fire employs 283 personnel to provide fire suppression, emergency medical and fire marshal services, hazardous materials regulation and response, rescue and extrication, public education and fire investigation services. The department's suppression force is also augmented by volunteer firefighters and CalFire in the western foothills.

- Sheriff's Office

The Santa Clara County Sheriff's Office, West Valley Division, provides law enforcement services to the City of Cupertino as well as the communities of Saratoga, Los Altos Hills, Moffett, and the unincorporated areas of the western Santa Clara County. The Sheriff's Office maintains contracts with the Santa Clara County Superior Court, Valley Transportation Authority and the Santa Clara County Parks Department for law enforcement services. The Santa Clara County Sheriff's Office has 586 sworn personnel assigned to these and other divisions.

There are twenty-eight deputies allocated to the City of Cupertino. Four deputies are assigned to traffic enforcement; three are assigned to the Motorcycle Unit and one uses a patrol car. Two deputies are School Resource Officers, providing the fourteen schools in Cupertino with a law enforcement resource and liaison to the Sheriff's Office. One additional deputy handles all the enforcement incidents that arise at the schools. The remaining twenty-one deputies perform routine patrol functions, twenty-four hours a day.

The Santa Clara County Sheriff's Office is committed to providing progressive law enforcement services and maintaining healthy community partnerships. Deputies are routinely involved in community events in the City of Cupertino. The West Valley Division offers many community oriented services in addition to routine law enforcement services. Some of these programs are Child Fingerprinting, Property ID, Teen Academy, Child Safety Seat Inspections, and Vacation Patrol Checks.

Public Works

The Department of Public Works is responsible for the design, construction, and maintenance of City owned facilities including public streets, sidewalks, curb, gutter, storm drains, street trees, street lights, and signs. Key departments include:

- Maintenance
- Engineering & Development

The Engineering Division provides design and construction administration for all capital improvement programs including streets, buildings, parks, utilities, and pavement maintenance. The Division reviews plans for all private developments including residential, commercial and industrial to ensure conformance with City standards. Inspection services ensure compliance with city standards on all public and private projects.

- Capital Projects
- Traffic Engineering
- Environmental Programs

With a clear hazard mitigation strategy, as outlined in this Local Hazard Mitigation Plan, the City’s departments are able to implement their ongoing policies and programs with consideration of the identified hazard risks. In addition, these departments become aware of priority mitigation actions and can offer resources (financial or staffing) to assist with the implementation of those actions.

11.3.2.2 Technical Capability

For a successful mitigation program, it is necessary to have a diverse breadth of staff and technical capabilities. Planners, engineers, building inspectors, emergency managers, floodplain managers, people familiar with Geographic Information Systems (GIS), and grant writers are all essential to implementing mitigation actions. The following table summarizes the staffing capabilities available within the City of Cupertino.

Table 11-9: Technical Capability Matrix

Technical Capability Matrix	
<i>Land Use Planners</i>	Planning Department
<i>Emergency manager</i>	Emergency Services
<i>Civil or Building Engineers</i>	Building Department, Public Works
<i>Floodplain manager</i>	Public Works
<i>Staff knowledgeable about hazards</i>	Emergency Services
<i>GIS staff</i>	Information Technology Department
<i>Grant writers</i>	Public Works

11.3.2.3 Fiscal Capability

Sales Tax and Property Tax are the primary sources of Cupertino’s financial resources. The City has allocated the majority of financial resources to Public Safety and Public Works. These two categories are all relevant for implementing hazard mitigation actions.

11.3.2.4 Policy or Program Capability

The City of Cupertino has several plans and ordinances in place which provide ample opportunities for implementing the hazard mitigation strategy outlined in this plan.

11.3.2.4.1 Summary of Plans that Support Hazard Mitigation

Emergency Operations Plan

The Emergency Operations Plan chapter on Hazard Mitigation outlines Cupertino's potential hazards and echo's the General Plan's strategies to reduce hazards. In addition, the Emergency Plan outlines an extensive community outreach/public education program to provide residents and businesses the knowledge and skills necessary to mitigate for themselves.

General Plan

Cupertino's General Plan promotes health and safety. Safety measures include conventional police, fire, paramedic and health services; disaster planning, safe buildings and site design oriented to the public streets, neighborhood watch programs, and protection from natural hazards including earthquakes and landslides and an ample supply of safe, well designed parks, open space, trails and pathways.

Cupertino's General Plan facilitates hazard mitigation in several ways. Following is a brief summary of three General Plan Elements highlighting the capabilities for implementing and supporting hazard mitigation.

(1) Safety Element

Safety plays a significant role in disaster planning for Cupertino. The City has developed its own emergency plan to increase emergency preparedness. This plan has been prepared in compliance with the National Incident Management System (NIMS) guidelines. It addresses multiple hazards and functions under a continuous cycle of preparation, response, recovery and mitigation. Cupertino has its own goal to develop a high level of emergency preparedness to cope with both natural and human caused disasters. Resources are available through the Emergency Preparedness website and are available in written and digital form.

The Safety Element outlines the fire risk recognized by the City. Cupertino's geographical boundaries extend from the lower foothills of the Santa Cruz Mountain Range at its westerly limits to the urbanized valley floor at its northerly, easterly and southerly limits. For this reason, Cupertino is exposed to hazards from both wild and urban fires. These two types of fire hazards have their own unique characteristics and present different fire-fighting problems and safety concerns. Wild fires are a threat to residents living in the rural areas of the foothills. If not contained, wild fires can have a devastating effect on a community, causing injuries and consuming vegetation and structures in their path. Urban fires pose other problems. They may include fires in high-rise buildings, multiple residential structures, or fires in commercial and industrial buildings where highly flammable and toxic materials may be stored.

(2) Land Use Element

Cupertino is working to apply ordinance regulations and development approvals to limit development on ridgelines, hazardous geological areas, and steep slopes. The City strives to follow natural land contours to avoid mass grading during new construction, especially in flood hazard or hillside areas. The Land Use element states that grading large, flat areas shall be avoided through land use planning. Cupertino assesses the potential air pollution effects of future land use and transportation planning to ensure that planning decisions support regional goals of improving air quality.

Cupertino determined that land use and building design standards must relate to the degree of geologic and seismic hazards in the zone in which a proposed project would be built so that an acceptable level of risk can be assigned. City planning staff work with developers to ensure that all CEQA requirements are met, encourage performance based design to exceed life safety, and seek to achieve continuing functionality of critical infrastructure and facilities where hazardous materials and hazardous wastes are used or stored. Cupertino is working to reinforce the existing public education programs such as our Cert Training program, relating to land use in order to help residents reduce risk to earthquake hazards. The city recognizes that multi-story buildings increase risks of fire. The city is working to ensure that adequate fire protection is built into the design of new construction and require on-site fire suppression materials and equipment.

Cupertino is aware that increased land use through development necessitates further floodplain management. The Land Use element states that land uses in the flood plain should allow the public access to the creek, but materials that would restrict the free flow of the creek waters or significantly disturb the riparian environment should be prohibited. To meet the demand of increasing development the city has developed different land use categories and their exposure to acceptable risk.

(3) Housing Element

All private occupancy structures are grouped according to the acceptable level of risk. Cupertino publishes and promotes emergency preparedness activities and drills. The City strives to use the Cupertino Scene and website to provide safety tips that may include identifying and correcting household hazards, knowing how and when to turn off utilities, helping family members protect themselves during and after an earthquake, recommending neighborhood preparation activities, and advising residents to maintain an emergency supply kit containing first-aid supplies, food, drinking water and battery operated radios and flashlights. The city encourages participation in Community Emergency Response Team (CERT) training in which neighborhood groups are taught how to care for themselves during disasters. The City also teaches a highly successful, free, three hour, Personal Emergency Preparedness Workshop on a monthly basis.

Prevention of Floodplain Damage Ordinance

Cupertino's Prevention of Flood Damage Ordinance requires a development permit to be obtained before any new construction or substantial improvements are allowed within a special flood hazard area. In order to obtain a permit, the following information is required: proposed elevation of the lowest floor of all structures, proposed elevation of any structures which have been floodproofed, and a description of the extent to which any watercourse will be altered or relocated as a result of the development. The Director of Public Works is appointed to administer and implement this Ordinance and also has the responsibility of granting or denying development permit applications. Methods used to reduce flood damage include anchoring, elevating, and building with flood resistant materials. New residential construction should have the lowest floor, including the basement, elevated to one foot above base flood elevations. New and replacement water supply and sanitary sewage systems should be designed to minimize infiltration of floodwaters into the system and discharge from the systems into floodwaters. Regulations for subdivisions, manufactured homes, nonresidential construction, and more stringent standards for Zone AO and Floodways are also listed in this Ordinance.

Capital Improvements Plan

Commercial development is growing in Cupertino. Homestead Square, which is now the site of 153,000 square feet of commercial retail space, is scheduled to grow to approximately 205,000 square feet. Cupertino Village, near Homestead Square, is also expected to grow, adding approximate 25,000 square feet of retail and 54,000 square feet of structured parking. 46,000 square feet of new retail space is also expected to be built in Cupertino Square.

The expansion of mixed use development is also occurring in Cupertino. The Oaks Shopping Center, consisting of 56,000 square feet of a hotel and retail/office/convention center space, has been approved. A large scale mixed use development project, Main Street Cupertino, is approved to take place on Stevens Creek Boulevard between Finch Avenue and Tantau Avenue. This project would consist of up to 150,000 square feet of commercial use, 100,000 square feet of office space, a 145,000 square foot athletic club, 160 senior housing units, a 5-story hotel, and a .75 acre park. Another large scale mixed use development project that is under construction is the Rose Bowl Mixed Use Project, which includes 204 residential units, 120,000 square feet of new retail space, and a parking structure.

Residential development is also taking place in Cupertino. The largest of these projects, The Grove and Villa Serra Apartments on North Stelling Road between Homestead Road and Interstate 280, will create a total of 504 units, a recreational facility, and a public park on 25.43 acres.

11.3.2.4.2 Summary of Ordinances that Support Hazard Mitigation

Table 11-10: Availability of Ordinances that Support Hazard Mitigation

Availability of Ordinances that Support Hazard Mitigation								
<i>Jurisdiction</i>	<i>Flood Damage Prevention Ordinance</i>	<i>Zoning Ordinance</i>	<i>Subdivision Ordinance</i>	<i>Post-disaster Red/Rec. Ordinance</i>	<i>Building Code</i>	<i>Fire Code</i>	<i>National Flood Insurance Program</i>	<i>NFIP Community Rating System</i>
<i>City of Cupertino</i>	Yes	Yes	Yes	Pending	Yes	Yes	Yes	Yes

The City of Cupertino identified several ordinances and policies currently utilized for hazard mitigation in the matrix of regional mitigation strategies prepared by ABAG as part of the 2010 plan update. Below is a summary of these key ordinances and policies.

Cupertino Municipal Code – Stormwater Pollution Prevention and Watershed Protection

The U.S. Environmental Protection Agency has identified urban storm water runoff as the leading cause of water pollution in the United States. Furthermore, both federal and state agencies have identified storm water runoff as a major source of pollution adversely impacting the beneficial uses of the South San Francisco Bay. As a result, the California Regional Water Quality Control Board, San Francisco Bay Region, has issued the City of Cupertino a National Pollutant Discharge Elimination System (“NPDES”) permit. The NPDES permit requires that the City of Cupertino implement a Storm Water Management Program to control storm water runoff so that it does not cause or contribute to a violation of the water quality standards of South San Francisco Bay.

The purpose of this Chapter is, therefore, to protect health, life, resources and property by providing minimum requirements designed to control the discharge of pollutants into the City of Cupertino's storm drain system and to assure that discharges from the City of Cupertino storm drain system comply with applicable provisions of the Federal Clean Water Act and National Pollutant Discharge Elimination System Permit No. CA0029718. Enactment of this Chapter falls within the scope of the City of Cupertino police powers to protect the health, safety, and welfare of its residents. Nothing in this Chapter is intended to preclude more stringent federal or state regulation of any activity covered by this Chapter.

Cupertino Municipal Code – Prevention of Flood Damage

This chapter shall apply to all areas of special flood hazard within the City. The Special Flood Hazard Area identified by the Federal Insurance Administration in a scientific and engineering report entitled “The Flood Insurance Study for the City of Cupertino,” dated November, 1979, with accompanying Flood Insurance Rate Maps as amended from time to time, is adopted by reference and declared to be a part of this chapter. The Flood Insurance Study is on file in the Department of

Public Works. The goal of this chapter is to reduce the amount of damages from floods in the City of Cupertino.

Cupertino Municipal Code – Fire Code

This is adopted by the City of Cupertino for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion, that certain code known as the 2007 California Fire Code and also the 2006 International Fire Code, including Appendix Chapters 1, 4, B and C and the whole thereof, save and except such portions as are hereinafter deleted, modified or amended by this ordinance, of which one copy has been filed for use and examined by the public in the office of the City Building Official and the City Fire Chief and the same adopted and incorporated as fully as if set out at length herein, and from the date on which this ordinance shall take effect, the provision thereof shall be controlling within the limits of the City of Cupertino. There are sections of the code relating to general precautions, emergency planning and preparedness, and a large portion of the code contains requirements for wildland-urban interface fire areas.

11.3.3 National Flood Insurance Program

For decades, the national response to flood disasters was simply to provide disaster relief to flood victims. Funded by citizen tax dollars, this approach failed to reduce losses and didn't provide a way to cover the damage costs of all flood victims. To compound the problem, the public generally couldn't buy flood coverage from insurance companies, because private insurance companies consider floods too costly to insure. In the face of mounting flood losses and escalating costs of disaster relief to U.S. taxpayers, Congress established the National Flood Insurance Program (NFIP). The goals of the program are to reduce future flood damage through floodplain management, and to provide people with flood insurance. Community participation in the NFIP is voluntary.

The City of Cupertino has participated in the National Flood Insurance Program since 1974. All residents of the City are eligible to purchase federal flood insurance. The City continues to maintain full compliance with the NFIP.

The Public Works Department administers the City of Cupertino's Flood Prevention Program. The City of Cupertino participates in the NFIP with several designated areas dispersed throughout the city located within an identified flood zone. Cupertino adopted a "Prevention of Flood Damage" ordinance in the City's Municipal Code. The GIS coordinator with the Information Technology Department maintains the current GIS map layer that identifies the flood zones. There have been no issues with community participation and effective implementation of the program. Cupertino's Flood ordinance calls for the continued participation in floodplain management and in participation with the NFIP.

11.3.3.1 Community Rating System (CRS)

The CRS is a voluntary part of the National Flood Insurance Program that seeks to coordinate all flood-related activities, reduce flood losses, facilitate accurate insurance rating, and promote public awareness of flood insurance by creating incentives for a community to go beyond minimum floodplain management requirements. The incentives are in the form of insurance premium discounts. CRS ratings are on a 10-point scale (from 10 to 1, with 1 being the best rating), with residents of the community who live within FEMA’s Special Flood Hazard Areas (SFHA) receiving a 5% reduction in flood insurance rates for every Class improvement in the community’s CRS rating.

The City of Cupertino joined the Community Rating System in October 2005 and has a current class rating of 8. Properties within FEMA’s Special Flood Hazard Areas in Cupertino receive a 10% reduction in flood insurance rates. Properties outside the SFHA within Cupertino receive a 5% discount in flood insurance rates.

All insurance rates are based on where the structure is located in FEMA’s Flood Insurance Rate Maps (FIRMs). The most recent Digital FIRMs were adopted by the City on May 18, 2009.

11.3.3.2 Repetitive Loss Properties

The Federal Emergency Management Agency (FEMA) insures properties against flooding losses in the Bay Area through the [National Flood Insurance Program](#).

As part of the process to reduce or eliminate repetitive flooding to structures across the United States, FEMA has developed an official Repetitive Loss Strategy. The purpose behind the national strategy is to identify, catalog, and propose mitigation measures to reduce flood losses to the relatively few number of structures that absorb the majority of the premium dollars from the national flood insurance fund.

A *repetitive loss property* is defined by FEMA as “a property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year period since 1978.”

The City of Cupertino has one repetitive flood loss property. The following is a table summarizing repetitive losses in the City. The City plans to require flood damage prevention measures per the adopted Flood Ordinance as a condition of issuing a building permit to repair the damage.

City and County	Total Payments (\$)	Average Payment (\$)	Losses	Properties	Properties (as of 2004)
Cupertino	49,259.62	24,629.81	2	1	1

Source: <http://quake.abag.ca.gov/mitigation/floodloss/>

11.3.4 Resource List:

Documents used in the assembly of this Capability Assessment include: City website, General Plan, Prevention of Flood Damage Ordinance, Development Activity Report, Cupertino Municipal Code – Stormwater Pollution Prevention and Watershed Protection, Cupertino Municipal Code – Prevention of Flood Damage, Cupertino Municipal Code – Fire Code.

11.4 VULNERABILITY ASSESSMENT

11.4.1 Critical Facilities

The City identified 24 critical facilities during the development of this 2010 annex. A summary listing of these facilities is shown in Table 11-11.

Table 11-11: City of Cupertino Critical Facilities

Facility Name	Address	Critical Function
Water Tank	MERCEDES RD (end)	Utility
Blackberry Retreat Center	21975 SAN FERNANDO AVE	EOC
Monta Vista Classroom	22601 VOSS AVENUE	Shelter
Monta Vista Rec Center	22601 VOSS AVENUE	Shelter
Water Tank	RANCHO SAN ANTONIO CO PARK	Utility
Svc Ctr - Grounds Shop	10555 MARY AVENUE	Response/Recovery Ops
Svc Ctr - Mechanic Shop	10555 MARY AVENUE	Response/Recovery Ops
Svc Ctr - Admin	10555 MARY AVENUE	Response/Recovery Ops
Svc Ctr - Fuel Island	10555 MARY AVENUE	Response/Recovery Ops
Svc Ctr - Hazmat Storage	10555 MARY AVENUE	Response/Recovery Ops
Svc Ctr - Welding Shop	10555 MARY AVENUE	Response/Recovery Ops
Sports Center	21111 STEVENS CREEK	Shelter
Senior Center	21251 STEVENS CREEK	Shelter
Community Hall	10350 Torre Avenue	Shelter
Library	10800 Torre Avenue	Cultural Value
Pumping Station	10450 MANN DRIVE	Utility
Water Tank	10450 MANN DRIVE	Utility
Stocklmeir	22120 Stevens Creek Blvd	Historic Structure
Tank House	Next to Blue Pheasant	Historic Structure
Well #3	Flowering Peard Dr & Cedarbrook	Utility
Well #2	HOMESTEAD RD & FRANCO CT	Utility
Quinlan Community Center	10185 N. STELLING RD	Shelter
Svc Ctr - Equipment Storage	10555 MARY AVENUE	Response/Recovery Ops

Facility Name	Address	Critical Function
City Hall	10300 TORRE AVENUE	EOC

This list of critical facilities and available information for them is available digitally. A complete printing of the critical facilities data is included in Cupertino Attachment 2: Cupertino Exposure Analysis.

11.4.2 Exposure Analysis

Exposure analyses are used to quantify assets which are “exposed” to risk. This is the first step towards understanding the complete value of assets at risk to identified hazards. This section includes an exposure analysis (discussion of assets at risk) for the profiled hazards in Section 4.

Overlay analyses (using GIS) were conducted for the map able hazards such as wildfire, flood, and the earthquake related hazards. These analyses compare the location of the critical facilities with the mapped hazard area (i.e. floodplains, wildfire threat zones, shaking potential areas, etc.) and result in a listing of which facilities are at most risk to which hazard. Not all hazards are map able and some hazards, such as drought, are equally likely throughout the entire County. For these hazards, a general exposure summary is presented in Section 11.4.2.1.

11.4.2.1 General Exposure

ABAG’s website (<http://quake.abag.ca.gov/mitigation/landuse/>) presents the results of the regional exposure analysis through a searchable online database. Users can view the summaries of land use and infrastructure exposed to the map able hazards. This section presents the general summary of land use and infrastructure in the City of Cupertino. These should be considered at risk to the hazards of equal likelihood throughout the entire County geography (i.e. drought, extreme heat, thunderstorm, etc).

JURISDICTION: Cupertino
COUNTY: Santa Clara
HAZARD: Land Use
BASIS: Existing Land Use, 2005 using 2009 hazard mapping

	<u>Total Acres</u>
TOTAL RESIDENTIAL LAND [excluding mixed use]:	3,042
1 unit/1-5 acre lot (Rural Residential)	273
1-3 units/acre	267
3-8 units/acre	2,119
>8 units/acre	383
Mobile Home Parks	0
TOTAL MIXED RESIDENTIAL/COMMERCIAL:	0
Within a Land Area	0

Within a Building	0
Mixture of Above or Unknown	0
TOTAL MIXED COMMERCIAL/INDUSTRIAL:	32
TOTAL INDUSTRIAL [excluding mixed]:	267
Light Industrial	31
Heavy Industrial	227
Salvage/Recycling, Mixture or Unknown	0
Food Processing, Warehousing	9
TOTAL MAJOR INFRASTRUCTURE:	1,252
Roads, Highway and Related Facilities	1,244
Rail Stations, Yards and Related Facilities	0
Airports	0
Ports	0
Power Facilities	0
Municipal Wastewater Facilities	0
Municipal Water Supply Facilities	0
Communication Facilities	9
Infrastructure--Other, Unknown	0
TOTAL MILITARY:	0
Military Residential	0
Military Hospital	0
Military Communications	0
Military Airport or Port	0
General Military	0
Open Military Lands	0
Closed Military Facilities	0
TOTAL COMMERCIAL/SERVICES [excluding mixed]:	995
Subtotal-Commercial:	562
Retail/Wholesale	213
Research/Office	167
Comm. Outdoor Recreation	13
Other, Mixture or Unknown	169
Subtotal-Education:	376
Educational Offices and Day Care	0
Elementary/Secondary	249
Colleges/Universities	125
Stadium Facilities	0
University Housing	0
Day Care Facilities	2
Subtotal-Hospitals and Health Care	3

Trauma Center Hospitals	0
Community or Local Hospitals	3
Surgery Centers	0
State Prisons	0
State Mental Health Facilities	0
Clinics and Long-Term Care	0
Subtotal-Public Institutions:	53
Convention Centers	0
Sports Stadiums	0
Churches/Synagogues/Other	46
City Halls/County Administration	2
Local Jails	0
Local Police/Fire/Emergency	0
Other-Comm. Centers/Libraries	5
TOTAL URBAN OPEN:	571
Golf Courses	53
Racetracks	0
Campgrounds and Other	0
Cemeteries	49
Parks	358
Vacant--Cleared for Redevelopment	0
Vacant--Undeveloped	92
Mixed Urban Open, Including Parks	19
TOTAL AGRICULTURE:	13
Cropland and Pasture	3
Orchards/Groves/Vineyards	10
Greenhouses	0
Confined Feeding	0
Farmsteads and Inactive	0
TOTAL RANGELAND:	522
Herbaceous Range	456
Shrub and Brush	66
Mixed Range	0
TOTAL WETLANDS [Based on USGS Mapping]:	0
Forested	0
Non-Forested	0
Salt Evaporators	0
Wetlands--Unknown	0
TOTAL FOREST LAND:	237
Deciduous	17

Evergreen	163
Mixed Forest	56
TOTAL SPARSELY VEGETATED:	31
Beaches	0
Other Sand	0
Bare Rock	3
Mines/Quarries	27
Transitional--Landfills	0
Transitional--Other	0
Transitional--Mixture	0
Mixed Sparsely Vegetated	0
	=====
	<u>Total Acres</u>
TOTAL URBAN LAND:	6,159
TOTAL NON-URBAN LAND:	803
GRAND TOTAL:	6,962

Source: Association of Bay Area Governments, 2009.

Note: Because of independent rounding, subcategories may not add to totals.

JURISDICTION: Cupertino
COUNTY: Santa Clara
HAZARD: Land Use
BASIS: Existing Infrastructure, 2009

Total Miles

ROADS:	203
Interstate Highway	11
Primary US/State Highway	0
Secondary State/Co Highway	33
Local Road	140
Misc Ramp/Road	18
TRANSIT:	0
Altamont Commuter Express (ACE)	0
Amtrak	0
Bay Area Rapid Transit (BART)	0
Caltrain	0
San Francisco Muni Metro	0
Santa Clara VTA	0
	4

RAIL:
All Railroads 4

PIPELINES:
Pipelines Under Roads 174
=====

Source: Association of Bay Area Governments, 2009.
Miles of pipeline is an approximation based on miles of road within water service area boundaries and does not include major aqueducts.
Miles of pipeline is miles of water pipelines. Miles of sewer pipelines should be approximately the same.

Note: Because of independent rounding, subcategories may not add to totals.

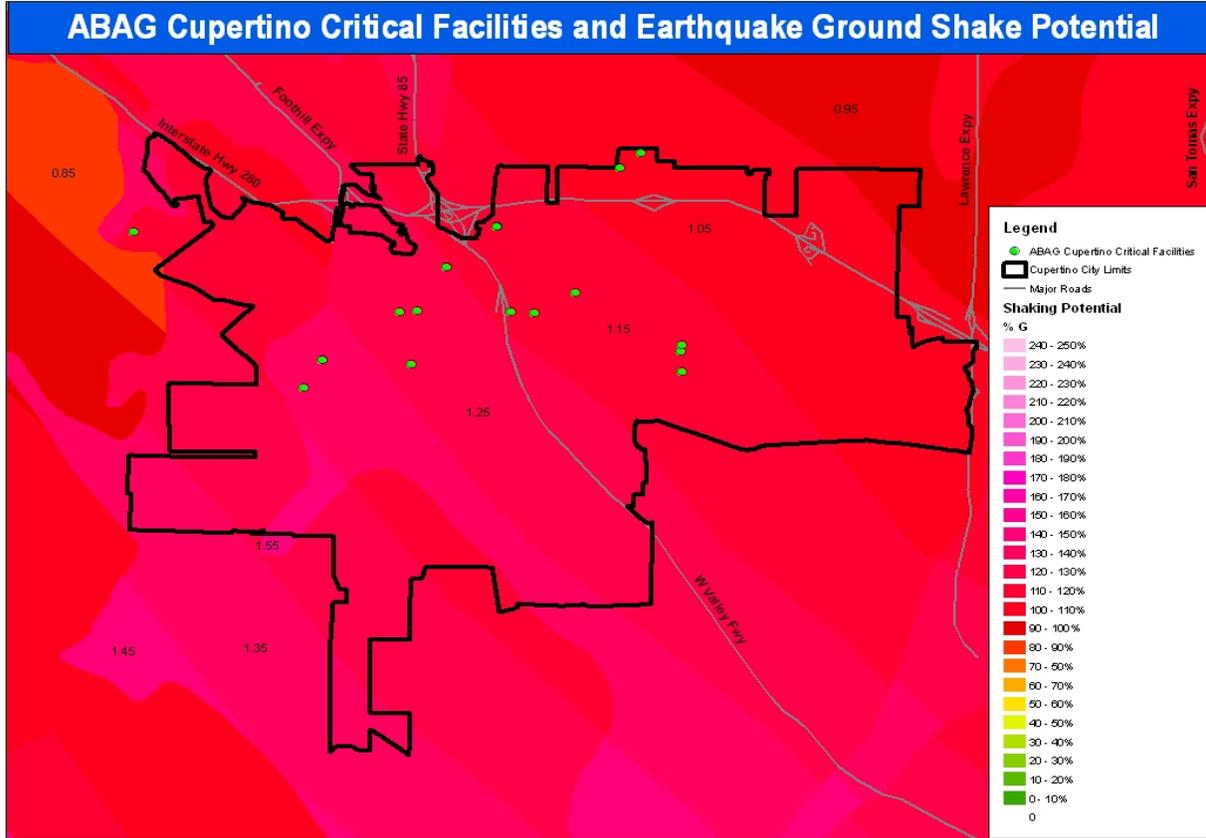
11.4.2.2 Critical Facilities Exposure by Hazard

ABAG's website (<http://quake.abag.ca.gov/mitigation/cf2010/>) presents the results of the regional facilities exposure analysis through a searchable online database. Users can view the summaries of how many facilities are exposed to the map able hazards by category: health care facilities, schools, critical facilities, and bridges/interchanges. For the purposes of developing a City specific mitigation strategy, this section identifies which of the City's critical facilities are located in the mapped hazard areas.

The complete results from ABAG's exposure analysis are available digitally. A complete printing of these results is included in Cupertino Attachment 2: Cupertino Exposure Analysis.

11.4.2.2.1 Earthquake Related Hazard

Ground Shaking



Source: CA Department of Conservation

Critical Facility	Peak Acceleration (%G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
Water Tank, Mercedes Dr.	135	Violent	Heavy	IX	\$19,085	\$2,166,756
Monta Vista Classroom	135	Extreme	Very Heavy	X+	\$0	\$0
Monta Vista Rec Center	135	Extreme	Very Heavy	X+	\$3,625,015	\$246,774
Blackberry Farm Retreat Center	125	Extreme	Very Heavy	X+	\$726,996	\$0
Pumping Station	125	Extreme	Very Heavy	X+	\$1,117,038	\$0

Critical Facility	Peak Acceleration (%G)	Perceived Shaking	Potential Damage	Instrumental Intensity	Bldg Insured Value	Contents Insured Value
Water Tank, 10450 Mann Dr.	125	Violent	Heavy	IX	\$2,052,680	\$621,611
Stocklmeier	125	Extreme	Very Heavy	X+	\$415,426	\$0
Tank House	125	Extreme	Very Heavy	X+	\$415,426	\$0
Water Tank, Rancho San Ant.	125	Extreme	Very Heavy	X+	\$972,362	\$0
Svc Ctr - Grounds Shop	115	Violent	Heavy	IX	\$989,059	\$269,958
Svc Ctr - Mechanic Shop	115	Violent	Heavy	IX		
Svc Ctr - Admin	115	Violent	Heavy	IX		
Svc Ctr - Fuel Island	115	Violent	Heavy	IX		
Svc Ctr - Hazmat Storage	115	Violent	Heavy	IX		
Svc Ctr - Welding Shop	115	Violent	Heavy	IX	\$1,670,375	\$234,379
Svc Ctr - Equipment Storage	115	Violent	Heavy	IX		
Sports Center	115	Violent	Heavy	IX		
Senior Center	115	Violent	Heavy	IX	\$4,063,493	\$269,056
Community Hall	115	Violent	Heavy	IX	\$4,938,426	\$424,931
Library	115	Violent	Heavy	IX	\$2,118,227	\$1,129,537
Quinlan Community Center	115	Violent	Heavy	IX	\$22,295,119	\$2,375,017
City Hall	115	Violent	Heavy	IX	\$8,084,585	\$405,696
Well #2	105	Violent	Heavy	IX	\$6,189,190	\$2,084,795
Well #3	105	Violent	Heavy	IX	\$19,085	\$994,576
					\$0	\$888,015

Soft Story Multi-Family Dwellings

In 2003, the Collaborative for Disaster Mitigation at San Jose State University completed an “*Inventory of Soft-First Story Multi-Family Dwellings in Santa Clara County*”. At that time, the city of Cupertino had 53 soft-first story multi-family buildings including 2,597 residential units housing 6,493 occupants. Figure 11-1 below identifies the locations of these buildings. Note: This inventory

did not seek to identify if structures had been seismically updated. This map does not imply that the structures are unsafe. Additional investigation is needed to verify which structures actually need to be retrofitted.

Inventory of Soft-First Story Multi-Family Dwellings City of Cupertino

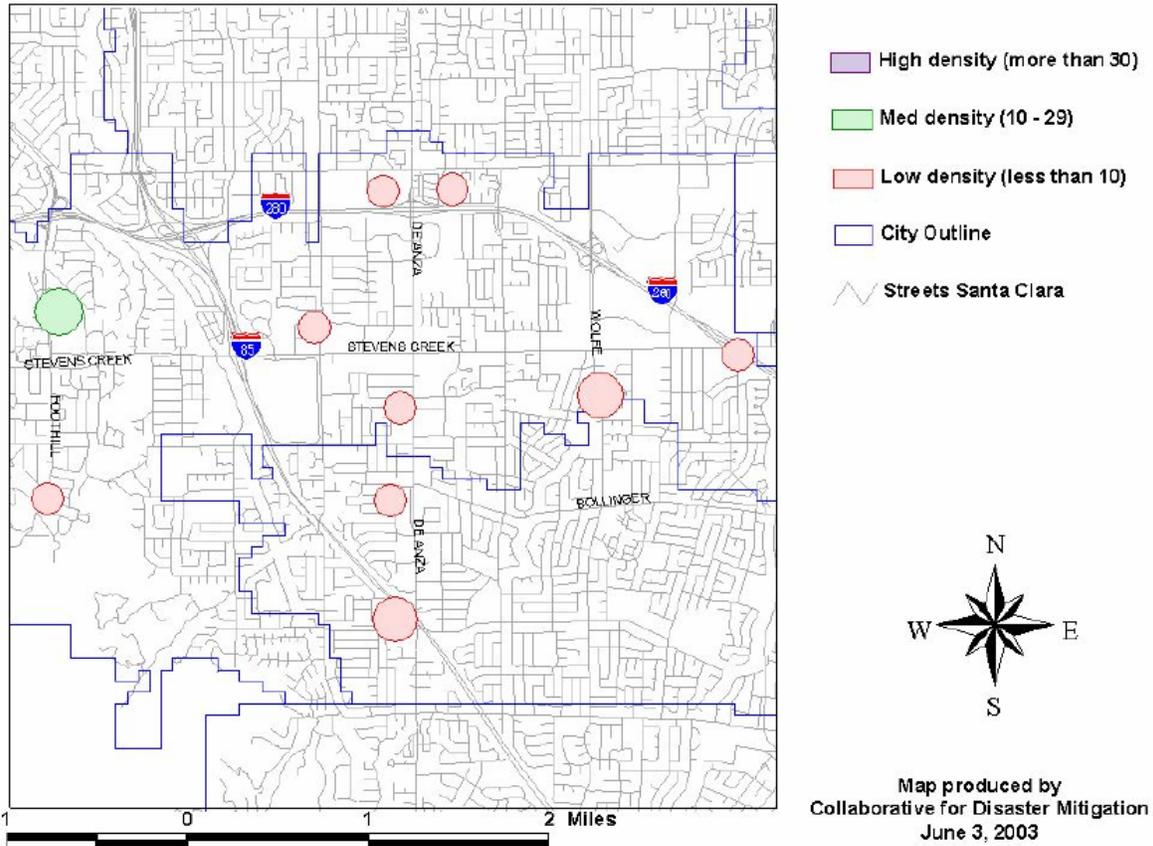
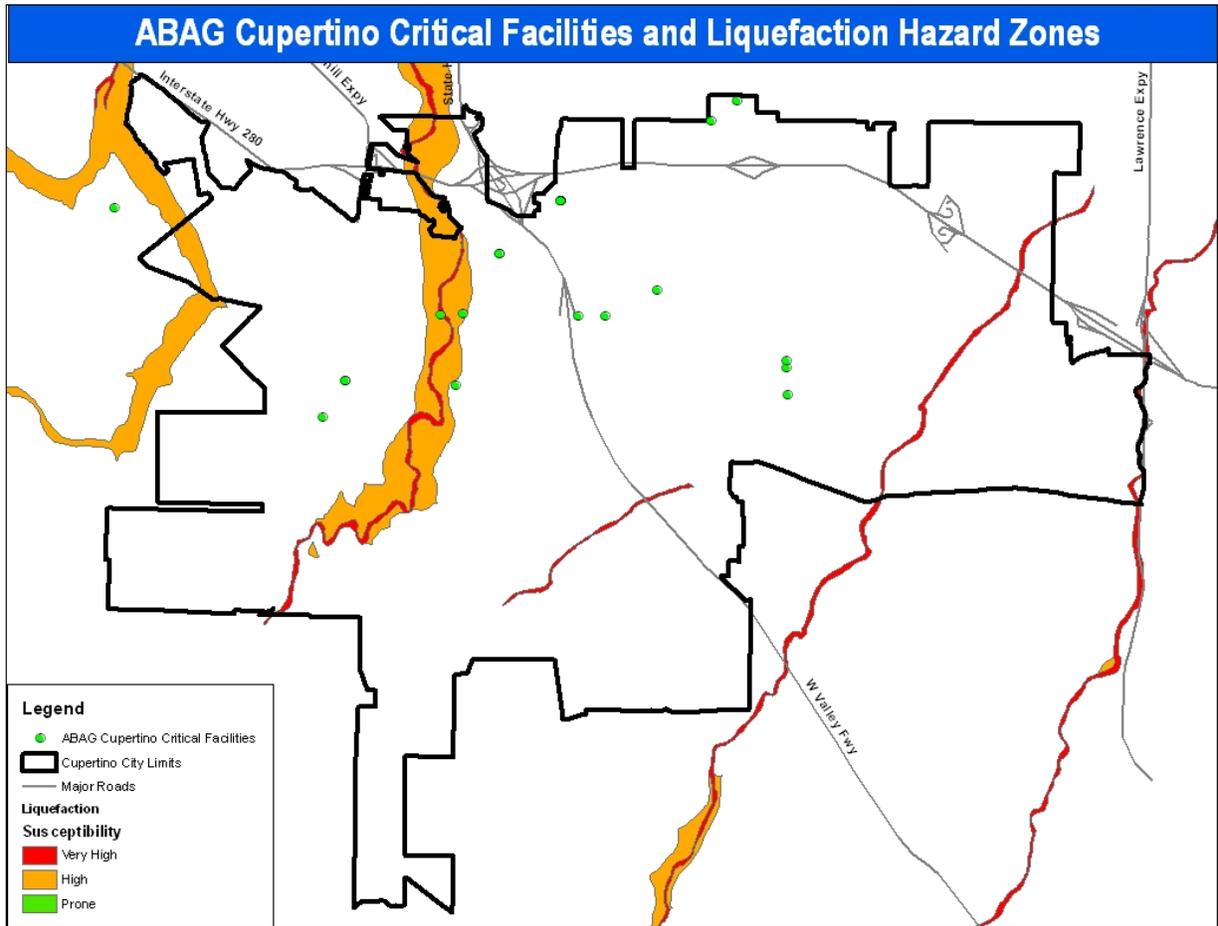


Figure 11-1: Inventory of Soft-First Story Multi-Family Dwellings-City of Cupertino

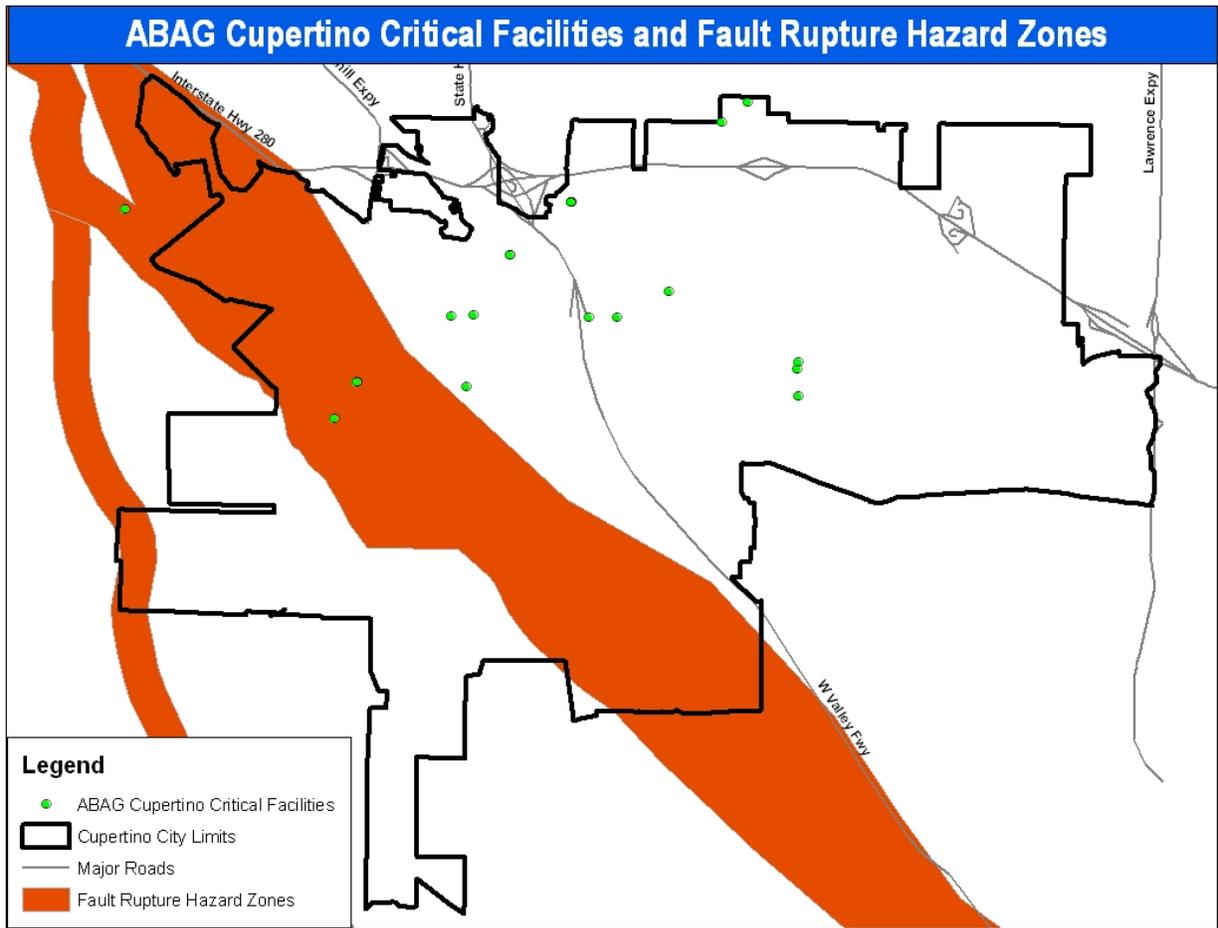
Earthquake Induced Liquefaction



Source: Santa Clara Planning Office

<i>Critical Facility</i>	<i>Liquefaction Hazard Zone</i>	<i>Bldg Insured Value</i>	<i>Contents Insured Value</i>
Tank House	High	\$415,426	\$0
Stocklmeier	High	\$415,426	\$0

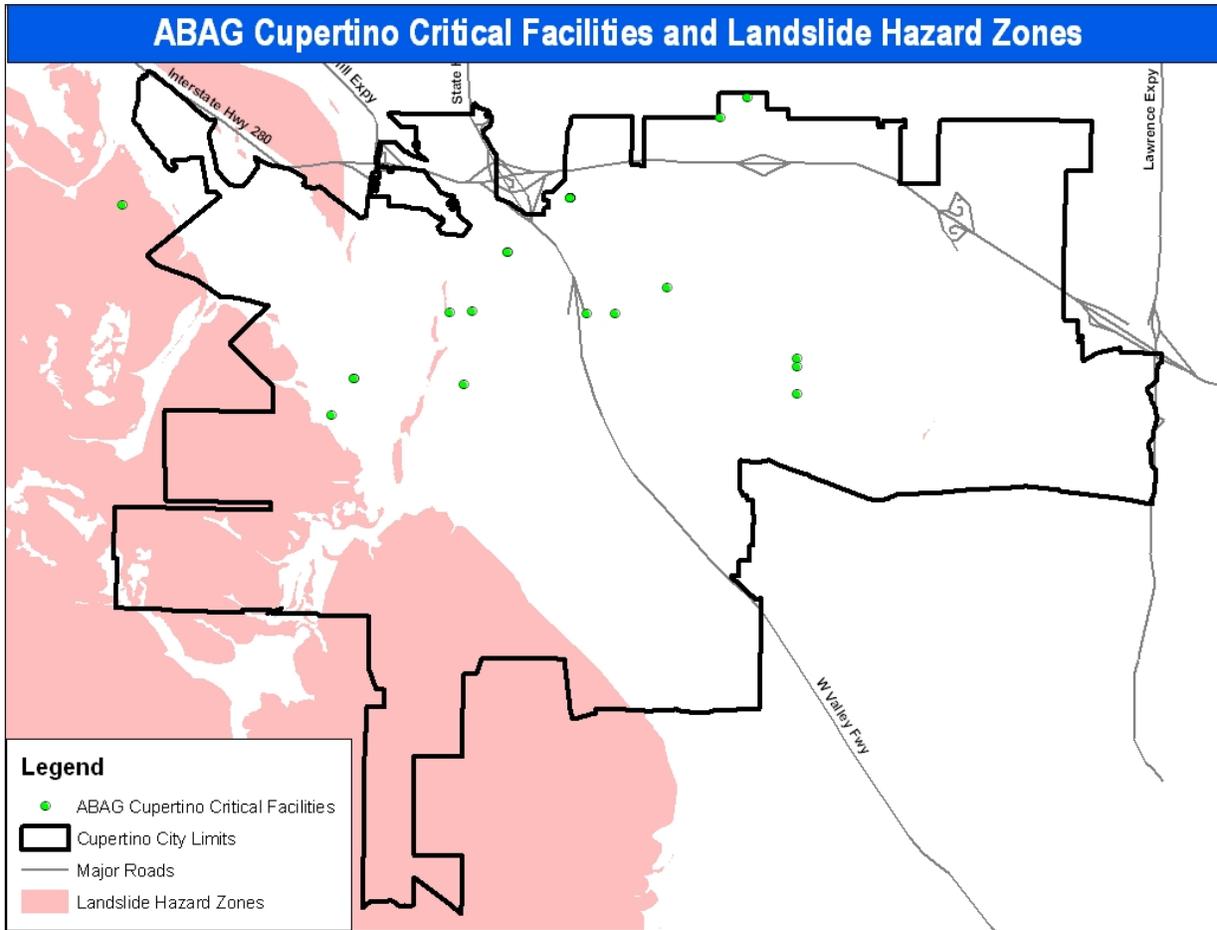
Surface Rupture



Source: California Geologic Survey, State of CA Department of Conservation

Critical Facility	Within Fault Rupture Hazard Zone	Bldg Insured Value	Contents Insured Value
Water Tank, Mercedes Dr.	Yes	\$19,085	\$2,166,756
Monta Vista Classroom	Yes		
Monta Vista Rec Center	Yes	\$3,625,015	\$246,774
Water Tank, Rancho San Antonio	Yes	\$972,362	\$0

Earthquake Induced Landslides



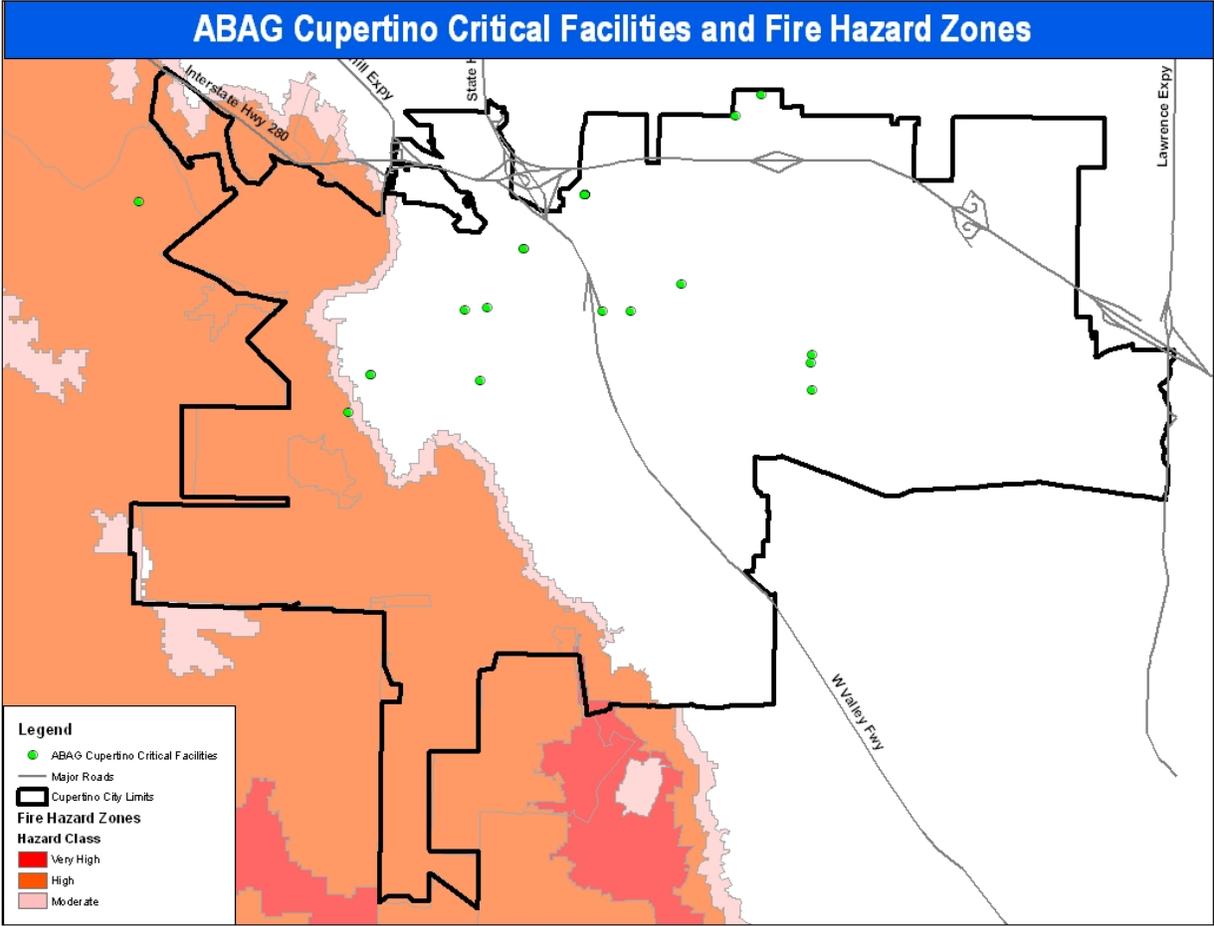
Source: Santa Clara Planning Office, CA State Department of Conservation

Critical Facility	Within Landslide Hazard Zones	Bldg Insured Value	Contents Insured Value
Water Tank, 10450 Mann Dr.	Yes	\$2,052,680	\$621,611

11.4.2.2.2 Infrastructure Failure

The City of Cupertino does not have any unique concerns or vulnerabilities regarding the hazard of infrastructure failure as presented in Section 4.

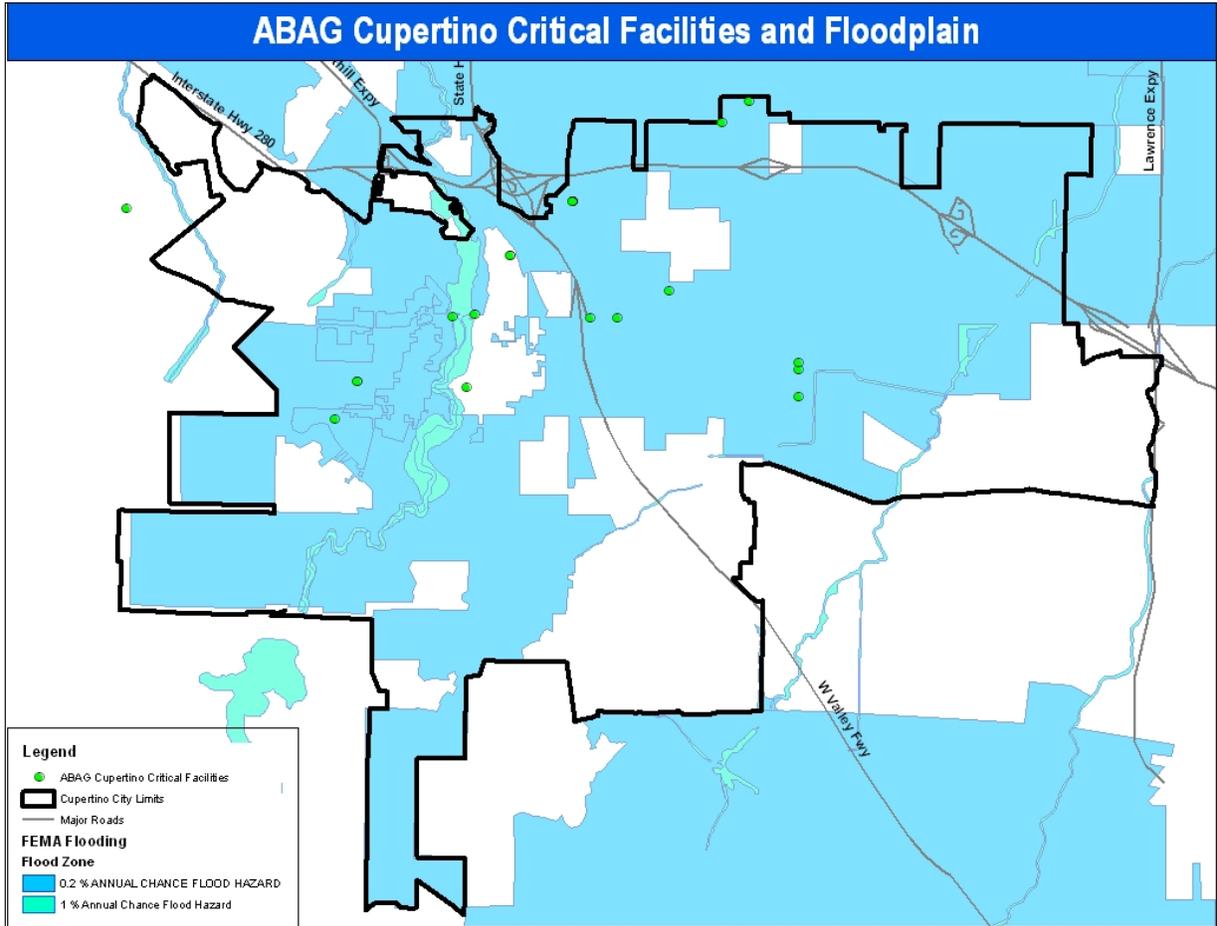
11.4.2.2.3 Wildfire



Source: CA Department of Forestry and Fire Protection

Critical Facility	Fire Hazard Zone	Bldg Insured Value	Contents Insured Value
Water Tank, Mercedes Dr.	High	\$19,085	\$2,166,756
Water Tank, Rancho San Antonio	High	\$972,362	\$0

11.4.2.2.4 Flooding



Source: FEMA- Santa Clara County DFIRM, 2009

Critical Facility	Flood Zone (% annual chance)	Bldg Insured Value	Contents Insured Value
Stockmeier	1%	\$415,426	\$0
Water Tank, 10450 Mann Dr.	.2%	\$2,052,680	\$621,611
Monta Vista Classroom	.2%		
Monta Vista Rec Center	.2%	\$3,625,015	\$246,774
Svc Ctr-Grounds Shop	.2%	\$989,059	\$269,958
Svc Ctr-Mechanic Shop	.2%		

Svc Ctr-Admin	.2%	\$1,619,524	\$224,402
Svc Ctr-Fuel Island	.2%		
Svc Ctr-Hazmat Storage	.2%		
Svc Ctr-Welding Shop	.2%		
Svc Ctr-Equipment Storage	.2%		
Sports Center	.2%	\$4,063,493	\$269,056
Senior Center	.2%	\$4,938,426	\$424,931
Community Hall	.2%	\$2,118,227	\$1,129,537
Library	.2%	\$22,295,119	\$2,375,017
Well #2	.2%	\$19,085	\$994,576
Well #3	.2%	\$0	\$888,015
Quinlan Community Center	.2%	\$8,084,585	\$405,696
City Hall	.2%	\$6,189,190	\$2,084,795

Sea Level Rise

There are no facilities in the City of Cupertino at risk to sea level rise.

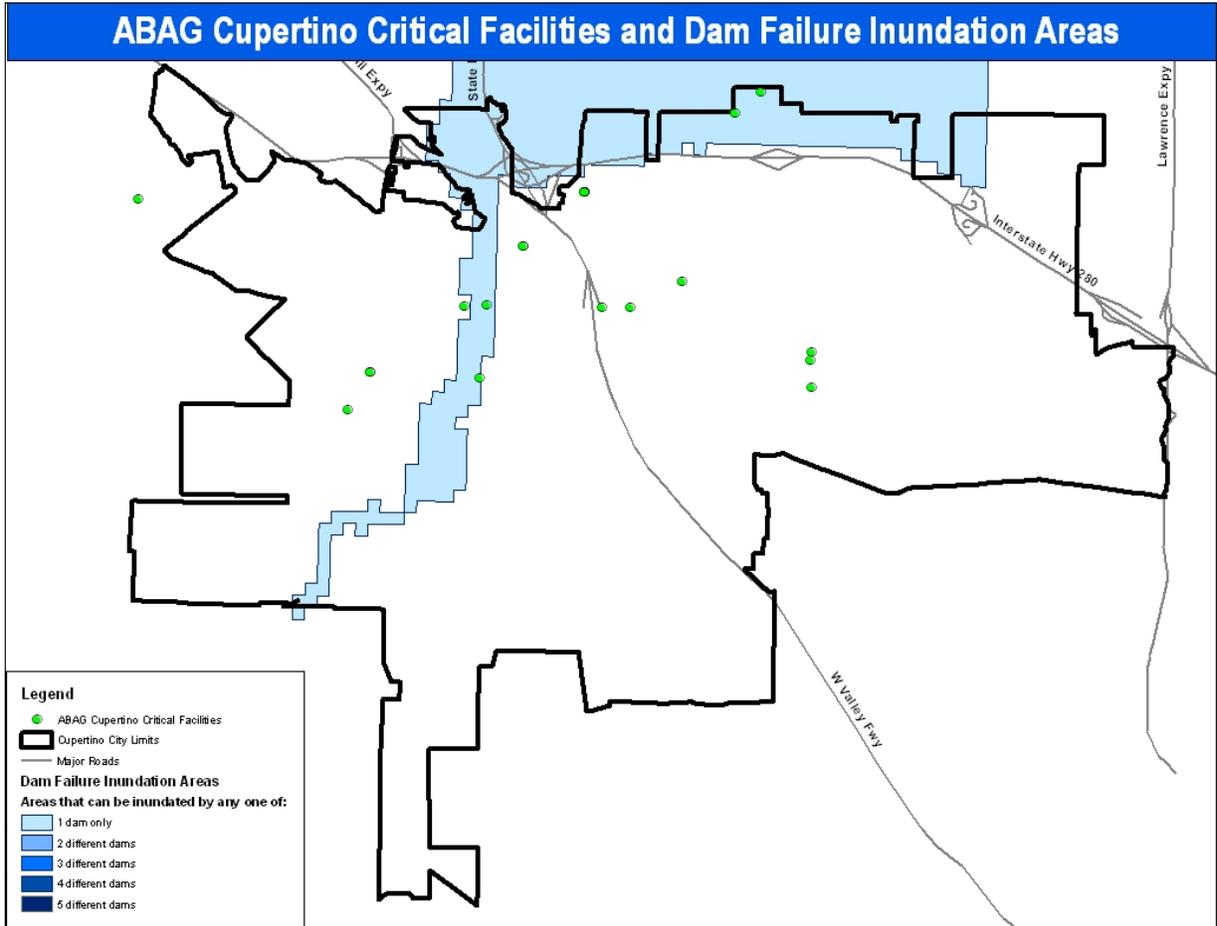
11.4.2.2.5 Drought

All populations, facilities, and assets are equally at risk to impact from drought. The City of Cupertino does not have any unique concerns regarding the hazard of drought as presented in Section 4.

11.4.2.2.6 Solar Storm

All populations, facilities, and assets are equally at risk to impact from solar storm events. The City of Cupertino does not have any unique concerns regarding the hazard of solar storm as presented in Section 4.

11.4.2.2.7 Dam Failure



Source: ABAG, 1995. Dam data from State of California Office of Emergency Services

Critical Facility	Dam Failure Inundation Area	Bldg Insured Value	Contents Insured Value
Tank House	1	\$415,426	\$0
Blackberry Retreat Center	1	\$726,996	\$0
Well #2	1	\$19,085	\$994,576
Well #3	1	\$0	\$888,015

The Stevens Creek dam and water district reservoir is uphill from the City of Cupertino and present hazards of inundation due to high ground shake potential in the area.

11.4.2.2.8 Disease Outbreak

All populations, facilities, and assets are equally at risk to impact from disease outbreak. The City of Cupertino does not have any unique concerns regarding the hazard of disease outbreak as presented in Section 4.

11.4.2.2.9 Freeze

All populations, facilities, and assets are equally at risk to impact from freeze occurrences. The City of Cupertino does not have any unique concerns regarding the hazard of freeze as presented in Section 4.

11.4.2.2.10 Wind

All populations, facilities, and assets are equally at risk to impact from high winds. The City of Cupertino does not have any unique concerns regarding the hazard of wind as presented in Section 4.

11.4.2.2.11 Heat

All populations, facilities, and assets are equally at risk to impact from extreme heat events. The City of Cupertino does not have any unique concerns regarding the hazard of heat as presented in Section 4.

11.4.2.2.12 Agricultural Pest

Agricultural pests are not of particular concern to the City of Cupertino.

11.4.2.2.13 Thunder and Lightning

All populations, facilities, and assets are equally at risk to impact from thunder and lightning events. The City of Cupertino does not have any unique concerns regarding the hazard of thunder and lightning as presented in Section 4.

11.4.2.2.14 Siltation – Bay Area

Siltation is not of particular concern to the City of Cupertino.

11.4.2.2.15 Tornado

All populations, facilities, and assets are equally at risk to impact from tornado occurrences. The City of Cupertino does not have any unique concerns regarding the hazard of tornado as presented in Section 4.

11.4.2.2.16 Hazardous Materials

Transportation accidents leading to hazardous material spills are a noted concern for the City of Cupertino. Similarly, risk of hazardous substance plumes from incubator companies and the Lehigh Cement Plant or industrial facilities on fire are a noted risk for the City of Cupertino.

11.4.2.2.17 Landslide and Debris Flow

Landslide and Debris Flow is not of particular concern to the City of Cupertino, however, because local failures may be encountered in hillside areas, a soils report is required as a condition of the issuance of a building permit.

11.4.2.2.18 Other Hazards

Land Subsidence is not of particular concern to the City of Cupertino. There are many areas in Cupertino that have Expansive Soils. In those areas that encounter expansive soil, a soils report will be required as a condition of the issuance of a building permit for construction of a building or structure. Hailstorms, Tsunamis and volcano eruptions are not of particular concern to the City of Cupertino.

11.5 MITIGATION STRATEGY

11.5.1 Primary Concerns (goals)

Based on the exposure analysis, the most critical facilities in the City of Cupertino are at risk of being impacted by ground shaking or flooding. The City has prioritized identification and retrofitting of soft story structures to be more resilient to earthquake threats. The City is mitigating flood risk on an ongoing basis through the prevention of flood damage ordinance and participation in the NFIP. Two water tanks are located within areas susceptible to surface rupture. Dam failure could cause significant inundation in the City of Cupertino. In addition, to these priorities, the City recognizes the importance of defensible space in wildland urban interface areas.

11.5.2 Mitigation Actions.

In addition to participating in the Local Planning Team and supporting the implementation of the prioritized county-wide mitigation actions, the City of Cupertino identified the following potential mitigation actions for implementation within the City.

Soft-Story Buildings

Action #1: Require all new construction, including public facilities, to be built in accordance with the most recent Building and Fire Code standards.

Action #2: Consider County Ordinance to require retrofitting of multi-family soft story structures. Consistent with the ABAG definition, “multi-family” buildings consist of three or more families.

Action #3: Support City of San Jose initiative to develop Soft-Story Mitigation Program via UASI funding. Program will entail public education materials, engineering standards and financial incentives.

Action #4: Explore various financial incentives and remove disincentives.

Action #5: Advocate expansion of State and federal relocation assistance funds and programs to aid persons and businesses displaced from hazardous buildings.

Dam Failure

Complete and adopt the dam plan including:

Action #1: Create and distribute evacuation route maps

Action #2: Develop signage for evacuation route.

Action #3: Develop some type of delineation (sign, etc.) that would advise residents what is “high ground”.

Implementation of these actions will be the responsibility of the Public Works department, shared with the Community Development department. The City will seek funding from appropriate sources such as the Hazard Mitigation Grant Program. Additionally, the Public Works and Community Development departments will coordinate to incorporate these projects in the City’s Capital Improvement Plan as appropriate.

11.6 PLAN MAINTENANCE

11.6.1 Monitoring, evaluating, updating the plan

The Building Dept, Cupertino Office of Emergency Services and Planning Dept. will be accountable for monitoring this plan and documenting progress. They will remain involved with the County’s

Local Planning Team and Mitigation Strategy Task Forces to implement countywide and city specific mitigation actions.

In coordination with the annual Local Planning Team meetings, the City will facilitate development of an annual progress/update report to be stored with this annex and inform future updates. This report will contain items that are noted to be out of date, progress of the identified mitigation actions, and additional information to be included in future revisions of this plan. Per the requirements of the Disaster Mitigation Act of 2000, these parties will facilitate an update to this annex and submit it to Cal EMA/FEMA for approval prior to the five year expiration date.

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 City will provide the opportunity for the public to comment on the updates.

11.6.2 Point of Contact

Comments or suggestions regarding this plan may be submitted at any time to Albert Salvador, Building Official, and City of Cupertino.

Contact information:

Albert Salvador
10300 Torre Ave.
Cupertino, CA 95014
alberts@cupertino.org
408.777.3206

11.7 CITY OF CUPERTINO ANNEX

11.7.1 Cupertino Attachment 1: Cupertino Strategies 2010

In preparation of the 2005 plan, the City helped ABAG in the development and review of the comprehensive regional list of mitigation strategies. Similarly, the City participated in the revision of the regional strategies for development of this annex. Appendix G of Taming Natural Hazards presents a summary list of mitigation strategies with regional priorities and the hazards mitigated. The City ranked those strategies in a spreadsheet provided by ABAG. This is a summary of those rankings.

JURISDICTION: Cupertino

Strategy	Priority	Responsible Agency or Department	Comments
ECON-a-1	Existing		Information posted on Cupertino website. No direct contact with realtors unless they initiate.
ECON-a-2	n/a		
ECON-b-1	High	Building Dept	California Bldg Code
ECON-b-2	NYC	Building Dept	Mandatory adoption Jan 1, 2011 of the 2010 California Building Code. Not mandated to adopt IEBC
ECON-b-3	Moderate	Building Dept	posted on website
ECON-b-4	Existing	Cupertino OES	Report on ABAG website
ECON-b-5	NYC		Waiting for more guidance
ECON-b-6	NYC		Waiting for more guidance
ECON-b-7	NYC		Waiting for more guidance
ECON-b-8	Moderate	Building Dept	
ECON-b-9	Existing	Building Dept	Upon request
ECON-c-1	n/a	No URM in Cupertino	
ECON-c-2	n/a	No URM in Cupertino	
ECON-c-3	n/a	No URM in Cupertino	
ECON-c-4	n/a	No URM in Cupertino	
ECON-d-1	Existing	Building Dept	Inventory taken in 1989 after Loma Prieta. Only one new tilt up since then.
ECON-d-2	NYC		Mandatory adoption Jan 1, 2011 of the 2010 California Building Code. Not mandated to adopt IEBC
ECON-d-3	Existing Underfunded	Building Dept	Technical assistance upon request.
ECON-e-1	Existing	Building Dept	Chapter 7A California Building Code, 16.40.460 fire ordinance
ECON-e-2	Existing Underfunded	Santa Clara County Fire Dept	Offer an annual workshop. Send information to target hazard residents and offer courtesy inspections of property.
ECON-e-3	n/a		
ECON-e-4	Existing	Building Dept	
ECON-e-5	Existing	Building Dept	Bldg Code
ECON-e-6	Existing Underfunded	Santa Clara County Fire Dept	Offer an annual workshop. Send information to target hazard residents and offer courtesy inspections of property.
ECON-e-7	n/a		
ECON-e-8	n/a		
ECON-e-9	n/a		
ECON-e-10	Existing	County Fire	
ECON-e-11	Moderate	Building Dept	
ECON-e-12	n/a	County Fire and Santa Clara County	
ECON-e-13	NYC		Waiting for more guidance
ECON-f-1	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-2	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-3	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-4	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-5	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-6	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18

ECON-f-7	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-8	Moderate	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-f-9	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-g-1	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-g-2	Existing Underfunded	Building Dept	
ECON-h-1	Existing	Building Dept	
ECON-h-2	Existing	Building Dept	training every Tuesday
ECON-h-3	NYC	Public Works	Waiting for more guidance
ECON-i-1	Existing	Building Dept	MOUs as requested
ECON-i-2	Existing Underfunded	Building Dept	
ECON-i-3	Existing Underfunded	Building Dept / Cupertino OES	
ECON-i-4	Existing Underfunded	Building Dept	
ECON-i-5	Existing	Building Dept	
ECON-i-6	Existing Underfunded	Building Dept	
ECON-j-1	Existing	Cupertino OES	
ECON-j-2	Existing	Cupertino OES	
ECON-j-3	Existing	Cupertino OES	
ECON-j-4	Existing	Cupertino OES	
ECON-j-5	Existing	Cupertino OES	Lack of staff to make this program effective
ECON-j-6	n/a		
ECON-j-7	Existing	Cupertino OES	
ECON-j-8	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ECON-j-9	n/a		
ECON-j-10	n/a		
ECON-j-11	n/a		
ECON-j-12	n/a		
ECON-j-13	Existing	Cupertino OES	
EDUC-a-1	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-a-2	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-a-3	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-a-4	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-a-5	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-a-6	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-b-1	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-b-2	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and

EDUC-b-3	n/a		FUHSD strategies for their priorities. Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-1	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-2	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-3	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-4	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-5	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-6	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-c-7	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-d-1	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
EDUC-d-2	n/a		Not applicable for a city. CUSD and FUHSD working with the city on these strategies. See CUSD and FUHSD strategies for their priorities.
ENVI-a-1	Existing	Environmental Programs, Public Works, Community Development	
ENVI-a-2	Existing	Environmental Programs, Emergency Services	
ENVI-a-3	High	Environmental Programs, Environmental Affairs, Community Development	2005 General Plan includes Sustainability Section outlining methods to achieve these goals. The city is seeking funding (\$200k) to develop a Sustainable Land Use Plan and Green Building Policy that would expand these land-use based mitigation strategies.
ENVI-a-4	NYC	Environmental Programs	
ENVI-a-5	NYC	Environmental Programs	
ENVI-a-6	Existing	Public Works / Environmental Programs	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ENVI-a-7	Existing	Public Works / Environmental Programs	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ENVI-a-8	Existing	Public Works / Environmental Programs	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18

ENVI-a-9	Existing	Environmental Programs	
ENVI-a-10	Existing	Environmental Programs	
ENVI-a-11	Existing	Building Department / Public Works	
ENVI-a-12	Existing Underfunded	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ENVI-a-13	Existing Underfunded	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
ENVI-b-1	Existing	Environmental Affairs, Public Works	
ENVI-b-2	Existing	Environmental Affairs	Completion date: November 2009
ENVI-b-3	Existing Underfunded	Environmental Affairs, Community Development Department	2005 General Plan includes Sustainability Section outlining methods to achieve these goals. The city is seeking funding (\$200k) to develop a Sustainable Land Use Plan and Green Building Policy that would expand these land-use based mitigation strategies.
ENVI-b-4	Existing Underfunded	Environmental Affairs, Community Development Department, Public Works	In addition to the promotion of alternative means of transportation in the Sustainability Section in the city's 2005 General Plan, the city recently completed a \$13.7M Stevens Creek Restoration Park Project that included the addition of a trail between Blackberry Farm and McClellan Ranch and the construction of a \$14.8M bicycle pedestrian footbridge. Furthermore, the city's Bicycle and Pedestrian Commission is in the process of completing Cupertino's Bicycle Transportation Plan while the city is exploring projects to promote alternative commutes through the purchase of EcoPasses and creation of a bicycle fleet.
ENVI-b-5	High	Environmental Affairs, Public Works	The City is in the process of reviewing renewable energy technologies as part of an energy savings performance contract or through a power purchase agreement. The City is not considering the purchase of "green tags" to offset its power consumption.
ENVI-b-6	Existing Underfunded	Environmental Affairs, Public Works	The city is currently conducting a detailed energy audit and will be considering an energy savings performance contract to implement city-wide energy and water conservation measures. The scope of the proposed project under review is between \$3 - \$10M. The city has retrofitted lighting throughout all its facilities and has replaced its exit signs and traffic signals with LEDs.
ENVI-b-7	Existing Underfunded	Environmental Affairs, IT	Currently part of the city's Environmentally Preferred Procurement Policy.
ENVI-b-8	Existing Underfunded	Community Development Department, Environmental Affairs	The City participated in the Santa Clara County Cities Association-convened Green Building Collaborative. The City has adopted its Phase I Recommendations, which apply to large commercial projects and municipal facilities. The city currently offers funds to cover the cost of LEED and GPR certification. The city is pursuing funding to hold a public process to review a more stringent green building policy.
ENVI-b-9	High	Public Works, Environmental Affairs	The city applied for funds to expand its current efforts through the BAAQMD and will likely apply under the TFCA to purchase hybrid electric aerial boom truck. Prior to recall, the city owned RAV-4 Evs. The city does operate four hybrid passenger vehicles. To replace existing vehicles with alternatives the city estimates that

ENVI-b-10	Under Study	Public Works, Environmental Affairs	it would need around \$1M. This falls under the scope of the city's detailed energy audit.
ENVI-b-11	Very High		
ENVI-b-12	Very High		Environmental Affairs, Public Works
ENVI-b-13	Very High		Environmental Affairs
ENVI-c-1	n/a		
ENVI-c-2	n/a		
ENVI-c-3	n/a		
GOVT-a-1	Existing Underfunded	Public Works	
GOVT-a-2	Existing Underfunded	Public Works	
GOVT-a-3	NYC	Building Dept	
GOVT-a-4	Very High	Public Works, IT	
GOVT-a-5	Existing		Informal meetings take place between Public Works, Sheriff's Office and Code Enforcement
GOVT-a-6	Existing	Public Works	
GOVT-a-7	Moderate	Public Works	
GOVT-a-8	n/a	Santa Clara Valley Water District	
GOVT-a-9	Moderate	Public Works	
GOVT-a-10	Existing	Building Dept / County Fire	Public Works will go out with consultants and then bring plans to Building Dept and Fire Dept for review
GOVT-a-11	Existing	Building Dept / County Fire	
GOVT-a-12	Existing	Public Works	
GOVT-a-13	Existing	Public Works, Building Dept and County Fire	
GOVT-b-1	Existing	Cupertino OES	
GOVT-b-2	Existing Underfunded	Cupertino OES	
GOVT-b-3	Existing	Cupertino OES	
GOVT-b-4	Existing Underfunded	Cupertino OES	
GOVT-b-5	Existing Underfunded	Cupertino OES	
GOVT-c-1	Existing	Cupertino OES	
GOVT-c-2	Existing	Cupertino OES	
GOVT-c-3	Existing	Cupertino OES	
GOVT-c-4	n/a	County Fire, County Sheriff	First responders are not run by the City
GOVT-c-5	Existing	Cupertino OES	
GOVT-c-6	n/a	County Fire, County Sheriff	First responders are not run by the City
GOVT-c-7	Existing Underfunded	Cupertino OES, County Fire, County Sheriff	
GOVT-c-8	Existing	County Communications, Cupertino OES	
GOVT-c-9	Existing Underfunded	Cupertino OES	
GOVT-c-10	Existing	Cupertino OES	
GOVT-c-11	Existing	Cupertino OES	

GOVT-c-12	Existing	Cupertino OES	
GOVT-c-13	Existing	Cupertino OES, County Fire, County Sheriff	
GOVT-c-14	Existing	Public Information	
GOVT-c-15	Existing	Public Information	
GOVT-c-16	Existing	Building Dept / County Fire	
GOVT-c-17	Existing	County Fire	
GOVT-c-18	n/a		
GOVT-c-19	Existing Underfunded	County Fire	
GOVT-c-20	Existing	Santa clara Valley Water District	
GOVT-c-21	n/a	County Fire	
GOVT-c-22	Existing	County Sheriff, Cupertino OES	
GOVT-c-23	Existing	County Sheriff, Cupertino OES	
GOVT-c-24	n/a		
GOVT-c-25	Existing	Cupertino OES	
GOVT-d-1	Existing	Cupertino OES	
GOVT-d-2	Existing	Cupertino OES	
GOVT-d-3	Very High	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
GOVT-d-4	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
GOVT-d-5	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
GOVT-d-6	Existing	County Fire	
GOVT-d-7	Existing	County Fire	
GOVT-d-8	Existing	Building Dept	Member CALBO, ICC
GOVT-d-9	Existing Underfunded	Cupertino OES	
GOVT-d-10	Existing	Building Dept	
GOVT-e-1	n/a		
GOVT-e-2	n/a		
HEAL-a-1	n/a		None in jurisdiction
HEAL-a-2	n/a		None in jurisdiction
HEAL-a-3	n/a		None in jurisdiction
HEAL-a-4	n/a		None in jurisdiction
HEAL-a-5	n/a		None in jurisdiction
HEAL-a-6	n/a		None in jurisdiction
HEAL-a-7	n/a		None in jurisdiction
HEAL-b-1	Existing Underfunded	Cupertino OES	
HEAL-b-2	Existing Underfunded	Cupertino OES	
HEAL-b-3	Existing Underfunded	Cupertino OES	Clinic has MOU with Cupertino Amateur Radio Emergency Service, Member of Medical Reserve Corps
HEAL-c-1	n/a	County Health	
HEAL-c-2	Existing	Cupertino OES, San Jose Office of Emergency Services, San Jose Fire Department	
HEAL-c-3	Existing	Cupertino OES,	

		Federal asset that must be requested via government office.	
HEAL-c-4	Existing	Santa Clara County Fire Dept	
HEAL-c-5	n/a	County Environmental Health	
HEAL-c-6	Existing Underfunded	County Mental Health	
HSNG-a-1	NYC		Information posted on Cupertino website. No direct contact with realtors unless they initiate.
HSNG-a-2	Existing		Calif Historic Building Code Title 24 Part 8
HSNG-a-3	Existing	Cupertino OES, Parks & Recreation	
HSNG-a-4	Under Study	CPGP	
HSNG-b-1	Existing	Building Dept	Use plans from Simpson Strong Tie
HSNG-b-2	Existing	Building Dept	Cupertino General Plan
HSNG-b-3	Existing		California Bldg Code
HSNG-b-4	Existing	Building Dept	Going to CALBO this year
HSNG-b-5	Existing	Building Dept	Flyers posted in lobby
HSNG-b-6	Existing	Building Dept / Cupertino OES	1 hour video on safety assessment and structural mitigation on website, non-structural taught in CERT and Kaleidoscope
HSNG-b-7	Existing	Building Dept / Cupertino OES	1 hour video on safety assessment and structural mitigation on website
HSNG-b-8	NYC	Building Dept	Liability concerns
HSNG-b-9	NYC	Building Dept	Willing to consider if economy picks up
HSNG-c-1	Existing	Building Dept	California Building Code
HSNG-c-2	NYC	Building Dept	Mandatory adoption Jan 1, 2011 of the 2010 California Building Code. Not mandated to adopt IEBC
HSNG-c-3	Existing	Cupertino OES	On Cupertino Website
HSNG-c-4	Existing	Cupertino OES	Report on ABAG website
HSNG-c-5	NYC	Building Dept	Waiting for more guidance
HSNG-c-6	NYC	Building Dept	Waiting for more guidance
HSNG-c-7	NYC	Building Dept	Would like more details
HSNG-c-8	n/a		
HSNG-c-9	Existing	Building Dept	No formal program but do work with individuals on request.
HSNG-d-1	n/a	No URM in City	
HSNG-d-2	n/a	No URM in City	
HSNG-d-3	n/a	No URM in City	
HSNG-d-4	n/a	No URM in City	
HSNG-e-1	n/a	No mobile homes in City	
HSNG-e-2	n/a	Building Dept	No tilt-up, or concrete residential buildings
HSNG-e-3	NYC		Mandatory adoption Jan 1, 2011 of the 2010 California Building Code. Not mandated to adopt IEBC
HSNG-e-4	Existing Underfunded	Building Dept	Technical assistance upon request.
HSNG-f-1	Existing	Building Dept	

HSNG-f-2	Existing	Building Dept	
HSNG-g-1	Existing	Building Dept. Santa Clara County Fire Dept.	CBC 7A, Cupertino Municipal Code 16.40.460 and 16.74
HSNG-g-2	Existing	Santa Clara County Fire Dept	Offer an annual workshop. Send information to target hazard residents and offer courtesy inspections of property.
HSNG-g-3	Existing	Building Dept. Santa Clara County Fire Dept.	CBC 7A, Cupertino Municipal Code 16.40.460 and 16.74
HSNG-g-4	Moderate	Santa Clara County Fire	
HSNG-g-5	Existing	Building Dept. Santa Clara County Fire Dept.	CBC 7A, Cupertino Municipal Code 16.40.460 and 16.74
HSNG-g-6	Existing	Building Dept.	Cupertino Municipal Code 16.04, 16.40, 16.70, 16.74
HSNG-g-7	Existing	Building Dept.	CBC 907.2.10.5, Cupertino Municipal Code 16.40.210, 16.40.550
HSNG-g-8	Existing	Santa Clara County Fire Dept., Cal Water	Cupertino Municipal Code 16.40.500
HSNG-g-9	Existing	Santa Clara County Fire Dept.	Cupertino Municipal Code 16.40.480
HSNG-g-10	Existing	Santa Clara County Fire Dept.	Cupertino Municipal Code 16.40.480, 16.40.560, 9.08
HSNG-g-11	Existing	Santa Clara County Fire Dept.	Cupertino Municipal Code 16.40.490
HSNG-g-12	Existing	Santa Clara County Fire Dept.	Cupertino Municipal Code 16.40.550
HSNG-g-13	Existing	Santa Clara County Fire Dept.	Cupertino Municipal Code 16.40.550
HSNG-g-14	Existing	Santa Clara County Fire Dept., Building Dept.	CBC, CFC, Cupertino Municipal Code 16.40.210, 16.40.550
HSNG-g-15	n/a		Not aware of any buildings fitting this description.
HSNG-g-16	Existing	Santa Clara County Fire Dept.	Conducts annual inspections
HSNG-g-17	Existing Underfunded	Building Dept	
HSNG-g-18	Existing	Building Dept.	CPC 508.2, CBC Chapter 34
HSNG-g-19	Moderate	Building Dept	
HSNG-g-20	n/a		
HSNG-h-1	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-2	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-3	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-4	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-5	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-6	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-7	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-8	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-9	Moderate	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-h-10	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-i-1	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
HSNG-i-2	Existing Underfunded	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18

HSNG-j-1	Existing	Building Dept	
HSNG-j-2	Existing Underfunded	Building Dept	
HSNG-k-1	Existing	Cupertino OES	
HSNG-k-2	Existing	Cupertino OES	
HSNG-k-3	Existing	Cupertino OES	
HSNG-k-4	NYC		
HSNG-k-5	Existing	Cupertino OES	
HSNG-k-6	Existing Underfunded	Cupertino OES	
HSNG-k-7	Existing Underfunded	Cupertino OES / Public Works	Just in time training available
HSNG-k-8	Existing	Cupertino Neighborhood Watch and Block Leader Programs	
HSNG-k-9	Existing Underfunded		
HSNG-k-10	Existing	Cupertino OES	
HSNG-k-11	Under Study	Cupertino Public Information Officer	Completing evaluation of models before making recommendations to residents. Due 12/31/09
HSNG-k-12	Existing	Cupertino OES	
HSNG-k-13	Existing	Cupertino OES	
HSNG-k-14	Existing Underfunded	Santa Clara County Fire Dept	Offer an annual workshop. Send information to target hazard residents and offer courtesy inspections of property.
HSNG-k-15	n/a	No Shoreline	
HSNG-k-16	Existing	Cupertino OES	
INFR-a-1	n/a		Don't own any infrastructure. Provided by County or contracted out.
INFR-a-2	n/a	Santa Clara Valley Water District	
INFR-a-3	Existing	Cupertino OES	all members of Cupertino Disaster Council
INFR-a-4	n/a		Don't own any
INFR-a-5	Existing	Bldg Dept	
INFR-a-6	n/a		Don't own any
INFR-a-7	Existing	Building Dept	
INFR-a-8	Existing	Public Works	
INFR-a-9	Moderate	Public Works	Use law enforcement to control intersections during evacuation
INFR-a-10	Existing	Public Works	
INFR-a-11	Existing	Public Works	
INFR-a-12	Existing	Public Works	14.20, 14.24 Cupertino Muni Code
INFR-a-13	n/a		Do not own dam
INFR-a-14	Existing	Cupertino OES	
INFR-a-15	Existing	Cupertino OES / County Fire	Have Medical Reserve Corps, Emergency Clinic, Lifeflight, Military air support
INFR-a-16	Existing	Public Information, Parks and Recreation	
INFR-a-17	n/a		MTC Only
INFR-a-18	Under Study	Santa Clara County Social Services	Plan under development
INFR-a-19	Existing	Cupertino OES	

INFR-a-20	n/a		Private arrangements
INFR-a-21	n/a		Privately owned
INFR-a-22	Existing	Building Department	
INFR-b-1	Existing	Underfunded Public Works	
INFR-b-2	n/a		
INFR-b-3	Existing	Public Works	
INFR-b-4	n/a		Privately owned
INFR-b-5	n/a		Privately owned
INFR-b-6	n/a		Privately owned
INFR-b-7	n/a		
INFR-b-8	Existing	Building Department and County Fire	
INFR-b-9	Under Study	Public Works	
INFR-b-10	n/a		
INFR-c-1	Existing	Santa Clara County Fire / Cal Water	
INFR-c-2	Existing	Santa Clara County Fire	
INFR-c-3	Existing	Santa Clara County Fire and Building Dept	9.08 & 16.40.460 Cupertino Muni Code
INFR-c-4	Existing	Santa Clara County Fire Dept	
INFR-c-5	Existing	Santa Clara County Fire Dept	16.40 Cupertino Muni Code
INFR-c-6	Existing	Santa Clara County Fire Dept	16.40 Cupertino Muni Code
INFR-c-7	Existing	Santa Clara County Fire Dept	16.40 Cupertino Muni Code
INFR-c-8	Existing	Santa Clara County Fire Dept	16.40 Cupertino Muni Code
INFR-d-1	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-2	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-3	Existing	Underfunded Public Works	
INFR-d-4	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-5	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-6	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-7	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-8	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-9	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-10	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-11	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-12	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-13	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-14	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-15	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-16	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-17	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-d-18	Existing	Underfunded Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
INFR-e-1	Existing	Public Works	

INFR-e-2	Existing	Building Dept	
INFR-f-1	Existing	Building Dept	
INFR-g-1	Existing	Cupertino OES	
INFR-g-2	Existing	Cupertino OES	
INFR-g-3	Existing	Cupertino OES	
INFR-g-4	Existing	Cupertino OES	
INFR-g-5	Existing	Cupertino OES	
INFR-g-6	Existing	Cupertino OES	
INFR-g-7	Existing	Cupertino OES	
LAND-a-1	Existing	Building Dept / Public Works	General Plan 6-2 and CBC Chapter 1802, Cupertino Municipal Code (CMC) Chapter 16.04
LAND-a-2	Existing	Building Dept / Public Works	General Plan 6-2 and CBC Chapter 1802, Cupertino Municipal Code (CMC) Chapter 16.04
LAND-a-3	Existing	Building Dept / Public Works	General Plan 6-2 and CBC Chapter 1802, Cupertino Municipal Code (CMC) Chapter 16.04
LAND-a-4	Existing	Building Dept	Contract consultants review and provide recommendations
LAND-a-5	n/a	Building Dept	Waiting for more guidance
LAND-a-6	Existing	Building Dept	General Plan Reso 05-194, 05-195
LAND-a-7	Existing	Building Dept	
LAND-a-8	Existing	Building Dept	Consultants on contract to perform
LAND-b-1	Existing	Santa Clara County Fire	16.40.460-16.40.560, 16.74 Cupertino Muni Code
LAND-b-2	Existing	Santa Clara County Fire	16.40.460-16.40.560, 16.74 Cupertino Muni Code
LAND-c-1	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-c-2	Existing	Public Works / Cupertino OES	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-c-3	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-c-4	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-c-5	Very High	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-c-6	Very High	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-d-1	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-d-2	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.52, 9.18
LAND-d-3	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.08,16.52, 9.18
LAND-d-4	Existing	Public Works	Cupertino Municipal Code (CMC) Chapters 16.08,16.52, 9.18, 9.18, 9.19
LAND-d-5	Existing	Public Works	Reso 05-194, 05-195, CMC Chapters 16.52, 9.18
LAND-e-1	Existing	Building Dept / Public Works	Cupertino Municipal Code (CMC) Chapters 16.40, 16.52, 9.18
LAND-e-2	Existing	Building Dept / Public Works	Cupertino Municipal Code (CMC) Chapters 16.40.480, 16.52, 9.18
LAND-f-1	n/a		No urban areas
LAND-f-2	n/a		No urban areas
LAND-f-3	n/a		No downtown
LAND-f-4	Moderate	Building Dept	Majority of land purchased or built out in the flood area years ago
LAND-f-5	n/a	Building Dept	No major industry or hazmat
LAND-g-1	Moderate	Building Dept	Cupertino Municipal Code (CMC) Title 16

Source: Association of Bay Area Governments, 2009.

11.7.2 Cupertino Attachment 2: Cupertino Exposure Analysis

This list includes all information on Cupertino's critical facilities and identifies which of the City's critical facilities are located in the mapped hazard areas.

ID	Critical Facility	Address	Type	Occupancy	Own/Lease	Structure Type
1	Water Tank	MERCEDES RD (end)	Utility	N/A	own	Water storage tank (steel anchored on ground)
2	Blackberry Retreat Center	21975 SAN FERNANDO AVE	EOC	30	own	Light wood-frame building <= 5,000 SQFT
3	Monta Vista Classroom	22601 VOSS AVENUE	Shelter	100	own	Light wood-frame building <= 5,000 SQFT
4	Monta Vista Rec Center	22601 VOSS AVENUE	Shelter	724	own	Wood-frame building > 5,000 SQFT
5	Water Tank	RANCHO SAN ANTONIO CO PARK	Utility	N/A	own	Water storage tank (steel anchored on ground)
6	Svc Ctr - Grounds Shop	10555 MARY AVENUE	Response/Recovery Ops	10	own	Light metal frame
7	Svc Ctr - Mechanic Shop	10555 MARY AVENUE	Response/Recovery Ops	2	own	Light metal frame
8	Svc Ctr - Admin	10555 MARY AVENUE	Response/Recovery Ops	40	own	Wood-frame building > 5,000 SQFT
9	Svc Ctr - Fuel Island	10555 MARY AVENUE	Response/Recovery Ops	N/A	own	Steel moment-resisting frame
10	Svc Ctr - Hazmat Storage	10555 MARY AVENUE	Response/Recovery Ops	N/A	own	Light metal frame
11	Svc Ctr - Welding Shop	10555 MARY AVENUE	Response/Recovery Ops	2	own	Light metal frame
12	Sports Center	21111 STEVENS CREEK	Shelter	500	own	Tilt-up construction
13	Senior Center	21251 STEVENS CREEK	Shelter	536	own	Wood-frame building > 5,000 SQFT
14	Community Hall	10350 Torre Avenue	Shelter	N/A	N/A	N/A
15	Library	10800 Torre Avenue	Cultural Value	N/A	N/A	N/A
16	Pumping Station	10450 MANN DRIVE	Utility	N/A	own	Water pumping plant/station
17	Water Tank	10450 MANN DRIVE	Utility	N/A	own	Water storage tank (steel anchored on ground)
18	Stockelmeir	22120 Stevens Creek Blvd	Historic Structure	N/A	N/A	N/A
19	Tank House	Next to Blue Pheasant	Historic Structure	N/A	N/A	N/A
20	Well #3	Flowering Peard Dr & Cedarbrook	Utility	N/A	own	Water Well
21	Well #2	HOMESTEAD RD & FRANCO CT	Utility	N/A	own	Water Well
22	Quinlan Community Center	10185 N. STELLING RD	Shelter	1000	own	Wood-frame building > 5,000 SQFT
23	Svc Ctr - Equipment Storage	10555 MARY AVENUE	Response/Recovery Ops	N/A	own	Light metal frame
24	City Hall	10300 TORRE AVENUE	EOC	300	own	Reinforced concrete with wood frame above
ID	Critical Facility	Structure Information	Irregularities-Plan View	Irregularities-Vertical	Structural Assessment	Retrofit
1	Water Tank	N/A	Regular	N/A	N/A	N/A
2	Blackberry Retreat Center	N/A	Irregular	Regular	N/A	N/A
3	Monta Vista Classroom	N/A	Regular	Regular	N/A	N/A
4	Monta Vista Rec Center	N/A	Regular	Regular	N/A	N/A
5	Water Tank	N/A	Regular	N/A	N/A	N/A
6	Svc Ctr - Grounds Shop	N/A	Regular	Regular	N/A	N/A
7	Svc Ctr - Mechanic Shop	N/A	Regular	Regular	N/A	N/A
8	Svc Ctr - Admin	Tilt-up construction, 50% of bldg is warehouse	Regular	Regular	N/A	N/A
9	Svc Ctr - Fuel Island	N/A	Regular	Regular	N/A	N/A
10	Svc Ctr - Hazmat Storage	N/A	Regular	Regular	N/A	N/A
11	Svc Ctr - Welding Shop	N/A	Regular	Regular	N/A	N/A
12	Sports Center	N/A	Regular	Regular	N/A	2004
13	Senior Center	N/A	Irregular	Regular	N/A	N/A
14	Community Hall	N/A	N/A	N/A	No	No
15	Library	N/A	N/A	N/A	No	No
16	Pumping Station	N/A	N/A	N/A	N/A	N/A
17	Water Tank	N/A	N/A	N/A	N/A	N/A
18	Stockelmeir	N/A	N/A	N/A	No	No
19	Tank House	N/A	N/A	N/A	No	No
20	Well #3	N/A	N/A	N/A	N/A	N/A
21	Well #2	N/A	N/A	N/A	N/A	N/A

ID	Critical Facility	Structure Information	Irregularities-Plan View	Irregularities-Vertical	Structural Assessment	Retrofit
22	Quinlan Community Center	N/A	Irregular	Regular	N/A	N/A
23	Svc Ctr - Equipment Storage	N/A	Regular	Regular	N/A	N/A
24	City Hall	N/A	Regular	Regular	N/A	1986
ID	Critical Facility	Anchored Equipment	Alternate Power	Sprinklers	Roof Material	Year Built
1	Water Tank	Yes	N/A	N/A	N/A	1969
2	Blackberry Retreat Center	Yes	No	No	Composition Shingle	1965
3	Monta Vista Classroom	Yes	No	N/A	Gravel & Tar	1960
4	Monta Vista Rec Center	Yes	No	N/A	Gravel & Tar	1960
5	Water Tank	Yes	N/A	N/A	N/A	2000
6	Svc Ctr - Grounds Shop	Yes	Yes	Yes	Gravel & Tar	1970
7	Svc Ctr - Mechanic Shop	Yes	Yes	Yes	Gravel & Tar	1970
8	Svc Ctr - Admin	Yes	Yes	Yes	Gravel & Tar	1976
9	Svc Ctr - Fuel Island	Yes	Yes	Yes	Gravel & Tar	1986
10	Svc Ctr - Hazmat Storage	Yes	Yes	Yes	Gravel & Tar	1980
11	Svc Ctr - Welding Shop	Yes	Yes	Yes	Gravel & Tar	1990
12	Sports Center	Yes	No	Yes	Gravel & Tar	1970
13	Senior Center	Yes	No	Yes	Tile	2000
14	Community Hall	N/A	N/A	N/A	N/A	N/A
15	Library	N/A	N/A	N/A	N/A	N/A
16	Pumping Station	Yes	N/A	No	NA	N/A
17	Water Tank	Yes	N/A	No	NA	1978
18	Stockelmeir	N/A	N/A	N/A	N/A	N/A
19	Tank House	N/A	N/A	N/A	N/A	N/A
20	Well #3	Yes	N/A	N/A	NA	N/A
21	Well #2	Yes	N/A	N/A	NA	N/A
22	Quinlan Community Center	Yes	No	Yes	Tile/Gravel & Tar	1990
23	Svc Ctr - Equipment Storage	Yes	Yes	Yes	Gravel & Tar	1980
24	City Hall	Yes	Yes	Yes	Tile/Gravel & Tar	1965
ID	Critical Facility	Stories	Capacity	Bldg Insured Value	Contents Insured Value	
1	Water Tank	1	2000000			
2	Blackberry Retreat Center	1	N/A	704865		
3	Monta Vista Classroom	1	N/A			
4	Monta Vista Rec Center	1	N/A	3625015	246774	
5	Water Tank	1	N/A			
6	Svc Ctr - Grounds Shop	1	N/A			
7	Svc Ctr - Mechanic Shop	1	N/A	958949	258467	
8	Svc Ctr - Admin	1	N/A	1619524	224402	
9	Svc Ctr - Fuel Island	1	N/A			
10	Svc Ctr - Hazmat Storage	1	N/A			
11	Svc Ctr - Welding Shop	1	N/A			
12	Sports Center	2	N/A	3939790	257603	
13	Senior Center	1	N/A	4788087	406843	
14	Community Hall	0	N/A	0	0	
16	Pumping Station	0	N/A			
17	Water Tank	1	187000			
18	Stockelmeir	0	N/A	0	0	

ID	Critical Facility	Stories	Capacity	Bldg Insured Value	Contents Insured Value	
19	Tank House	0	N/A	0	0	
20	Well #3	0	N/A			
21	Well #2	0	N/A			
22	Quinlan Community Center	2	N/A	7838469	388427	
23	Svc Ctr - Equipment Storage	1	N/A			
24	City Hall	1	N/A	6000775	1996052	

ID	Critical Facility	# of Dams	Wildland-Urban Interface (WUI) Fire Threat	Wildfire Threat	FEMA Flood Zone	Tsunami
1	Water Tank	0	Fire-Threatened Area	Moderate	500 Year Flood	Not Affected
2	Blackberry Retreat Center	1	Fire-Threatened Area	Moderate	Undetermined	Not Affected
3	Monta Vista Classroom	0	Fire-Threatened Area	Moderate	500 Year Flood	Not Affected
4	Monta Vista Rec Center	0	Fire-Threatened Area	Moderate	500 Year Flood	Not Affected
5	Water Tank	0	Outside WUI hazard area	Little/No	Undetermined	Not Affected
6	Svc Ctr - Grounds Shop	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
7	Svc Ctr - Mechanic Shop	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
8	Svc Ctr - Admin	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
9	Svc Ctr - Fuel Island	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
10	Svc Ctr - Hazmat Storage	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
11	Svc Ctr - Welding Shop	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
12	Sports Center	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
13	Senior Center	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
14	Community Hall	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
15	Library	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
16	Pumping Station	0	Outside WUI hazard area	Moderate	Undetermined	Not Affected
17	Water Tank	0	Outside WUI hazard area	Moderate	Undetermined	Not Affected
18	Stockelmeir	0	Fire-Threatened Area	Moderate	100 Year Flood	Not Affected
19	Tank House	1	Fire-Threatened Area	Moderate	Undetermined	Not Affected
20	Well #3	1	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
21	Well #2	1	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
22	Quinlan Community Center	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
23	Svc Ctr - Equipment Storage	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected
24	City Hall	0	Outside WUI hazard area	Moderate	500 Year Flood	Not Affected

ID	Critical Facility	Existing Landslide Areas	EQ-Induced Landslide	EQ Shake Potential	Liquefaction Susceptibility	EQ-Induced Liquefaction
1	Water Tank	Surficial Deposits	Outside of CGS Landslide Zone	75	Moderate	Outside of CGS Liquefaction Zone
2	Blackberry Retreat Center	Surficial Deposits	Outside of CGS Landslide Zone	75	Low	Outside of CGS Liquefaction Zone
3	Monta Vista Classroom	Surficial Deposits	Outside of CGS Landslide Zone	75	Very Low	Outside of CGS Liquefaction Zone
4	Monta Vista Rec Center	Surficial Deposits	Outside of CGS Landslide Zone	75	Very Low	Outside of CGS Liquefaction Zone
5	Water Tank	Few Landslides	Outside of CGS Landslide Zone	65	Very Low	Outside of CGS Liquefaction Zone
6	Svc Ctr - Grounds Shop	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
7	Svc Ctr - Mechanic Shop	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
8	Svc Ctr - Admin	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
9	Svc Ctr - Fuel Island	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
10	Svc Ctr - Hazmat Storage	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
11	Svc Ctr - Welding Shop	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
12	Sports Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
13	Senior Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone

ID	Critical Facility	Existing Landslide Areas	EQ-Induced Landslide	EQ Shake Potential	Liquefaction Susceptibility	EQ-Induced Liquefaction
14	Community Hall	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
15	Library	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
16	Pumping Station	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
17	Water Tank	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
18	Stockelmeir	Surficial Deposits	Outside of CGS Landslide Zone	65	Very High	Liquefaction Hazard Zone
19	Tank House	Surficial Deposits	Outside of CGS Landslide Zone	65	Moderate	Liquefaction Hazard Zone
20	Well #3	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
21	Well #2	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
22	Quinlan Community Center	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
23	Svc Ctr - Equipment Storage	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
24	City Hall	Surficial Deposits	Outside of CGS Landslide Zone	65	Low	Outside of CGS Liquefaction Zone
ID	Critical Facility	Sea Level Risk 16"	Sea Level Rise 55"			
1	Water Tank	Not Affected	Not Affected			
2	Blackberry Retreat Center	Not Affected	Not Affected			
3	Monta Vista Classroom	Not Affected	Not Affected			
4	Monta Vista Rec Center	Not Affected	Not Affected			
5	Water Tank	Not Affected	Not Affected			
6	Svc Ctr - Grounds Shop	Not Affected	Not Affected			
7	Svc Ctr - Mechanic Shop	Not Affected	Not Affected			
8	Svc Ctr - Admin	Not Affected	Not Affected			
9	Svc Ctr - Fuel Island	Not Affected	Not Affected			
10	Svc Ctr - Hazmat Storage	Not Affected	Not Affected			
11	Svc Ctr - Welding Shop	Not Affected	Not Affected			
12	Sports Center	Not Affected	Not Affected			
13	Senior Center	Not Affected	Not Affected			
14	Community Hall	Not Affected	Not Affected			
15	Library	Not Affected	Not Affected			
16	Pumping Station	Not Affected	Not Affected			
17	Water Tank	Not Affected	Not Affected			
18	Stockelmeir	Not Affected	Not Affected			
19	Tank House	Not Affected	Not Affected			
20	Well #3	Not Affected	Not Affected			
21	Well #2	Not Affected	Not Affected			
22	Quinlan Community Center	Not Affected	Not Affected			
23	Svc Ctr - Equipment Storage	Not Affected	Not Affected			
24	City Hall	Not Affected	Not Affected			