

## Contents

Section 10	City of Carpinteria .....	10-2
10.1	Introduction.....	10-2
10.2	Internal Planning Process .....	10-2
10.2.1	City Local Planning Team Meetings and Outcomes.....	10-2
10.2.2	Public Involvement .....	10-3
10.3	Capability Assessment.....	10-11
10.3.1	Key Departments.....	10-11
10.3.2	Administrative and Technical Capacity .....	10-15
10.3.3	Legal and Regulatory Capabilities .....	10-15
10.3.4	Fiscal Resources.....	10-16
10.3.5	Relevant Plans, Policies, and Ordinances .....	10-17
10.4	Hazard Assessment.....	10-25
10.4.1	Previous Occurrences.....	10-25
10.4.2	Hazard Identification and Ranking .....	10-34
10.5	Vulnerability Assessment .....	10-36
10.5.1	Critical Facilities and Flood Vulnerability.....	10-38
10.5.2	Wildfire Vulnerability .....	10-44
10.5.3	Earthquake Vulnerability .....	10-50
10.5.4	Landslide Vulnerability.....	10-55
10.5.5	Dam Failure Vulnerability .....	10-58
10.5.6	Tsunami Vulnerability .....	10-62
10.6	Mitigation Strategy .....	10-66
10.6.1	Mitigation Priorities .....	10-66
10.6.2	Mitigation Progress .....	10-67
10.6.3	Mitigation Approach .....	10-68
10.6.4	Implementation Plan .....	10-69
10.7	Plan Maintenance.....	10-82
10.7.1	Point of Contact .....	10-82
10.8	City of Carpinteria Appendix .....	10-83
10.8.1	Carpinteria Attachment 1: Meeting Documentation .....	10-83
10.8.2	Carpinteria Attachment 2: Outreach Materials .....	10-85
10.8.3	References.....	10-87

## SECTION 10 CITY OF CARPINTERIA

### 10.1 INTRODUCTION

The City of Carpinteria is a thriving business community, with proximity to strategic business centers and an idyllic seaside location. It is approximately 12 miles southeast of Santa Barbara and 80 miles from Los Angeles. It covers a land area of 2.6 square miles, and an ocean area of 4.7 miles. The City's average temperatures range from 45 to 72 degrees with more than 275 days of sunny weather per year. Average yearly rainfall is 17.9 inches. The industries employing the largest number of workers in the City are educational services, and health care and social assistance, followed by professional, scientific, management, and administrative and waste management services. Prominent service industries that support tourist activities include recreation and amusement, hotels and lodging, and local transportation services.

### 10.2 INTERNAL PLANNING PROCESS

Table 10-1 lists the City of Carpinteria Local Planning Team. These individuals collaborated to identify the City's critical facilities, provide relevant plans, report on progress of city mitigation actions and provide suggestions for new mitigation actions.

**Table 10-1 City of Carpinteria Local Planning Team 2011**

Name	Title
Jackie Campbell	Community Development Director
Matt Roberts	Director of Parks & Recreation
Kevin Silk	Assistant to the City Manager
Charlie Ebeling	Public Works Director
Dave Durlinger	City Manager
Julie Jeakle	Volunteer & Emergency Services Coordinator

#### 10.2.1 City Local Planning Team Meetings and Outcomes

The City of Carpinteria Local Planning Team (LPT) met regularly during the planning process to discuss data needs and organize data collection. A summary of these internal meetings is presented in the table below. Meeting documentation is included in Section 10.8, Carpinteria Attachment 1: Meeting Documentation.

**Table 10-2 City of Carpinteria Internal Collaboration Meetings Summary**

Meeting Dates	Summary of Discussions
12/17/2010	<p>We reviewed the Data Collection List with Dewberry consultant, Corinne Bartshire to gain an understanding of what Dewberry wanted to receive from the City's Hazard Mitigation team. We agreed to:</p> <ul style="list-style-type: none"> <li>• Supply the links to planning, zoning and geographic information from our City web site documents,</li> <li>• Scan and send documents such as Capital Improvement Plans and others,</li> <li>• Draft original documents relating to previous hazards, disaster assistance data, and repetitive loss documentation, and current mitigation efforts,</li> <li>• Provide additional self regulatory information pertinent to hazard mitigation.</li> </ul> <p>It was agreed that information prior to 1965 would not be submitted because Carpinteria was not incorporated until that year.</p> <p>It was agreed that National Flood Insurance Data, the number of community insurance policies will not be submitted, but repetitive property loss and the associated dollar amounts could be provided by Matt Roberts for the Beach Community area.</p> <p>Historical Preservation Plans will not be delivered; currently not applicable for Carpinteria.</p>
05/26/2011	Discussed with County OES the process for identifying critical facilities in Carpinteria. Discussed reviewed and commented on city specific annexes.
October 2011 – January 2012	City review and finalization of complete draft annex.
February 2012	Public Review Period of complete draft annex.

### 10.2.2 Public Involvement

In March 2011, an online survey was distributed county-wide to solicit public input regarding the concern for risk to natural hazard events and suggestions for how local government could minimize the risk. The City of Carpinteria made hard copy surveys available at City Hall and placed a link on the City website leading to the County Hazard Mitigation Survey webpage. Surveys were distributed to members of the Carpinteria Community Emergency Response Team (CERT), members of the Spanish language disaster training, *LISTOS*, and to those who attended *Don't Panic! Prepare* emergency preparedness workshops. A copy of the survey is included in County Appendix 3C.

#### ***Survey Results***

The City of Carpinteria distributed hard copies of the surveys at public meetings and throughout City Hall. The survey was available in both English and Spanish. In addition to gathering input regarding natural hazard risk and mitigation progress, the Mitigation Advisory Committee also used this survey to gauge the level of public preparedness for emergencies.

The survey respondents from Carpinteria identified earthquake, tsunami, flooding, and wildfire as the hazards of primary concern. This is consistent with the prioritizations determined by the County MAC and accepted by the City's Local Planning Team with the exception of the high concern for tsunami. The numerous responses for tsunami concern are likely due to the recent event originating off the coast of Japan and having minimal impacts along the coast of California. Future surveys will help to gauge the public perception of risk to tsunami. In the meantime, the City of Carpinteria recognizes that tsunami is a key topic for outreach and public education.

Several Carpinteria respondents indicated they have made improvements to their property to reduce risk of damage (refer to Question 3). 23 respondents have implemented and/or maintain defensible space around their properties to reduce damage from wildfires. 10 respondents have retrofitted their roof with fire-resistant materials. The results of the survey provide valuable information for the City of Carpinteria as they continue in their mitigation efforts. These responses may be used as a benchmark for future measurements of improvement. For example, the City may choose to focus on educational outreach about what homeowners and renters can do to reduce future damage from natural hazards. After this type of implementation, a similar survey may be administered to validate the progress and confirm that more residents have implemented mitigation practices.

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 21 below) will be considered for involvement in future mitigation planning discussions.

The City of Carpinteria will consider the recommendations provided by survey respondents (items 8 and 20 below) regarding how the local government and the County can help residents prepare for an event, throughout the life of this plan and prioritize those that can be implemented efficiently and effectively.

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

1. 85 out of 510 survey respondents were from the City of Carpinteria.
2. Respondents were asked which three hazards, out of the seven hazards the MAC identified, are of most concern to their neighborhood or home. Below are responses from residents of Carpinteria (in order of most responses):

Hazard	Number of Responses
Earthquake	72
Tsunami	50
Flooding (including coastal surge)	48
Wildfire	42
Additional Hazards*	18
Agriculture (pests and disease)	18
Landslide/Coastal Erosion	16
Dam Failure	7

*\*Respondents noted the following additional hazards: tornado, extended power outage, environmental pollution, gas leaks, oil rig explosion, chemical exposure, transportation of hazardous materials, pesticides, poor water quality, train incidents, Diablo Canyon Meltdown, high voltage wire, high pressure gas line.*

3. 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:

Property Mitigation	Number of Responses
Defensible space landscaping (clear vegetation around house to reduce wildfire risk)	23
Roof retrofit using fire resistant materials	10
Other*	8
Seismic retrofit of the structure and/or foundation	8
Installed backflow prevention device(s)	7
House elevation or first floor modification to prevent flood damage	6
Strengthened openings (Doors, windows, and/or garage door to reduce high-hazard wind risk)	5
Installation of fire sprinklers	5
Installation of fire hydrant or above ground water storage tank	1

*\*The responses to "Other" were: Hardie board siding, I am a renter, escape item (rope ladder).*

4. 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 Carpinteria respondents:

Item That Is Readily Available	Number of Responses
Can Opener	74
Flashlight (with batteries)	69
Cooking and eating utensils	65
Canned / Non-perishable Foods (ready to eat)	64
First Aid Kit/Supplies	61
Blanket(s)/ Sleeping Bag(s)	56
Extra Clothes and Shoes	55
Portable AM/FM Radio (solar powered, hand crank, or batteries)	52
Potable Water (3 gallons per person)	46
Gas grill / Camping stove	46
Extra Medications	40
Cash	37
Telephone (with batteries)	29
Pet Supplies	28
Important Family Photos/Documentation in a water and fire proof container	25
Gasoline	14

Item That Is Readily Available	Number of Responses
Handheld "Walkie-Talkie" Radios (with batteries)	13
What else do you have in your emergency kit?	13

\* Respondents noted the following additional items in their emergency kits: boots, rope, matches, gloves, eyeglasses, pens and paper, toilet paper, CERT pack, short wave radio, battery operated lanterns, playing cards, family valuables, plastic rafts, helmet, diapers, buckets to store water.

5. Respondents were asked if they have a plan for evacuating large animals and pets. Below is a summary of responses:
  - 21, or **27%** of respondents, answered that they **have a plan for evacuating their pets (cats, dogs, etc).**
  - 3, or **3.8%** of respondents, answered that they **have a plan for evacuating large animals (horses, cows, etc).**
  - 11, or **14%** of respondents, answered that **they have pets but have not planned for their evacuation.**
  - 1, or **1.3%** of respondents, answered that **they have large animals but have not planned for their evacuation.**
  - 44, or **56.4%** of respondents, answered that **they have no large animals or pets.**
  
6. Respondents were asked if they are familiar with the special needs of their neighbors in the event of a disaster situation. Below is a summary of responses:
  - 26, or **33.8%** of respondents, indicated that they **are familiar with the special needs of their neighbors.**
  - 51, or **66.2%** of respondents, indicated that they **are not** familiar with the special needs of their neighbors.
  - 8 respondents skipped this question.
  
7. Respondents were asked if they are a trained member of their Community Emergency Response Team (CERT). Below is a summary of responses:
  - 21, or **26.6 %** of respondents, indicated that **they are part of CERT.**
  - 34, or **43%** of respondents, indicated that **they are not a part of CERT, but would like to learn more about CERT.**
  - 24, or **30.4%** of respondents, indicated that **they are not interested in being a trained CERT.**
  - 6 respondents skipped this question.

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:

- Just heard about it at the presentation
- I want to help where I can
- I am in training
- To be prepared
- Haven't had the opportunity
- I would like to know more about CERT

8. Respondents were asked what the most important thing local government can do to help communities be more prepared for a disaster. Below is a summary of responses:

Things Local Government Can Do To Help Prepare	Number of Responses
Provide training and education to residents and business owners on how they can reduce future damage	59
Make a plan to use volunteer residents to help in a disaster	58
Community outreach regarding emergency preparedness	57
Disseminate effective emergency notifications and communication	55
Being aware of special needs and vulnerable populations	45
Other*	5

\*The responses to “Other” were: “Don’t Panic! Prepare” is good, install sirens and/or community loud speakers in neighborhoods for emergency announcements/directives, organize home owners in association and condo complexes to organize and attend meetings, have a plan to keep local major roads moving as well as possible during evacuations, more training and education (CPR, CERT, first aid) for disasters.

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

- 63, or **77.8%** of respondents, indicated that they **do not** live in an apartment or home with living space above a garage or parking area.
- 18, or **22.2%** of respondents, indicated that they **do** live in an apartment building or home with living space above a garage or parking area.
- 4 respondents 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. 7 respondents indicated that they are “Extremely Concerned”, 4 respondents indicated that they have “High Concern”, 16 respondents indicated that they have “Moderate Concern”, 8 respondents indicated that they have “Little Concern”, and 3 respondents indicated that they have “No Concern, I feel safe in my home”.

10. 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:

Answer	Number of Responses
Yes, my insurance coverage should be adequate	32
No, I don't believe my insurance coverage would be adequate for a major disaster	4
Unsure	9
I do not have an insurance policy	2
Not applicable, I rent my current residence	30

11. Respondents who are renters were asked if they have renter’s insurance. Below is a summary of responses:

Answer	Number of Responses
Yes	12
No	24
Unsure	15
Not applicable, I own my residence.	34

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

Answer	Number of Responses
Yes, I own my home and have earthquake insurance.	19
Yes, I rent my home and have earthquake insurance.	3
No, but I am interested in reviewing earthquake insurance options.	25
No, earthquake insurance is too expensive.	20
No, I do not need earthquake insurance.	5

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

Answer	Number of Responses
Yes, I own my home and have flood insurance.	11
Yes, I rent my home and have flood insurance.	5
No, but I am interested in reviewing flood insurance options.	24
No, I do not need flood insurance	32

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

- **Jewelry**
- **Auto**
- **Fire**
- **Theft**
- **Condo**
- **Liability**

15. Respondents were asked if they work in Santa Barbara County.

- 57, or **71.25%** of respondents, indicated that they **do** work in Santa Barbara County.
- 23, or **28.75%** of respondents, indicated that they **do not** work in Santa Barbara County.

16. 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:

Natural Hazard	Number of Responses
Earthquake fault zone	44
High-risk flood zone	22
Wildland urban interface (wildfire risk area)	21
I don't know	15
Landslide Risk Area	13
Liquefaction zone	8
Other*	6

\*The responses to "Other" were: construction, fire damage, tsunami, train, freeway.

17. Respondents were asked if their employer has a plan for disaster recovery in place.
- 20, or **28.57%** of respondents, **indicated that their employer does have a disaster recovery plan in place.**
  - 20, or **28.57%** of respondents, **indicated that their employer does not have a disaster recovery plan in place.**
  - 30 respondents were unsure if their employer has a disaster recovery plan in place.
  - 15 respondents skipped this question.
18. Respondents were asked if their employer has a workforce communications plan to implement following a disaster so they may contact their employees.
- 19, or **27.54%** of respondents indicated that their **employer does** have a workforce communications plan.
  - 19, or **27.54%** of respondents indicated that their **employer does not** have a workforce communications plan.
  - 31, or **44.92%** of respondents indicated that they are **unsure** if their employer has a workforce communications plan.
  - 16 respondents skipped this question.
19. 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. These answers are summarized below.
- Ground liquefaction zone.
  - Tsunami area in Beach Neighborhood by Carpinteria CERT.
  - We have a disaster plan at the mobile home park I live in.
20. Respondents were asked what recommendations they have for Santa Barbara 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:

Recommendations for Santa Barbara County	Number of Responses
Provide training and materials on how residents can be prepared for the identified risks	56
Perform outreach to ensure people are aware of their environment and the inherent risks	43
Enforce/update building codes	28
Other*	6

*\*The responses to “Other” were: Be helpful so homeowners can ask questions, inform the public how older homes are threatened by earthquakes and what to be worried about in terms of foundations and aging materials, make more street crossings over the railroad tracks, train the media to pass on valid and accurate information in emergency situations to avoid panic, continue educating the community with training programs.*

21. Respondents were asked to recommend any companies or local associations that should be involved in the Santa Barbara County hazard mitigation planning process. The following contacts were given:
  - Carpinteria Fire Department
  - Carpinteria Beach State Park
  - Carpinteria Unified School District
  - CA State Parks
  - Carpinteria Motor Transport
  - City of Carpinteria
  - Mac Brown Excavating
  
22. 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.
  - 17, or **25.4%** of respondents **said they would** like to review and comment on the draft plan.
  - 50, or **74.6%** of respondents **said they would not** like to review and comment on the plan draft.
  - 18 respondents skipped this question.
  - Fifty-four respondents included their contact information.
  
23. Respondents were asked to provide any additional comments/suggestions/questions. The responses are summarized below:
  - We own an avocado orchard- are trees susceptible to wildfire? Can we use irrigation to manage a potential wildfire?
  - Keep offering CERT training.
  - Thank you for all you do! Concerned about disaster plan in schools!
  - Inform managers of apartments, parks, and homes about this plan and these events.
  - It is very important to unify communities and inform them that no one is invincible to natural disasters or human accidents.
  - I’m worried about the risk of a tsunami.

- I would like to know some of the different hazards that may occur in the area in more detail.

### ***Public Review Period***

The City of Carpinteria made the draft annex available for public review in February 2012. Comments received will either be incorporated prior to plan adoption or catalogued for inclusion in the next plan update.

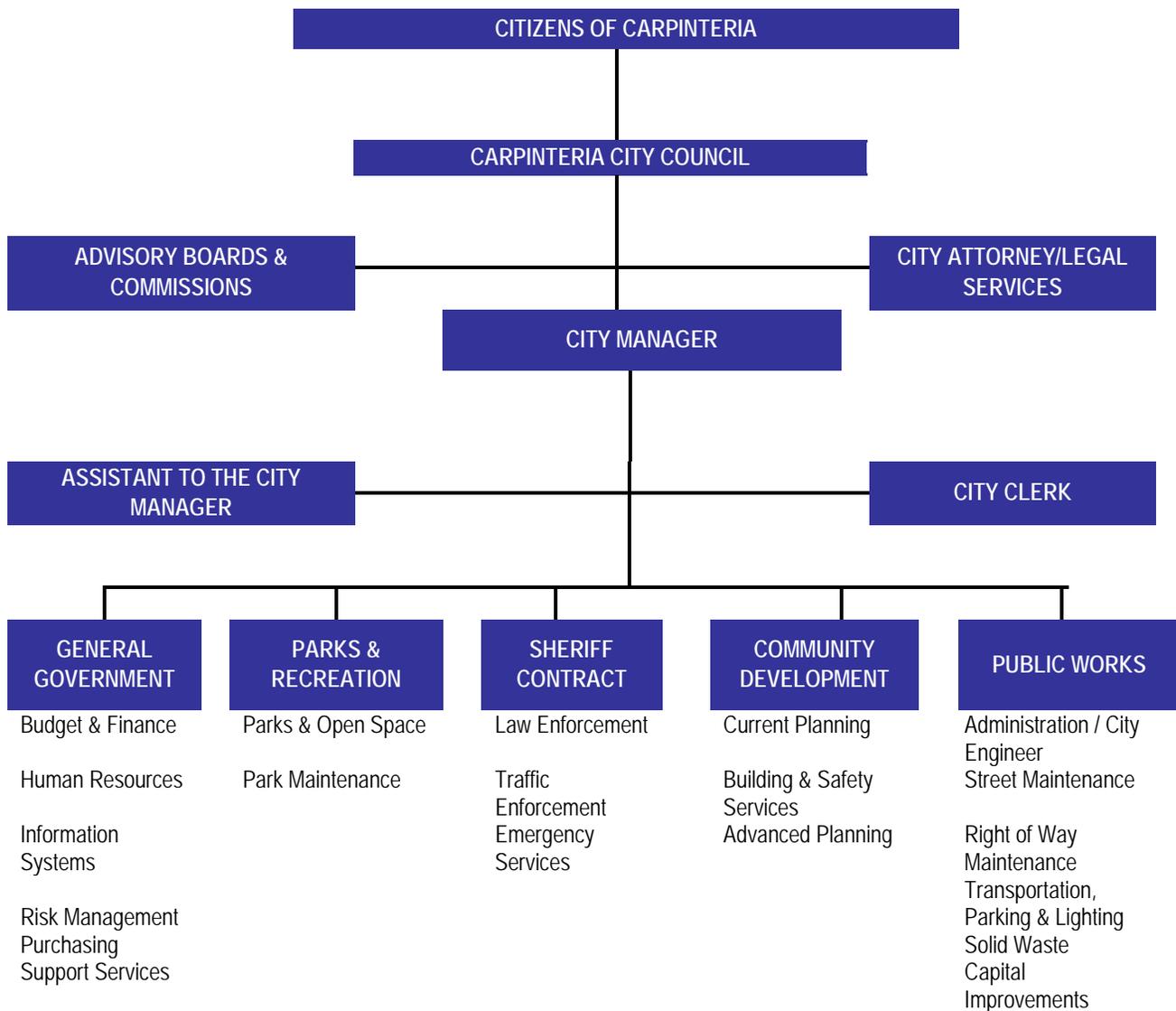
## **10.3 CAPABILITY ASSESSMENT**

The City identified current capabilities and mechanisms available for implementing hazard mitigation activities. This section presents a discussion of the roles of key departments, administrative and technical capacity, fiscal resources, and summaries of relevant planning mechanisms, codes, and ordinances.

### **10.3.1 Key Departments**

The City of Carpinteria utilizes the Council-Manager form of local governance, which includes both elected officials and an appointed City Manager. Carpinteria has five council members, which includes a mayor and a mayor pro-tem, whom are appointed to represent the entire City of Carpinteria.

The City Council is Carpinteria's legislative body, setting policy, approving budgets, and setting tax rates. Members also hire the City Manager, who is responsible for the day-to-day administration of the City, and serves as the Council's chief advisor. The City Manager prepares a recommended budget, recruits and hires most of the City's staff, and carries out the council's policy. While the City Manager may recommend policy decisions, he is ultimately bound by the actions of the Council. The Council also hires the City Attorney. The City of Carpinteria's organizational chart is listed below. The gray boxes indicate departments that are contracted labor.



**Carpinteria City Council:**

- Provides vision, adopts policies, regulations, ordinances, resolutions, and approves funding requests/budgets over all aspects of City Government.

**Carpinteria City Administration:**

- **City Manager, Office of Emergency Services (OES)**
  - Provides the leadership and supervision that, in turn, implements the policies and decisions of the City Council, thereby ensuring the delivery of services to the community.
  - City Manager serves as OES Director. The City Manager’s office will be responsible for the implementation of emergency management (including mitigation) programs for the City. Currently Police Services are provided through a contract with the Santa Barbara County

Sheriff's Department and Fire Services are provided by Carpinteria-Summerland Fire District. The City Manager oversees those contracts.

**Community Development Department:**

- Building & Safety Department: Enforces adoption of building, plumbing, electrical, seismic, and mechanical/structural codes. Develop building ordinances.
  - Review site and building plans for compliance with building codes and ordinances.
  - Damage assessment of structures from multiple causes to facilitate repair and future occupancy.
- Planning Department
  - Develop and maintain City General Plan/Local Coastal Land Use Plan, zoning ordinances and development standards.
  - Oversight of City development process assuring compliance with zoning and general plan, and including environmental impact reports, design review, historic preservation, landscape review, habitat conservation, floodway prohibitions and floodplain development standards.

**City of Carpinteria Public Works Department:**

- Maintains City infrastructure (assets) ranging from streets to parks to buildings and vehicle fleet.
- Responds to City emergencies, includes implementing the Standardized Emergency Management System (SEMS) Emergency Operation Center (EOC) to respond to disasters and assisting police and fire departments with hazardous materials clean up, traffic and perimeter control efforts, traffic accident clean up and evacuation routing.
- Responsible for planning and implementation associated with the following City plans:
  - Storm Water Management Plan
  - Floodplain Management Ordinance
  - Inter-Regional Water Management Plan
- Engineering Division: City of Carpinteria does civil engineering work both in-house and by contract with civil engineering consulting firms.
  - Reviews engineering on private and public grading, storm drain systems, street infrastructure to assure compliance with Federal, State and Local standard specifications and plans.
  - Develops engineering ordinances and policies that help protect and preserve City infrastructure.
  - Evaluates all circulation elements for projected traffic impacts.
  - Determines needed infrastructure including street and storm drain improvements.
  - Provides response personnel for evaluation of damaged infrastructure and rescue situations.
  - Responds as part of the City's EOC Team.
  - Coordinates other response agencies assisting with damage assessment.

- Police Department: Carpinteria contracts with Santa Barbara County Sheriff's Department for Police Services.
  - Responds to safety concerns involving threats and/or damage to life or property. Acts as the enforcement entity for violations of State and local laws and ordinances.
  - Primary emergency responders to acts of civil disobedience and public disorders and terrorism. Support personnel for emergency rescue and management.
  - Investigative services for criminal acts that result in personal injury/death and the destruction of property.
  - Develops and implements emergency response plans and policies, focusing on evacuation procedures and traffic control and including training for the Carpinteria Community Emergency Response Team (CERT).
  - Primary responders to acts of terrorism, focusing on suspect intervention and facility and staff protection.
- Fire Department: Carpinteria contracts with Carpinteria-Summerland Fire District to provide Fire Protection.
  - Administration: Develop, implement and monitor policies, procedures, budgets, fees, automatic aid agreements, mutual aid agreements, and liaison with other City departments and outside agencies.
  - Fire Prevention Bureau: Coordinate adoption of codes and ordinances, review site and building plans for fire code compliance, develop and present public education programs and manage the City's weed abatement program.
  - Emergency Medical Services: Manage the department's paramedic and EMT programs, respond to medical emergencies and other calls for service, provide training and oversight for the City's Public Access Defibrillation (PAD) program and participate with other community and regional health care providers to reduce public illness and injury.
  - Suppression Division: Maintain the department's personnel, apparatus, equipment and fire stations in a state of readiness to respond to the community's needs, develop and implement standard operating procedures for various types of emergency responses, respond to all types of emergencies, and train and interact with neighboring jurisdictions and regional agencies.
  - Develops and implements emergency response plans and policies, focusing on evacuation procedures and traffic control, including training for the Carpinteria Community Emergency Response Team (CERT).
  - Emergency Management: Coordinate the City's Disaster Preparedness Program, liaison with all City departments and divisions, as well as other public and private organizations, develop, coordinate and implement hazard-specific response plans, and maintain the operational readiness of the City's Emergency Management Team, the E.O.C. and other key elements.

### 10.3.2 Administrative and Technical Capacity

A summary of the City of Carpinteria administrative and technical capacity is found in Table 10-3 below:

**Table 10-3 City of Carpinteria: Administrative and Technical Capacity**

Staff/Personnel Resources	Y/N	Department/Agency and Position
A. Planner(s) or engineer(s) with knowledge of land development and land management practices	Y	Planning – Community Development Director
B. Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Engineering – City Engineer
C. Planners or Engineer(s) with an understanding of natural and/or manmade hazards	Y	Planning & Engineering – Community Development/City Engineer
D. Floodplain manager	Y	Engineering – City Engineer
E. Surveyors	N	Engineering – City Engineer/Consultants
F. Staff with education or expertise to assess the community's vulnerability to hazards	Y	Fire District – Director of Public Safety
G. Personnel skilled in GIS and/or HAZUS	Y	Engineering – City Engineer
H. Scientists familiar with the hazards of the community	Y	Consultants
I. Emergency Manager	Y	Fire District – Director of Public Safety
J. Grant writers	N	Engineering, Planning/Consultants

### 10.3.3 Legal and Regulatory Capabilities

The legal and regulatory capabilities of Carpinteria are shown in Table 10-4, which presents the existing ordinances and codes that affect the physical or built environment of Carpinteria. Examples of legal and/or regulatory capabilities can include: the City's building codes, zoning ordinances, subdivision ordinances, special purpose ordinances, growth management ordinances, site plan review, general plans, capital improvement plans, economic development plans, emergency response plans, and real estate disclosure plans.

**Table 10-4 City of Carpinteria: Legal and Regulatory Capability**

Regulatory Tools (ordinances, codes, plans)	Local Authority (Y/N)	Does State Prohibit (Y/N)
A. Building code	Y	N
B. Zoning ordinance	Y	N
C. Subdivision ordinance or regulations	Y	N
D. Special purpose ordinances (floodplain management, storm water management, hillside or steep slope ordinances, wildfire ordinances, hazard setback requirements)	Y	N
E. Growth management ordinances (also called "smart growth" or anti-sprawl programs)	Y	N
F. Site plan review requirements	Y	N
G. General or comprehensive plan	Y	N
H. A capital improvements plan	Y	N
I. An economic development plan	Y	N
J. An emergency response plan	Y	N
K. A post-disaster recovery plan	Y	N
L. A post-disaster recovery ordinance	N	N
M. Real estate disclosure requirements	Y	N

### 10.3.4 Fiscal Resources

Table 10-5 shows specific financial and budgetary tools available to the City of Carpinteria such as community development block grants; capital improvements project funding; authority to levy taxes for specific purposes; impact fees for developers for new development; ability to incur debt through general obligations bonds; and withholding spending in hazard-prone areas.

The fiscal year budget for 2010-11 General Fund Budget is \$13,835,734 which includes: General government administration services, public safety, planning and environmental and public works services. The general fund balance is an important indicator of the financial strength of the jurisdiction.

**Table 10-5 City of Carpinteria: Fiscal Capability**

Financial Resources	Accessible or Eligible to Use (Yes/No)
A. Community Development Block Grants (CDBG)	Y
B. Capital improvements project funding	Y
C. Authority to levy taxes for specific purposes	Y – 2/3 Majority Vote required
D. Fees for water and sewer service	N
E. Impact fees for developers for new developments/homes	Y
F. Incur debt through general obligation bonds	Y
G. Incur debt through special tax and revenue bonds	Y – 2/3 Majority Vote required
H. Incur debt through private activity bonds	N
I. Withhold spending in hazard-prone areas	N
J. Other – Grants	Y

### 10.3.5 Relevant Plans, Policies, and Ordinances

#### City of Carpinteria General Plan

The 2003 Carpinteria General Plan is the primary planning policy document for the city. The content of the General Plan is arranged to achieve the community goal, which is to preserve the essential character of the beach town, its family-oriented residential neighborhoods, its unique visual and natural resources and its open, rural surroundings while enhancing recreation, cultural, and economic opportunities for its citizens. The General Plan contains seven elements: Land Use; Community Design; Circulation; Open Space, Recreation, and Conservation; Noise; Public Facilities and Services; and Safety. This summary will document the portions of these elements that are applicable to hazard mitigation in Carpinteria.

#### Land Use Element

The Land Use Element establishes the type and intensity of land uses and guides growth and development in the City. The Land Use Element is the basis of the Land Use Plan of the City’s Local Coastal Program (California Coastal Act of 1976, §30108.5). The City’s theoretical buildout under this plan includes established neighborhood, district, corridor, and open space patterns as well as identified coastal resource protection and enhancement needs. The City encourages greater density and intensity development to take place along main transportation corridors and development that is compatible with surrounding land uses and protective of coastal resources unique to the area.

The two boundaries that define the City and therefore are critical determiners of potential future growth are the City jurisdictional boundary and urban/rural boundary. The City would like to find a balance between providing more housing while maintaining its land dedicated to employment, coastal resources, and agriculture. Therefore, the City is concentrating on development in close

proximity to urban and employment centers rather than outward growth and conversion of agricultural and coastal resource lands to development.

The Planning Area Boundary outside the city limits consists of approximately five square miles of land. The largest commitment of land within the city is to residential use (approximately 32.3 percent of the total land area). When the Planning Area is included, the largest commitment of land is to agricultural use. The boundary extends north to encompass the immediate watershed of the Carpinteria Valley. Activities in the watershed can impact drainage, water quality and habitat protection.

The Carpinteria Valley Water District (CVWD) currently serves all of the proposed sphere study areas, including the City, the Planning Area Boundary and the Sphere of Influence. The CVWD has an adequate supply of water resources to serve the proposed Sphere of Influence based on the proposed land uses. Water lines and connections could readily be provided or improved depending on site-specific needs, particularly for fire protection requirements.

One land use objective that correlates with hazard mitigation is to reduce the density or intensity of a particular parcel if warranted by conditions such as topography, geologic, or flood hazards, habitat areas, or steep slopes. The Plan suggests that this can be achieved by establishing an environmentally sensitive overlay district in the City's Zoning Ordinance. The overlay district would have to include density and parcel size criteria for determining the appropriate intensity of these areas.

#### Safety Element

The Safety Element identifies five categories of natural hazards that affect Carpinteria. These categories include: seismically-induced hazards, slope stability hazards, soils hazards, flood hazards, fire hazards, and hazardous materials. The purpose of the Safety Element is to adopt policies that will reduce death, injuries, property damage, and the economic and social dislocation resulting from natural hazards.

Seismically-induced hazards in Carpinteria include: fault surface rupture, ground shaking, liquefaction, and tsunamis. Several policies described in this Plan are designed to reduce the risk of damage to development in seismically-induced hazard areas. To minimize the damages from fault surface rupture and ground shaking, following seismic design criteria should be mandatory for habitable building structures, including critical facilities. All developments proposed on or within 100 feet of the Carpinteria, Rincon Creek, or Shepard Mesa Faults should be required to perform a geologic fault investigation. To reduce the effects of tsunamis, a ten foot high sea wave should be considered when planning coastal installations and developments, and a contour elevation of 40 feet should be used as a basis for establishing the tsunami risk limit. Inundation studies, evaluating the potential limit of run-up of ocean waters into the channels, should be performed for any proposed development on sea cliff promontories adjacent to narrow or constricted channels. An emergency tsunami notification and evacuation program should be initiated for residents living on beachfront and cliff properties. Development in areas identified as having high seismically-induced liquefaction potential should follow structural engineering foundation design parameters, which are outlined in the Uniform Building Code and can also be obtained through an independent structural engineering study. Geotechnical studies should also be required to more accurately determine the potential for liquefaction. These studies should be performed prior to new construction and for the retrofit of critical facilities.

Slope stability hazards in Carpinteria include: landslides, mud and debris flows, rock falls, and sea cliff retreat. Policies described in this Plan are designed to minimize the damage that could result from development of slope areas. Areas that are identified to have High Landslide Potential should be designated as open space. Building improvements and other development should be setback to protect them from bluff failure and bluff retreat over a 100 year term. Geotechnical investigations should be performed in hillside areas and in areas that have a high landslide or bluff retreat potential before being developed.

Soils hazards in Carpinteria include: expansive soils, soil settlement, subsidence, and hydrocompaction. Policies have been developed to minimize damage in areas where soil hazards have been identified. To protect the groundwater basin, existing water service to the community, and property, future development should not take place in areas of ground subsidence that is a result of groundwater, oil, or gas withdrawal until the City's Water Resource Management Program is reviewed by the City and the water district. All new development should comply with the Uniform Building Code, local City building ordinances, and geotechnical recommendations related to construction in areas identified as having a high potential for expansive soils or soil settlement.

Flood hazard areas within Carpinteria have been determined by FEMA National Flood Insurance Rate Maps (FIRMs). Areas of the City are within the 100-year flood zone and winter storms also bring high ocean tides and waves that annually threaten structures adjacent to the City beach. The City has received a permit to annually build a sand berm during the winter months to protect the structures and property. The City should also facilitate an Army Corp of Engineers study and pursue long term solutions to establish a vegetated dune system at City beach. All new construction or reconstruction, additions and remodels that have a valuation exceeding 50 percent of the valuation of the existing structure, shall be constructed so as to be protected from wave action. In an effort to reduce the damages caused by flooding, all new development proposed in the 100-year floodplain must adhere to the County of Santa Barbara Floodplain Management Ordinance to receive a building permit. Critical facilities should be discouraged from being developed in the 100-year floodplain. The City should establish setback guidelines for land use planning purposes along natural creek, river, or stream floodplains and identify and pursue opportunities to eliminate existing concrete channel and/or banking from creeks, rivers, or streams. In addition, the City should ensure that development take water runoff and drainage into consideration.

Carpinteria is susceptible to both wildland and urban fires. The Carpinteria-Summerland Fire Protection District, which has mutual aid agreements with the Ventura County and Santa Barbara County Fire Departments, provides fire prevention and suppression services to the City. Various state and federal agencies could also be called upon if the resources of these fire departments become depleted. While urban fires are usually fought by the Carpinteria-Summerland Fire Protection District, the Santa Barbara County Fire Department generally responds to wildland fires outside the urban limit zone. Peak water requirements ensure that fires can be suppressed, and if necessary, evacuation routes have been established so residents can flee the City in the event of an emergency. To mitigate the damage that can be caused by fires, all new structures must adhere to the Carpinteria-Summerland Fire Protection District, Santa Barbara County Fire Department, and Fire Sprinkler ordinances. Applicants for new development projects must verify that the water purveyor can provide the required volume of water to satisfy the peak load water requirement for the project.

To mitigate potential hazardous materials incidents, the City should enforce policies, such as the Santa Barbara County and State Regional Water Quality Control Board policies, that ensure that the use, storage, transportation and disposal of hazardous materials does not result in hazardous

discharge or runoff. Hazardous materials or wastes stored in closed containers at a facility should not be within 50 feet of an adjacent property. New residences should not be located adjacent to known handlers of acutely hazardous materials. Further, prior to development of any site identified as having been used for the storage of hazardous materials, the city shall require the developer to submit documentation to demonstrate that testing has been conducted to determine the existence and extent of soil and/or groundwater contamination and that, based on the results, an appropriate clean-up program is established and completed. The City, through the State Department of Agriculture, will identify active agricultural fields handling acutely hazardous pesticides and will ensure appropriate land use and urban development be located adjacent to these fields. Structures should not be closer than 300 feet from the Carpinteria Oil and Gas Processing Facility and structures located between 300 and 1,000 feet from the facility should be constructed using safety glass. Habitable structures should not be located close to gas pipelines, railroad right-of-ways, oils wells, or other corridors that have the potential for hazardous materials leaks.

#### Public Facilities and Services Element

A shortage of critical materials, such as a clean water supply, is a hazard that jurisdictions strive to avoid. In Carpinteria, water is supplied by the Carpinteria Valley Water District (CVWD) through line and storage facilities controlled by the district. As stated above, the CVWD has an adequate supply of water resources to serve the proposed Sphere of Influence based on the land uses proposed in this Plan. Water lines and connections could readily be provided or improved depending on site-specific needs, particularly for fire protection requirements. Aside from this General Plan, the Coastal Act also ensures that the water supply in Carpinteria will be protected by requiring that depletion of groundwater supplies be prevented.

Another hazard that jurisdictions strive to avoid is a utility mishap. The General Plan indicates that natural gas, electricity, telephone, and television services are all provided within the City. Underground cables are more dominant than overhead lines in Carpinteria and the California Utilities Commission has deemed that cables should be placed underground. All new development is required to underground all utilities. The undergrounding of utility cables can prevent a power/utility service outage in Carpinteria during flooding, high winds, and earthquakes.

Fire and police protection is also a concern of Carpinteria, as ensuring the capabilities of these departments helps aid hazard mitigation. The General Plan indicates that the Carpinteria-Summerland Fire Protection District provides Carpinteria with an adequate amount of manpower and facilities to service the City in the event of a fire or emergency. All firemen have EMT-1 training and a private medical service, Mobile Life Services, operates from the Carpinteria Fire Stationhouse, providing paramedic services to the City. The Plan also indicates that the City has an adequate number of fire hydrants. Police services within the City of Carpinteria are provided by the Santa Barbara Sheriff's Department. Within the State Park, police services are provided by the sheriff's department and park rangers.

#### **City of Carpinteria General Plan Report**

The Community Development Department of the City of Carpinteria prepares the annual General Plan report to review activities and projects of the prior year for areas undergoing development. Its goal is to enhance area parks and recreational opportunities and preserve environmentally sensitive areas while increasing coastal access.

The Carpinteria General Plan is organized into seven Elements: Land Use; Community Design; Circulation; Open Space, Recreation & Conservation; Safety; Noise; and Public Facilities & Services. Within each General Plan Element, a description is provided followed by the implementation measures undertaken in response to the respective objectives, goals and policies.

Specific to hazard mitigation, the *Safety Element* identifies known public safety hazards including seismic and other geologic hazards, flood hazards, slope stability, soil hazards and fire hazards. The City has established an emergency plan which includes the Standardized Emergency Management System (SEMS) and multi-hazard function plan.

Specific to seismically induced hazards, the City seeks to minimize the potential risks and reduce the loss of life, property and the economic and social dislocations resulting from fault surface rupture in the planning area. In response, all buildings requiring a building permit are analyzed by the City's Building inspector; once reviewed, a recommendation is made based on case-study standards. With respect to coastal installations, the City requires a wave action uprush study to demonstrate that the structure will withstand high surf. Its receipt during the early planning process is then used to guide development review. In addition, Carpinteria's soil hazards maps identify areas of highly expansive and soil settlement areas.

To counteract slope stability hazards, Carpinteria aims to minimize the potential risks and reduce the loss of life, property and economic and social dislocations. In response, the City has zoned and designated most of the bluff areas as open space, and has required that all developed areas at risk of bluff failure be protected from bluff retreat over a 100-year term.

For areas at risk of soil hydrocompaction and subsidence, the City requires that all new development comply with geotechnical recommendations related to construction in areas identified as having high potential to soil settlement.

Flood hazards are identified according to Federal Emergency Management Administration (FEMA) Flood Insurance Rate Maps (FIRMs) and the 100-year flood plain. These maps indicate that U.S. 101 would be overtopped by a 100-year flood plain; as a result City staff are working with Caltrans and the Santa Barbara County Association of Governments to minimize this risk. The Santa Barbara County Flood Control District also performs routine maintenance, removing sediments and clearing objects from creeks within the City, allowing water to flow safely while controlling flooding. Furthermore, Public Works crew complete a full inspection and clean drain pipes, ditches and culverts annually. The Downtown and Beach Neighborhood proposes new underground storm drains which are currently in the City's Capital Improvement Plan. In conjunction to these projects, a Storm Drain Master Plan was completed in 2008. This is an update to its previous plan and takes into account the adoption of new laws, regulations, permits, policies and practices. Its goal is to identify drainage system areas that will need to be addressed over a 20-year planning period.

Fire hazards are a constant threat due to dry, warm weather throughout the year. The City works closely with fire district personnel to minimize the risk of urban and wildland fires. Furthermore, the City requires review and approval of all new structures by the Carpinteria-Summerland Fire Protection District.

Lastly, the risk of exposing hazardous materials is minimized through a series of policies concerning the use, storage, transportation, and disposal of hazardous materials. Underground or aboveground

storage tanks are consistent with County of Santa Barbara and Regional Water Quality Control Board policies aimed at preventing the hazardous discharge or runoff of hazardous materials.

Through the identification of various natural and manmade hazards, the City of Carpinteria aims to minimize the respective risks. This is primarily achieved through the implementation of policies to strengthen structures; public outreach programs that communicate the risk inherent these risks; and an effort to secure emergency response during and immediately after an event.

### **City of Carpinteria Emergency Operations Plan**

This Emergency Operation Plan addresses the City of Carpinteria's planned response to extraordinary emergency situations associated with natural disasters, technological incidents, and national security emergencies. The document is divided into three parts:

- **Part I – Basic Plan.** Overall organizational and operational concepts relative to response and recovery, as well as an overview of potential hazards. The intended audience is the Emergency Operations Center (EOC) Management Team.
- **Part II – Emergency Organization Functions.** Description of the emergency response organization and emergency action checklists. The intended audience is the EOC Management Team.
- **Part III – Legal Documents.** Supporting and legal documents pursuant to SEMS/NIMS and other state statues and documentation to the Carpinteria Emergency Operation Plan. The intended audience is all SEMS/NIMS emergency management staff.

With regards to hazards mitigation, the document cites that SECTION 409 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988 would be enacted following a Presidentially declared Emergency or Major Disaster. It also assigns hazard mitigation responsibilities to various elements of federal, state and local government in California. The City, in preparation with the County of Santa Barbara, has prepared a Regional Hazard Mitigation Plan. Furthermore, SECTION 2.40.110 directs the city council to adopt "The City of Carpinteria Standardized Emergency Management Systems Multi-Hazard Functional Plan (SEMS MHFP)" which would establish the formation of the emergency services organization.

Following a major disaster, recovery actions would occur in two general phases: Short-Term and Long-Term Recovery; the former is executed by the Emergency Operations Center, while in the latter phase it is transitioned to the City Departments responsible for the various activities.

The major objectives of *Short-Term Recovery* operations include: hazard assessment, rapid debris removal and cleanup, coordinated restoration of essential services, attention to high impact areas, medical and mental health services, and abatement of hazardous structures. In contrast, the major objectives of *Long-Term Recovery* operations include: development of a recovery team, economic and resource stabilization, hazard mitigation, restoration and reconstruction of public facilities, coordinated delivery of long-term social and health services, recovery of disaster response costs, and post-event assessments.

The EOP discusses at length the Hazard Mitigation Grant Program (HMGP), which may be leveraged following a Presidentially-declared disaster.

The EOP also includes an organizational matrix which would be used to designate responsibilities to various City department and agencies. Checklists are provided for care and shelter needs, which would be administered by the Department of Social Services; additional checklists are provided to assist those with disabilities and other special needs, to inspect buildings for re-occupancy of key facilities, and to ensure the maintenance and restoration of utilities and critical infrastructure.

To enhance the capability for the City to respond to emergencies, a *Planning/Intelligence* section is provided. Its responsibility is to collect, evaluate, display and disseminate incident information and resource status. This Section functions as the primary support for decision-making to the overall emergency organization. It also provides anticipatory appraisals and develops plans necessary to cope with changing field events. During an incident, other department heads would advise the Planning/Intelligence Section Coordinator on various courses of action from their departmental level perspective.

The *Logistics Section's* primary responsibility is to ensure the acquisition, transportation and mobilization of resources to support the response effort at the disaster sites, public shelters, EOCs, etc. This Section provides all necessary personnel, supplies and equipment procurement support. Its objectives include the collection of information to determine needs and prepare for expected operations, the coordination of logistical support with the EOC Director, and the preparation of reports required for identifying the activities performed by the Logistics Section.

Another section in the EOP discusses the role of the Finance/Administration's responsibility to maintain the financial systems necessary to keep the City functioning during a disaster. These systems include payroll, payments, revenue collection, claim processing, and cost recovery documentation. The Finance/Administration Section acts in a support role in all disasters/emergencies to ensure that all required records are preserved for future use and that documentation is properly archived for State OES and FEMA filing requirements.

### **City of Carpinteria Capital Improvement Plan**

Several capital improvement projects were adopted for the 2008 fiscal year in the City of Carpinteria that would mitigate potential flood hazards. Signature flood mitigation projects include storm drainage constructions at Viola Fields, East Via Real, Star Pine Road, Upper Palm Avenue, Walnut Avenue, Calle Arena, and at Casitas Pass; resulting from increased channeling of storm water flows, urban flooding for these areas would be reduced.

Culvert and drainage extensions were planned for Estero Way and Linden Avenue, while a storm drain system retrofit program was adopted which would include in-line separators, catch basin devices, and storm drain flaps throughout the City. This would work in conjunction with the adopted Storm Drain Master Plan which would provide a comprehensive analysis of storm water collection system and treatment needs.

Other projects included a proposed water lift station at Ash Avenue during high tide flooding events; a beach drainage effort; and the replacement and raising of the Carpinteria Bridge.

In unison, these flood mitigation projects provide several means by which to reduce urban runoff, all in an effort to minimize economic losses associated with severe rainfall or tidal events.

The City of Carpinteria will continue to review this hazard mitigation plan when determining updates to the Capital Improvement Plan, so that new/ongoing projects may take into consideration hazard mitigation measures.

### **City of Carpinteria Storm Water Management Plan**

In the State of California, the State Water Resources Control Board (SWRCB) and the various Regional Water Resource Control Boards (RWRCBs) implement mandates of the Federal Clean Water Act and the National Pollutant Discharge Elimination System (NPDES) permit program. During one of their studies, the SWRCB determined that urban runoff is a leading cause of pollution through the state and a contributor to pollutants of concern (POC), such as nutrients, pathogens, hydrocarbons, metals, trash and pesticides to waterways. In compliance with various federal and state requirements, the City as a municipality and operator of a separate storm water sewer system (MS4) has prepared the Storm Water Management Plan (SWMP) to guard against the detrimental effects on human health and surrounding ecosystems.

The goal of the SWMP is to protect the health of the public, the environment, and water quality from the impacts of storm water runoff. It outlines a program comprised of guiding principles, strategies, and procedures for the protection of water quality and reduction of pollutant discharges to the maximum extent practical.

The SWMP was developed in order to achieve MEP standards. This process includes a thorough identification and the selection and implementation of best management practices (BMPs) as described below:

#### *Public Education and Outreach on Storm Water Impacts*

The goal is to develop and implement the most relevant and consistent messages on storm water quality to be used in brochures. The brochures are in Spanish and English and focus on the City's POCs. Home-owners, Automotive Businesses, and Restaurants/Hospitality Services will each be targeted with a separate brochure, detailing the methods necessary for proper grease, oil, and battery disposal.

#### *Public Involvement/Participation*

The goal is to facilitate public participation and involvement in the development, implementation and periodic review of the SWMP. The benefits include but are not limited to potentially providing the community with more volunteers, improving and increasing public knowledge and understanding of local storm water issues, and increasing public interest in larger watershed issues.

#### *Illicit Discharge and Detection and Elimination*

The goal of this control measure is to identify and eliminate sources of illicit discharge and illegal dumping. The BMPs contained in this section will control and eliminate illicit discharges through a comprehensive detection and abatement program which protects public health and safety. Prevention is also enhanced through public education and target business/industry education and training on what constitutes illicit discharges, the hazards and consequences of illegal disposal, safe disposal options, and incentives for safe disposal.

### Construction Site Runoff Control

The purpose of construction site runoff controls is to prevent soil and construction waste from entering storm water. Currently, City staff utilizes the permit review process as a vehicle for educating architects, engineers and contractors on safe storm water practices. Furthermore, new review procedures are under development that will consider potential water quality impacts for discretionary projects; this is an addition to the new construction site inspection checklist, the new procedures and enforcement measures for proper contaminated water disposal, and the various training programs for City staff on best management practices.

### Post-Construction Storm Water Management in New Development and Redevelopment

This control measure focuses on the integration of storm water consideration into site planning and design processes. Its goal is to provide the structure for the City to protect water quality from new development and redevelopment. The City is implementing land use policies that include pollution prevention measures and drafting the design review process to also include storm water management considerations.

### Pollution Prevention/Good Housekeeping for Municipal Operation

The purpose of the Pollution Prevention and Good Housekeeping BMPs are to ensure that the City is delivering of public services occurs in a way that stewards water quality and protects its beneficial uses. It includes the development and implementation of an operation and maintenance program that includes training components whose goal is to reduce pollutant runoff from municipal operations.

In summary, though these new standards reflect the compliance of water quality standards by the City of Carpinteria, its effects are also translated into a reduction of flood risk. This is evidenced through storm water drainage maintenance and repair, public outreach efforts on pollution and overall storm water events, and the development of new pre- and post- construction regulations.

## **Repetitive Loss (RL) Properties**

Repetitive loss properties are defined as property that is insured under the NFIP that has filed two or more claims in excess of \$1,000 each within any consecutive 10-year period since 1978. Currently, there are four repetitive loss structures in the City of Carpinteria. After reaching out to FEMA, we were unable to obtain further information on the four repetitive loss structures within the City.

## **10.4 HAZARD ASSESSMENT**

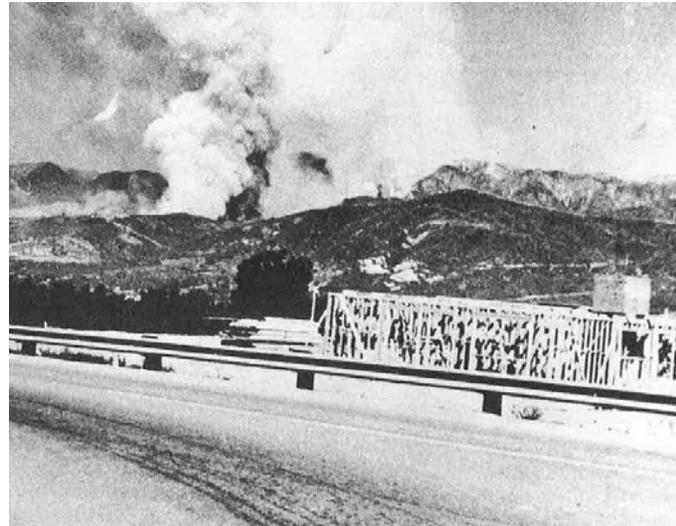
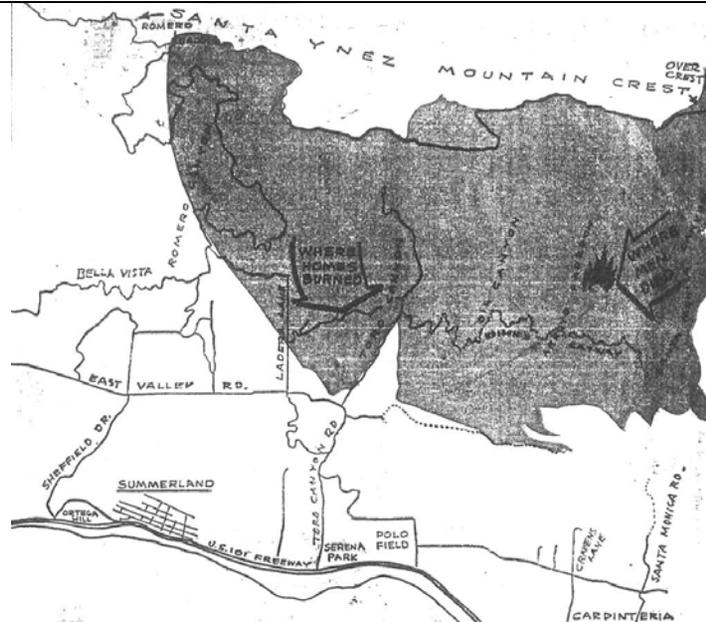
### **10.4.1 Previous Occurrences**

The table summarizes past occurrences of natural hazards impacting the City of Carpinteria since 1969. Reviewing this information helped the City's Local Planning Team review the Countywide risk assessment (Section 5) from a more local perspective. Items regarding the risk of natural hazards within the City of Carpinteria are noted in the following sections.

<p>January 1969 Flood</p> <p>The Santa Barbara News Press described 1,000 people fleeing homes in Carpinteria amidst “a morass of deep and slippery mud and debris.”</p>		<p>Of the \$5 million in county losses and \$2 million in private losses, Carpinteria High School sustained \$100,000 in damages and the tab for Carpinteria streets was \$100,000.</p>
<p>January 1969 Oil Spill</p> <p>A blow-out on Union Oil’s Platform A six miles offshore resulted in 80,000 to 100,000 barrels of oil into the Santa Barbara Channel. The oil washed up and covered beaches from Goleta to Rincon and the northern Channel Islands.</p>		<p>Union oil awarded nearly \$6.5 million to owners of beachfront homes, apartments, motels, and hotels. Union Oil settled a lawsuit filed by the County of Santa Barbara and the cities of Santa Barbara and Carpinteria in the amount of \$9.5 million for the loss of property.</p>

October 1971  
Romero Canyon Fire

From Summerland to the Ventura County Line, 16,000 acres burned in 10 days. Five homes and two buildings were destroyed near Toro Canyon. Four bulldozer operators were killed and 23 people were injured. Over 2,000 firefighters were deployed.



Watershed damage - \$1,750,000  
Damage to structures, vehicles, etc.  
-\$500,000  
Suppression – more than \$250,000

August 1978  
Earthquake

5.7 magnitude earthquake centralized in Santa Barbara. 65 people sustained injuries. Near Goleta, a freight train was derailed by the shock, several buildings were damaged, and there was minor damage to a bridge.



A total of \$15 million in property damage in Santa Barbara county.

February 1980  
Flood

Presidential disaster declaration.  
Severe flooding, mudslides, and  
high tides throughout Santa  
Barbara County.



**BULLDOZING OPERATIONS** were  
heaviest at Sandyland Shores where  
heavy flooding occurred.

**CARPINTERIA HERALD**  
Carpinteria, CA 93013  
Friday, February 22, 1980 Page 6



The City of Carpinteria collected a  
\$20,000 reimbursement.

January 1981  
Flooding

High swells caused flooding of roadways and parking areas. One man injured as a result of the high tide.



city councilman Ruben Organista surveys flooding at the south end of Ash Street.



HIGH SURF drew a crowd Thursday morning to the beach end of Linden Avenue, where merciless waves last year flooded nearby apartments. The pole in foreground, with its foundation being undermined by the surf, is part of the "volleyball court" usually high and dry under normal circumstances. City officials said they had given out 150 sandbags to property owners by Thursday morning.

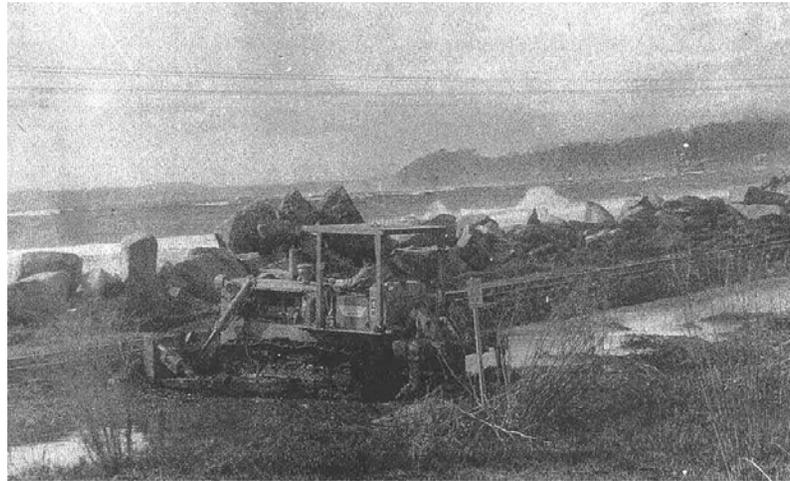
Unable to obtain estimated damage costs.

February 1983  
Fierce Windstorm and  
Flooding

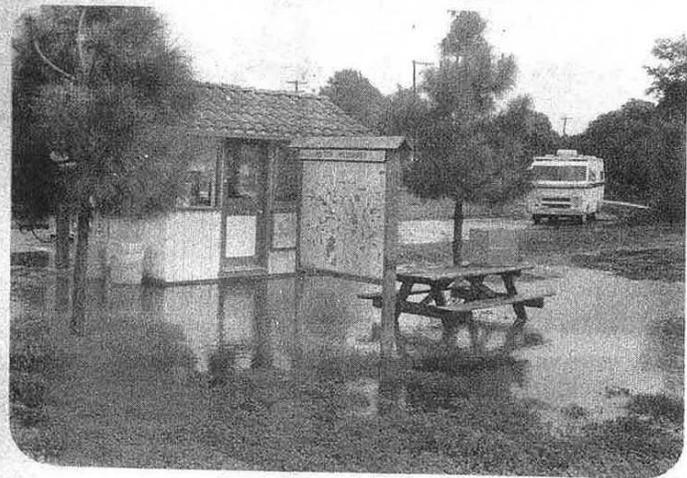
Trees large and small toppled all over Carpinteria. The fierce wind disconnected electrical power for the entire community with outages varying from a half hour to several hours. There was also a transformer explosion at the Chevron bulk processing facility that could be seen all over town. Over 500 tons of sand was needed to replace the protective dunes that were wiped out by the strong waves.



SPECTATORS appear transfixed Saturday by the condition of the State Beach lifeguard headquarters.



The City of Carpinteria  
suffered an estimated  
\$120,000 in damages.

<p>January 1994 Northridge earthquake</p> <p>Shaking awakened residents and caused electricity to go out.</p>		<p>The earthquake caused an estimated \$20 billion in damages.</p>
<p>January 1995 Flooding</p> <p>Presidential disaster declaration. Flooding on major channels. About 510 structures reported flooded along South Coast. All modes of transportation in and out of the South Coast were cut off; some not restored for days.</p>		<p>Approximately 510 structures damaged with a total cost of \$50 million. Total of \$100 million in public and private damages.</p>

January 2005  
Flood

La Conchita Landslide.  
Presidential disaster  
declaration. Highways 101,  
33, and 150 closed isolating  
the South Coast; repairs took  
months.



Cost the state \$10 million a  
day for the closure of Highway  
101. The closure lasted one  
week.

## 10.4.2 Hazard Identification and Ranking

The City of Carpinteria Local Planning Team reviewed the hazard ranking worksheet developed by the County MAC. After much discussion, the Local Planning Team agreed that the City rankings were the same as the County's rankings. In the City 2007 Hazard Mitigation Plan, the City identified oil industry/toxic spill incident as a hazard, but the team this year, decided to leave the ranking as the County MAC had developed it, and not consider oil spills as part of this plan. The City decided to exclude oil spills as an identified hazard because the County of Santa Barbara Energy Division developed an Oil Spill Area Contingency Plan which provides clear directives on oil spill response. Additionally, the City of Carpinteria signed a Memorandum of Understanding with the State of California and County of Santa Barbara in April of 2003, designating Santa Barbara County Office of Emergency Services as the lead agency for oil spill management within the City of Carpinteria.

Table 10-6 provides the hazard ranking for the City of Carpinteria while Table 10-7 provides the ranking worksheet for how the Local Planning Team calculated each specific hazard as impacting the City (which for the City of Carpinteria is the same as the County's ranking worksheet).

**Table 10-6**  
**City of Carpinteria - Hazard Ranking and Planning Consideration 2011**

Hazard Type and Ranking	Planning Consideration Based on Hazard Level
Flooding (including coastal surge)	Significant
Wildfire	Significant
Agriculture (pests and disease)	Significant
Earthquake	Significant
Landslide/Coastal Erosion	Moderate
Dam Failure	Limited
Tsunami	Limited

**Table 10-7 Hazard Ranking Worksheet**

**HAZARD RANKING WORKSHEET - City of Carpinteria**

Hazard Type	Probability	Impact			Total Score	Hazard Planning Consideration
		Affected Area	Primary Impact	Secondary Impacts		
<b>Importance Factor:</b>	<b>2</b>	<b>0.8</b>	<b>0.7</b>	<b>0.5</b>		
DAM FAILURE	4	1.6	2.8	1.5	24	Limited
EARTHQUAKE	6	3.2	2.1	1.5	41	Significant
WILDFIRE	8	3.2	2.1	1.5	54	Significant
FLOODING (include coastal surge)	8	3.2	2.1	2	58	Significant
TSUNAMI	4	2.4	2.1	1.5	24	Limited
LANDSLIDE/COASTAL EROSION	8	1.6	1.4	1.5	36	Moderate
AGRICULTURE (pests and disease)	Pending Discussion with the Ag Commissioner					
Orange cells reflect revisions/changes to the City ranking						
City Revisions: The City did not make any changes to the hazard ranking worksheet.						

The probability of each hazard is determined by assigning from 1 to 4, based on the likelihood of occurrence from his data. This ranking is multiplied by an importance factor of : impact value includes a summed ranking for affected area impact and secondary impact. Each ranking is multiplied t importance factor as indicated. The probability score is mu the sum of the three impact scores to determine the total s hazard. The hazard planning consideration is determined score as indicated by the Hazard Level scale below.

**Probability** Importance   
*Based on estimated likelihood of occurrence from historical data*

Level	Probability	Score
1	Unlikely	2
2	Somewhat Likely	4
3	Likely	6
4	Highly Likely	8

**Affected Area** Importance   
*Based on size of geographical area of community affected by hazard*

Level	Affected Area	Score
1	Isolated	0.8
2	Small	1.6
3	Medium	2.4
4	Large	3.2

**Primary Impact** Importance   
*Based on percentage of damage to typical facility in community*

Level	Impact	Score
1	Negligible - less than 10% damage	0.7
2	Limited - between 10% and 25% damage	1.4
3	Critical - between 25% and 50% damage	2.1
4	Catastrophic - more than 50% damage	2.8

**Secondary Impacts** Importance   
*Based on estimated secondary impacts to community at large*

Level	Impact	Score
1	Negligible - no loss of function, downtime, and/or evacuations	0.5
2	Limited - minimal loss of function, downtime, and/or evacuations	1
3	Moderate - some loss of function, downtime, and/or evacuations	1.5
4	High - major loss of function, downtime, and/or evacuations	2

**Total Score = Probability x Impact, where:**  
 Probability = (Probability Score x Importance)  
 Impact = (Affected Area + Primary Impact + Secondary Impacts), where:  
 Affected Area = Affected Area Score x Importance  
 Primary Impact = Primary Impact Score x Importance  
 Secondary Impacts = Secondary Impacts Score x Importance

**Hazard Level**

Total Score	(Range)	Distribution	Hazard Level
0.0	12.0	2	None
12.1	32.0	1	Limited
32.1	39.6	3	Moderate
39.7	64.0	0	Significant

**Hazard Level**

Total Score (Range)	Hazard Level	Distribution
0.0 12.0	None	0
12.1 32.0	Limited	0
32.1 39.6	Moderate	0
39.7 64.0	Significant	0

The historical data presented above for incidents within the City of Carpinteria is the only additional information with regard to hazard profiles the City adds to the County's Hazards Assessment presented in Section 5.

## 10.5 VULNERABILITY ASSESSMENT

The City of Carpinteria identified 68 critical facilities as shown in the table below. These facilities primarily included utilities, government, and educational structures. For the vulnerability assessment, structure and content values were available for some, but not all of the critical facilities.

Facility Name/Description	Building Replacement Value	Contents Value	Occupancy (# of People)
Carpinteria Fire Station 1	\$7,000,000	\$150,000	5
Carpinteria Fire Station 2	\$4,000,000	\$75,000	4
Carpinteria Summerland HQ	\$0	\$60,000	9
Wastewater Treatment Plant	\$60,000,000		10
Sewage Pump Station 1	\$2,000,000		0
Sewage Pump Station 2	\$1,500,000		0
Sewage Pump Station 4	\$1,000,000		0
Sewage Pump Station 5	\$500,000		0
Sewage Pump Station 6	\$400,000		0
Sewage Pump Station 7	\$5,000,000		0
Water District Main Office	\$1,200,000	\$200,000	17
Water District Maintenance Building	\$1,800,000	\$466,000	
Headquarters Well	\$1,500,000		
Headquarters Filtration Plant	\$500,000		
Headquarters Well Control Building	\$700,000		
Headquarters Well Enclosure	\$90,000		
Lateral 10 Booster Station	\$10,000		
Foothill Tank	\$5,500,000		
Foothill Tank Control Building	\$1,500,000		
El Carro Well	\$1,500,000		
El Carro Well Filtration Plant	\$1,500,000		
Lyon Well	\$800,000		
Smillie Well	\$400,000		
High School Well	\$1,500,000		
High School Well Treatment Plant	\$800,000		
Carpinteria Reservoir	COMB		
Carpinteria Reservoir Control Building	COMB		
Lateral 30 Booster Station	\$180,000		
Gobernador Booster Station	\$58,000		
Gobernador Reservoir	\$1,250,000		
Shepard Mesa Tank	\$500,000		

Facility Name/Description	Building Replacement Value	Contents Value	Occupancy (# of People)
Carpinteria High School	\$28,535,898		821
Carpinteria Middle School	\$14,366,233		572
Aliso Elementary	\$6,457,908		468
Canalino Elementary	\$10,583,606		569
Rincon/Foothill High School	\$210,720		80
Carpinteria Children's Project @ Main	\$4,360,870		38
City Hall (Sheriff's Substation, Maintenance)	\$4,084,877	\$351,910	30
Bridge #51C-0143	\$10,000,000		
Bridge #51C-0172	\$10,000,000		
Bridge #51C-0142	\$10,000,000		
Bridge #51C-0295	\$10,000,000		
Viola Fields Public Facilities	\$262,210		
Cavalli Property	\$1,320,927		
Monte Vista Park Public Facilities	\$59,810		
Veteran's Memorial Building			
8th Street Bridge (Crossing Carpinteria Ck)	\$1,000,000		
Highway 101 Corridor & Interchange			
Highway 101 Corridor & Interchange			
Highway 101 Corridor & Interchange			
Highway 101 Corridor & Interchange			
Highway 101 Corridor & Interchange			
Highway 101 Corridor & Interchange			
Downtown "T" Business District	\$100,000,000		
Casitas Pass Road Business District			
Eastside Corridor Business Parks			
Westside Corridor Business District			
Santa Monica Business District			
Southern CA Edison - Substation			
Verizon			
Natural Gas Odorant Station (Pita's Point)			
Natural Gas Odorant (Carpinteria Oil & Gas)			
Casitas Pier			
Union Pacific RR & AMTRAK			
Bailard Residential Property	\$1,799,574		
CUSD District Office	\$781,008		
Carpinteria Valley Museum of History			25
Carpinteria Public Library			

The results of these facilities shown to be impacted (AT LEAST moderately) from each hazard are shown in the table below (NOTE: Four critical facilities were located outside of city limits and

addresses for 15 of the facilities were not found; for these reasons, GIS analysis was not performed for these 19 facilities):

Hazard Type	Specific Risk	Count or (Average)	% of Critical Facilities Impacted	Exposure
Flood				
	FEMA Flood Zone	7	14.5%	\$65,205,895
	Flood Overlay Zone	7	14.5%	\$65,205,895
Fire				
	Fire Severity Zone	0	0%	\$0
	WUI	25	52%	\$75,902,822
	Fire Threat	44	92%	\$294,981,845
Dam Inundation	Dam inundation zone	0	0%	\$0
Landslide	Landslide incidence	0	0%	\$0
Earthquake				
	Groundwater/Liquefaction Severity	48	100%	\$298,192,645
	Peak Ground Acceleration	(2.45)	N/A	N/A
Tsunami	Tsunami inundation area	0	0%	\$0

It is worth noting that a majority of the City of Carpinteria’s critical facilities evaluated were at least moderately impacted by the following threats:

- FEMA Flood Zone
- Wildland Urban Interface
- Fire Threat
- Groundwater/Liquefaction Severity

A full description of the threats in the table above is provided in Section 6 of the countywide mitigation plan. As the City continues to assess its vulnerability to the identified hazards, the collection of better data will help to improve the risk assessment process in order to direct planning and mitigation decisions.

### 10.5.1 Critical Facilities and Flood Vulnerability

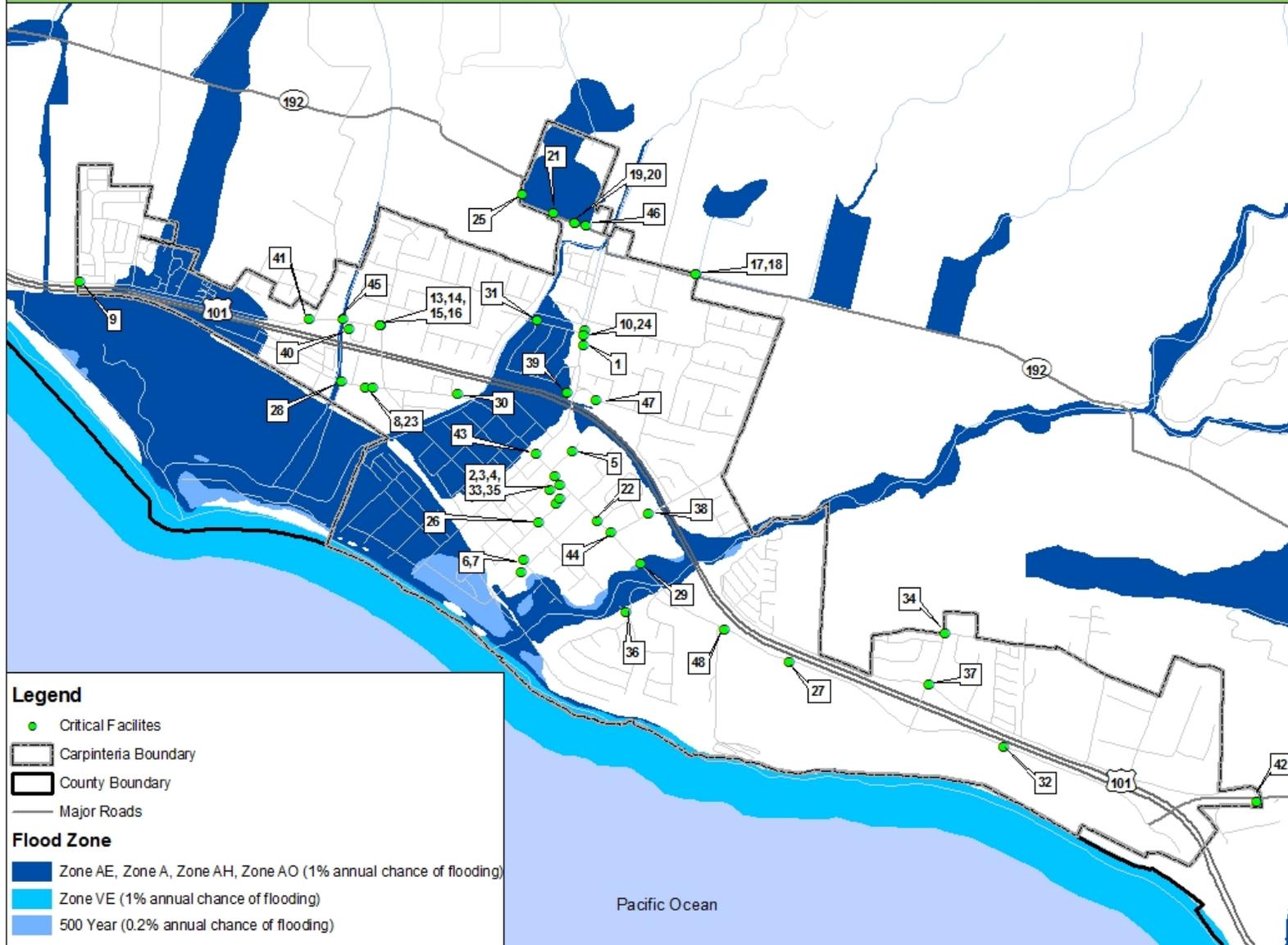
The table below presents the mapped critical facilities and their exposure to flood risk. The Map ID number for each critical facility corresponds to those found on the following maps showing the location of the critical facilities in relation to the County’s profiled hazards. Using a GIS and the data shown in these maps, it was determined which critical facilities are exposed to which hazards by whether or not they fall within the mapped hazard area.

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Flood Hazard	
							FEMA Flood Zone	Flood Overlay Zone
1	CUSD District Office	Education	1400 Linden Ave	\$ 781,008		\$ 781,008	Outside Floodplain	Outside Flood Overlay Zone
2	Carpinteria Valley Museum of History	Education	956 Maple Ave				Outside Floodplain	Outside Flood Overlay Zone
3	Carpinteria Public Library	Education	5141 Carpinteria Ave				Outside Floodplain	Outside Flood Overlay Zone
4	Carpinteria Fire Station 1	Government	911 Walnut Ave	\$ 7,000,000	\$ 150,000	\$ 7,150,000	Outside Floodplain	Outside Flood Overlay Zone
5	Carpinteria Summerland HQ	Government	1140 Eugenia Pl		\$ 60,000	\$ 60,000	Outside Floodplain	Outside Flood Overlay Zone
6	Wastewater Treatment Plant	Government	5300 Sixth St	\$ 60,000,000		\$ 60,000,000	Outside Floodplain	Outside Flood Overlay Zone
7	Sewage Pump Station 1	Government	546 Palm Ave	\$ 2,000,000		\$ 2,000,000	Outside Floodplain	Outside Flood Overlay Zone
8	Sewage Pump Station 2	Government	4527 Carpinteria Ave	\$ 1,500,000		\$ 1,500,000	Outside Floodplain	Outside Flood Overlay Zone
9	Sewage Pump Station 4	Government	3950 Via Real	\$ 1,000,000		\$ 1,000,000	Outside Floodplain	Outside Flood Overlay Zone
10	Sewage Pump Station 7	Government	1488 Linden Ave	\$ 5,000,000		\$ 5,000,000	Outside Floodplain	Outside Flood Overlay Zone
11	Water District Main Office	Government	1301 Santa Ynez Ave	\$ 1,200,000	\$ 200,000	\$ 1,400,000	Outside Floodplain	Outside Flood Overlay Zone
12	Water District Maintenance Building	Government	1301 Santa Ynez Ave	\$ 1,800,000	\$ 466,000	\$ 2,266,000	Outside Floodplain	Outside Flood Overlay Zone
13	Headquarters Well	Utilities	1301 Santa Ynez Ave	\$ 1,500,000		\$ 1,500,000	Outside Floodplain	Outside Flood Overlay Zone
14	Headquarters Filtration Plant	Utilities	1301 Santa Ynez Ave	\$ 500,000		\$ 500,000	Outside Floodplain	Outside Flood Overlay Zone
15	Headquarters Well Control Building	Utilities	1301 Santa Ynez Ave	\$ 700,000		\$ 700,000	Outside Floodplain	Outside Flood Overlay Zone
16	Headquarters Well Enclosure	Utilities	1301 Santa Ynez Ave	\$ 90,000		\$ 90,000	Outside Floodplain	Outside Flood Overlay Zone
17	El Carro Well	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Floodplain	Outside Flood Overlay Zone
18	El Carro Well Filtration Plant	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Floodplain	Outside Flood Overlay Zone

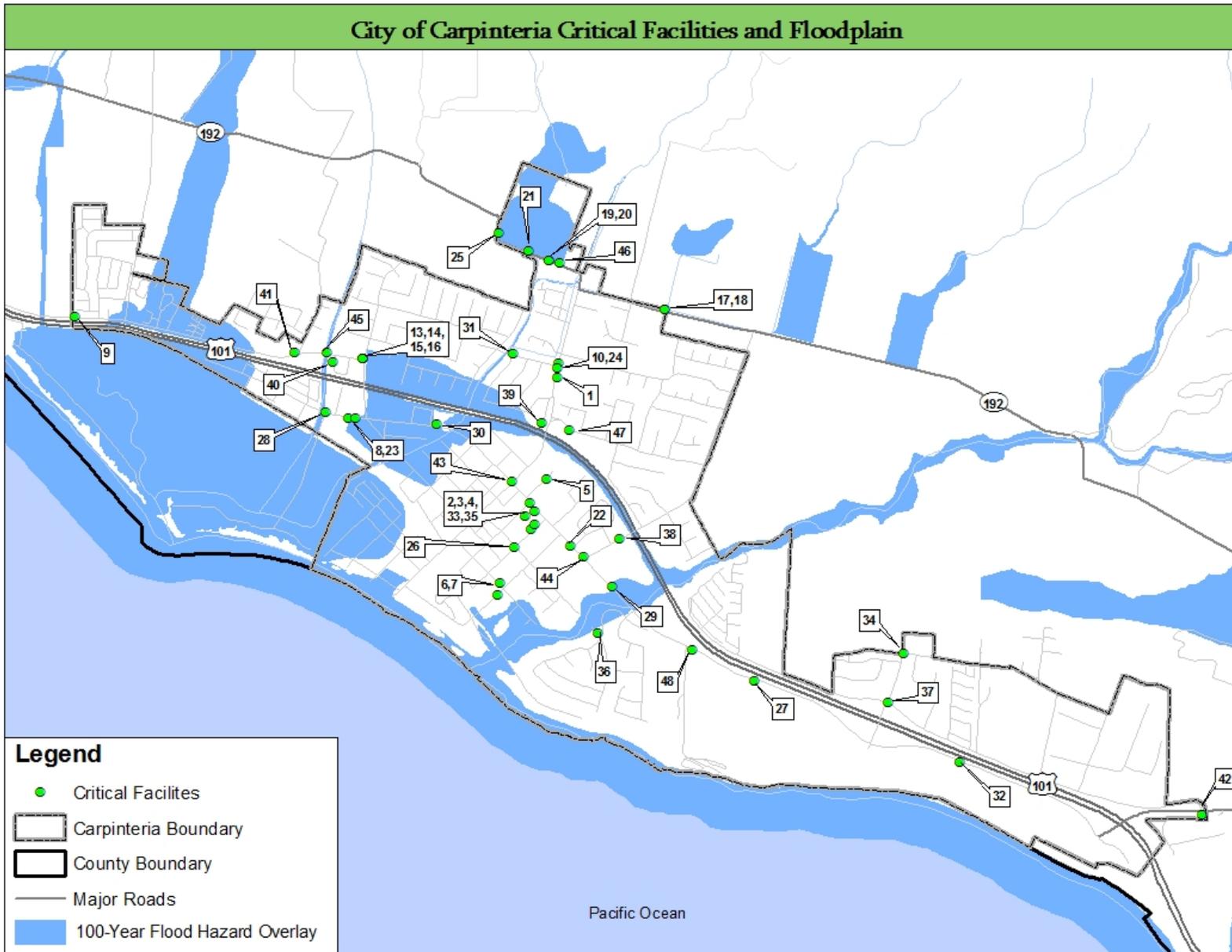
Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Flood Hazard	
							FEMA Flood Zone	Flood Overlay Zone
19	High School Well	Utilities	4859 Foothill Rd	\$ 1,500,000			Outside Floodplain	Outside Flood Overlay Zone
20	High School Well Treatment Plant	Utilities	4859 Foothill Rd	\$ 800,000			Outside Floodplain	Outside Flood Overlay Zone
21	Carpinteria High School	Education	4810 Foothill Rd	\$ 28,535,898		\$ 28,536,719	100 Year	Within Flood Overlay Zone
22	Carpinteria Middle School	Education	5351 Carpinteria Ave	\$ 14,366,233		\$ 14,366,805	Outside Floodplain	Outside Flood Overlay Zone
23	Aliso Elementary	Education	4545 Carpinteria Ave	\$ 6,457,908		\$ 6,458,376	100 Year	Within Flood Overlay Zone
24	Canalino Elementary	Education	1480 Linden Ave	\$ 10,583,606		\$ 10,584,175	Outside Floodplain	Outside Flood Overlay Zone
25	Rincon/Foothill High School	Education	4698 Foothill Rd	\$ 210,720		\$ 210,800	100 Year	Within Flood Overlay Zone
26	Carpinteria Children's Project @ Main	Education	5201 Eighth St	\$ 4,360,870		\$ 4,360,908	Outside Floodplain	Outside Flood Overlay Zone
27	City Hall (Sheriff's Substation, Maintenance)	Government	5775 Carpinteria Ave	\$ 4,084,877	\$ 351,910	\$ 4,084,907	Outside Floodplain	Outside Flood Overlay Zone
28	Bridge #51C-0143	Government	4488 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	100 Year	Within Flood Overlay Zone
29	Bridge #51C-0172	Government	5454 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	100 Year	Within Flood Overlay Zone
30	Bridge #51C-0142	Government	4692 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	100 Year	Within Flood Overlay Zone
31	Bridge #51C-0295	Government	4824 Malibu Dr	\$ 10,000,000		\$ 10,000,000	Outside Floodplain	Outside Flood Overlay Zone
32	Viola Fields Public Facilities	Government	6145 Carpinteria Ave	\$ 262,210		\$ 262,210	Outside Floodplain	Outside Flood Overlay Zone
33	Cavalli Property	Government	5103 Carpinteria Ave	\$ 1,320,927		\$ 1,320,927	Outside Floodplain	Outside Flood Overlay Zone
34	Monte Vista Park Public Facilities	Government	1100 Bailard Rd	\$ 59,810		\$ 59,810	Outside Floodplain	Outside Flood Overlay Zone
35	Veteran's Memorial Building	Government	941 Walnut Ave				Outside Floodplain	Outside Flood Overlay Zone
36	8th Street Bridge (Crossing Carpinteria Ck)	Government	5470 Calle Ocho	\$ 1,000,000		\$ 1,000,000	Outside Floodplain	Outside Flood Overlay Zone

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Flood Hazard	
							FEMA Flood Zone	Flood Overlay Zone
37	Highway 101 Corridor & Interchange	Government	1000 Bailard Ave				Outside Floodplain	Outside Flood Overlay Zone
38	Highway 101 Corridor & Interchange	Government	1115 Casitas Pass Rd				Outside Floodplain	Outside Flood Overlay Zone
39	Highway 101 Corridor & Interchange	Government	1301 Linden Ave				Outside Floodplain	Outside Flood Overlay Zone
40	Highway 101 Corridor & Interchange	Government	1234 Cramer Pl				Outside Floodplain	Outside Flood Overlay Zone
41	Highway 101 Corridor & Interchange	Government	4290 Via Real				Outside Floodplain	Outside Flood Overlay Zone
42	Highway 101 Corridor & Interchange	Government	6500 Camino Carreta				Outside Floodplain	Outside Flood Overlay Zone
43	Downtown "T" Business District	Commercial	4994 Carpinteria Ave	\$100,000,000		\$ 100,000,000	Outside Floodplain	Outside Flood Overlay Zone
44	Casitas Pass Road Business District	Commercial	1001 Casitas Pass Rd				Outside Floodplain	Outside Flood Overlay Zone
45	Santa Monica Business District	Commercial	4410 Via Real				100 Year	Within Flood Overlay Zone
46	Southern CA Edison - Substation	Utilities	4918 Foothill Rd				Outside Floodplain	Outside Flood Overlay Zone
47	Verizon	Utilities	5115 Ogan Rd				Outside Floodplain	Outside Flood Overlay Zone
48	Natural Gas Odorant (Carpinteria Oil & Gas)	Industrial	5675 Carpinteria Ave				Outside Floodplain	Outside Flood Overlay Zone

## City of Carpinteria Critical Facilities and Special Flood Hazard Areas



Source: Flood Insurance Rate Map (FIRM) Boundaries, Santa Barbara County GIS available at <http://www.countyofsb.org/itd/gis/default.aspx?id=2802>, September 15, 2009, prepared by FEMA.



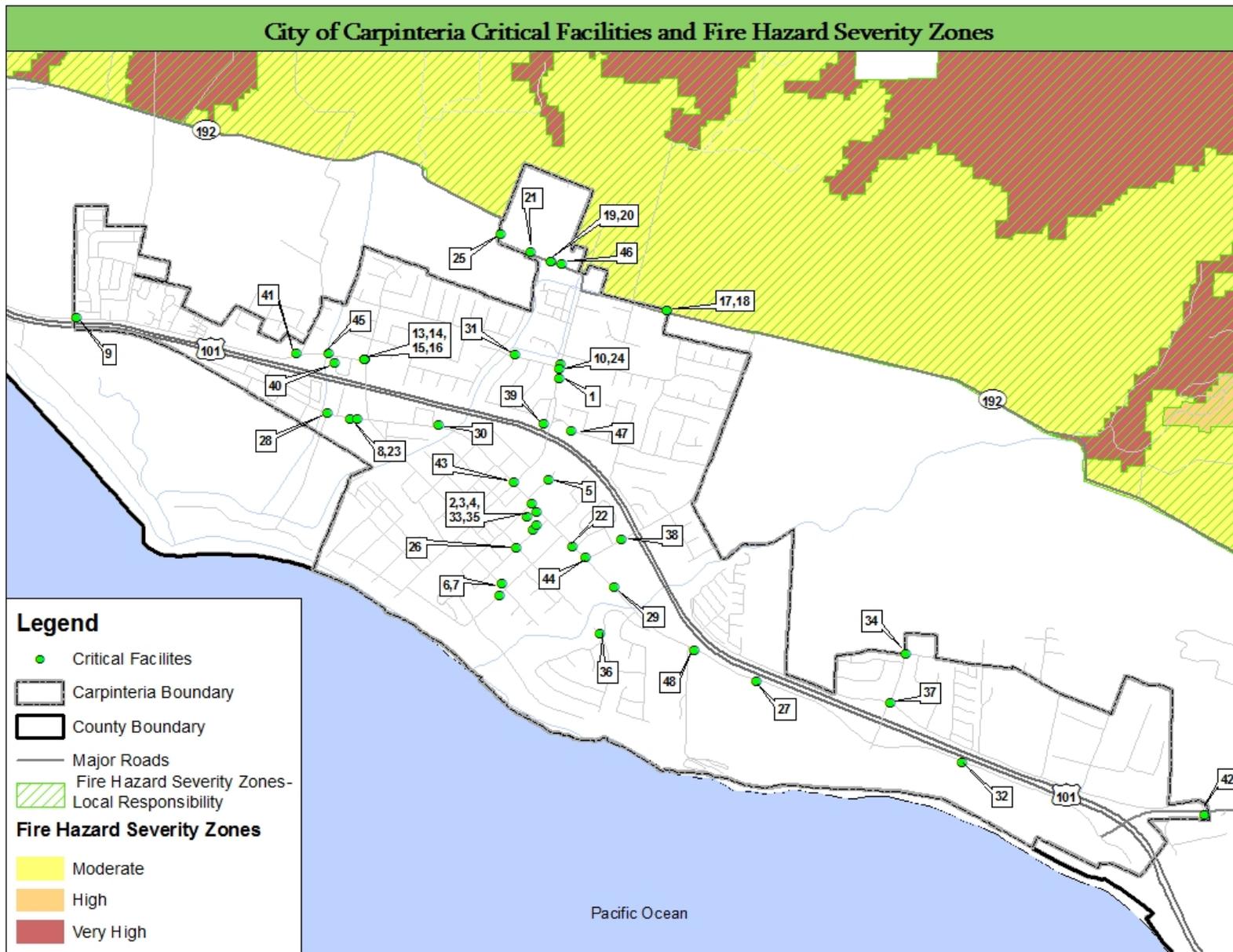
Source: Overlay – Flood Hazard, Santa Barbara County GIS, available at <http://www.countyofsb.org/itd/gis/default.aspx?id=2802>, November 23, 2010

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Fire Hazard		
							Fire Severity Zone	WUI Zone	Fire Threat
1	CUSD District Office	Education	1400 Linden Ave	\$ 781,008		\$ 781,008	Outside Fire Severity Zone	Outside WUI	Moderate
2	Carpinteria Valley Museum of History	Education	956 Maple Ave				Outside Fire Severity Zone	Outside WUI	Moderate
3	Carpinteria Public Library	Education	5141 Carpinteria Ave				Outside Fire Severity Zone	Outside WUI	Moderate
4	Carpinteria Fire Station 1	Government	911 Walnut Ave	\$ 7,000,000	\$ 150,000	\$ 7,150,000	Outside Fire Severity Zone	Outside WUI	Moderate
5	Carpinteria Summerland HQ	Government	1140 Eugenia Pl		\$ 60,000	\$ 60,000	Outside Fire Severity Zone	Outside WUI	Moderate
6	Wastewater Treatment Plant	Government	5300 Sixth St	\$ 60,000,000		\$ 60,000,000	Outside Fire Severity Zone	Outside WUI	Moderate
7	Sewage Pump Station 1	Government	546 Palm Ave	\$ 2,000,000		\$ 2,000,000	Outside Fire Severity Zone	Outside WUI	Moderate
8	Sewage Pump Station 2	Government	4527 Carpinteria Ave	\$ 1,500,000		\$ 1,500,000	Outside Fire Severity Zone	Within WUI	Moderate
9	Sewage Pump Station 4	Government	3950 Via Real	\$ 1,000,000		\$ 1,000,000	Outside Fire Severity Zone	Within WUI	Moderate
10	Sewage Pump Station 7	Government	1488 Linden Ave	\$ 5,000,000		\$ 5,000,000	Outside Fire Severity Zone	Outside WUI	Moderate
11	Water District Main Office	Government	1301 Santa Ynez Ave	\$ 1,200,000	\$ 200,000	\$ 1,400,000	Outside Fire Severity Zone	Outside WUI	Moderate
12	Water District Maintenance Building	Government	1301 Santa Ynez Ave	\$ 1,800,000	\$ 466,000	\$ 2,266,000	Outside Fire Severity Zone	Outside WUI	Moderate
13	Headquarters Well	Utilities	1301 Santa Ynez Ave	\$ 1,500,000		\$ 1,500,000	Outside Fire Severity Zone	Within WUI	Moderate
14	Headquarters Filtration Plant	Utilities	1301 Santa Ynez Ave	\$ 500,000		\$ 500,000	Outside Fire Severity Zone	Within WUI	Moderate
15	Headquarters Well Control Building	Utilities	1301 Santa Ynez Ave	\$ 700,000		\$ 700,000	Outside Fire Severity Zone	Within WUI	Moderate
16	Headquarters Well Enclosure	Utilities	1301 Santa Ynez Ave	\$ 90,000		\$ 90,000	Outside Fire Severity Zone	Within WUI	Moderate
17	El Carro Well	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Fire Severity Zone	Outside WUI	Little or No Threat
18	El Carro Well Filtration Plant	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Fire Severity Zone	Outside WUI	Little or No Threat
19	High School Well	Utilities	4859 Foothill Rd	\$ 1,500,000			Outside Fire Severity Zone	Within WUI	Moderate

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Fire Severity Zone	WUI Zone	Fire Threat
20	High School Well Treatment Plant	Utilities	4859 Foothill Rd	\$ 800,000			Outside Fire Severity Zone	Within WUI	Moderate
21	Carpinteria High School	Education	4810 Foothill Rd	\$ 28,535,898		\$ 28,536,719	Outside Fire Severity Zone	Within WUI	Moderate
22	Carpinteria Middle School	Education	5351 Carpinteria Ave	\$ 14,366,233		\$ 14,366,805	Outside Fire Severity Zone	Outside WUI	Moderate
23	Aliso Elementary	Education	4545 Carpinteria Ave	\$ 6,457,908		\$ 6,458,376	Outside Fire Severity Zone	Within WUI	Moderate
24	Canalino Elementary	Education	1480 Linden Ave	\$ 10,583,606		\$ 10,584,175	Outside Fire Severity Zone	Outside WUI	Moderate
25	Rincon/Foothill High School	Education	4698 Foothill Rd	\$ 210,720		\$ 210,800	Outside Fire Severity Zone	Within WUI	Little or No Threat
26	Carpinteria Children's Project @ Main	Education	5201 Eighth St	\$ 4,360,870		\$ 4,360,908	Outside Fire Severity Zone	Outside WUI	Moderate
27	City Hall (Sheriff's Substation, Maintenance)	Government	5775 Carpinteria Ave	\$ 4,084,877	\$ 351,910	\$ 4,084,907	Outside Fire Severity Zone	Within WUI	Moderate
28	Bridge #51C-0143	Government	4488 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Fire Severity Zone	Within WUI	Moderate
29	Bridge #51C-0172	Government	5454 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Fire Severity Zone	Within WUI	Moderate
30	Bridge #51C-0142	Government	4692 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Fire Severity Zone	Within WUI	Moderate
31	Bridge #51C-0295	Government	4824 Malibu Dr	\$ 10,000,000		\$ 10,000,000	Outside Fire Severity Zone	Outside WUI	Moderate
32	Viola Fields Public Facilities	Government	6145 Carpinteria Ave	\$ 262,210		\$ 262,210	Outside Fire Severity Zone	Within WUI	Moderate
33	Cavalli Property	Government	5103 Carpinteria Ave	\$ 1,320,927		\$ 1,320,927	Outside Fire Severity Zone	Outside WUI	Moderate
34	Monte Vista Park Public Facilities	Government	1100 Bailard Rd	\$ 59,810		\$ 59,810	Outside Fire Severity Zone	Within WUI	Moderate
35	Veteran's Memorial Building	Government	941 Walnut Ave				Outside Fire Severity Zone	Outside WUI	Moderate
36	8th Street Bridge (Crossing Carpinteria Ck)	Government	5470 Calle Ocho	\$ 1,000,000		\$ 1,000,000	Outside Fire Severity Zone	Within WUI	Moderate
37	Highway 101 Corridor & Interchange	Government	1000 Bailard Ave				Outside Fire Severity Zone	Within WUI	Moderate
38	Highway 101 Corridor & Interchange	Government	1115 Casitas Pass Rd				Outside Fire Severity Zone	Outside WUI	Moderate
39	Highway 101 Corridor & Interchange	Government	1301 Linden Ave				Outside Fire Severity Zone	Outside WUI	Moderate
40	Highway 101 Corridor & Interchange	Government	1234 Cramer Pl				Outside Fire Severity Zone	Within WUI	Moderate

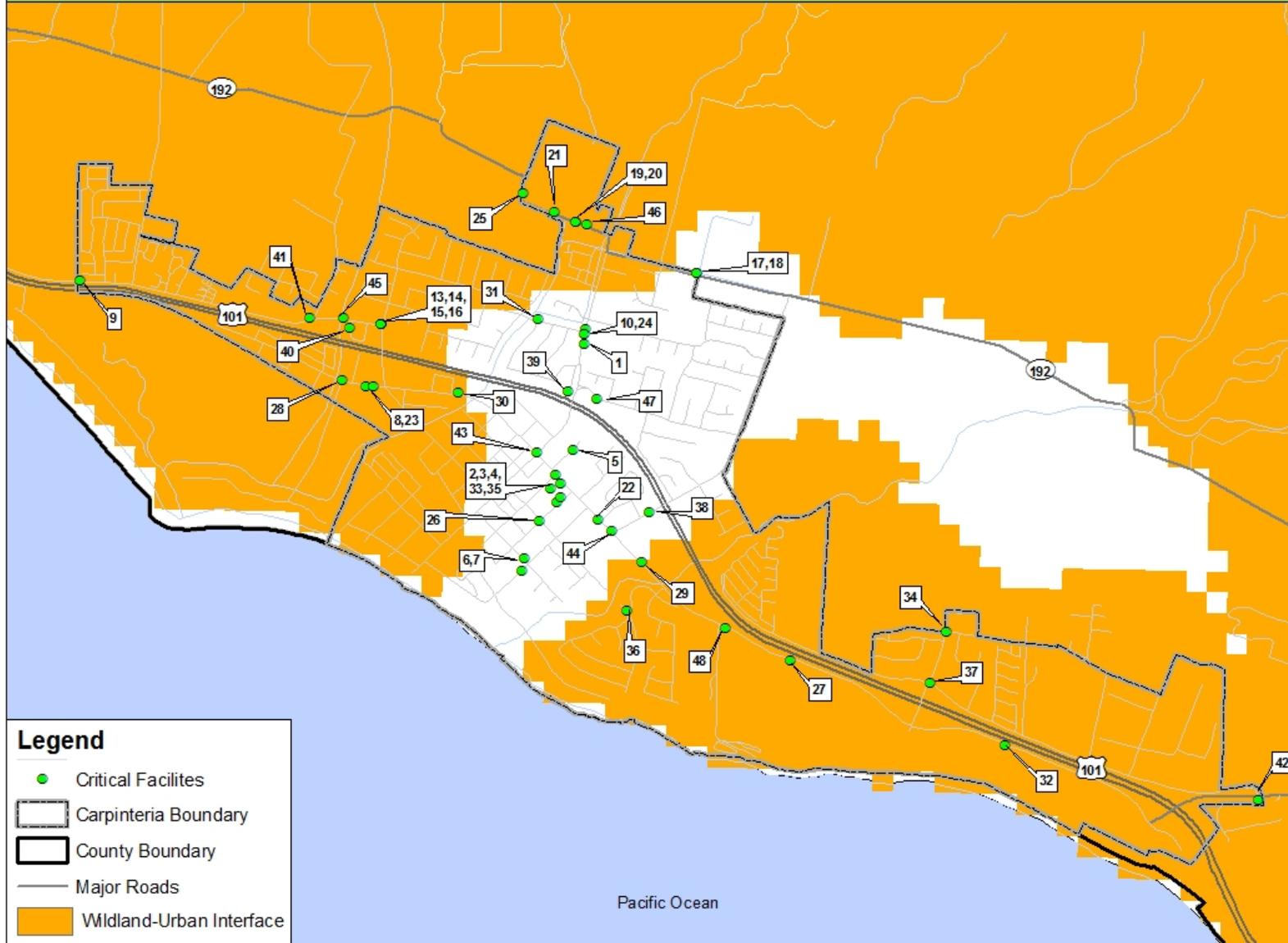
Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Fire Severity Zone	WUI Zone	Fire Threat
41	Highway 101 Corridor & Interchange	Government	4290 Via Real				Outside Fire Severity Zone	Within WUI	Moderate
42	Highway 101 Corridor & Interchange	Government	6500 Camino Carreta				Outside Fire Severity Zone	Within WUI	Little or No Threat
43	Downtown "T" Business District	Commercial	4994 Carpinteria Ave	\$100,000,000		\$100,000,000	Outside Fire Severity Zone	Outside WUI	Moderate
44	Casitas Pass Road Business District	Commercial	1001 Casitas Pass Rd				Outside Fire Severity Zone	Outside WUI	Moderate
45	Santa Monica Business District	Commercial	4410 Via Real				Outside Fire Severity Zone	Within WUI	Moderate
46	Southern CA Edison - Substation	Utilities	4918 Foothill Rd				Outside Fire Severity Zone	Within WUI	Moderate
47	Verizon	Utilities	5115 Ogan Rd				Outside Fire Severity Zone	Outside WUI	Moderate
48	Natural Gas Odorant (Carpinteria Oil & Gas)	Industrial	5675 Carpinteria Ave				Outside Fire Severity Zone	Within WUI	Moderate

## 10.5.2 Wildfire Vulnerability

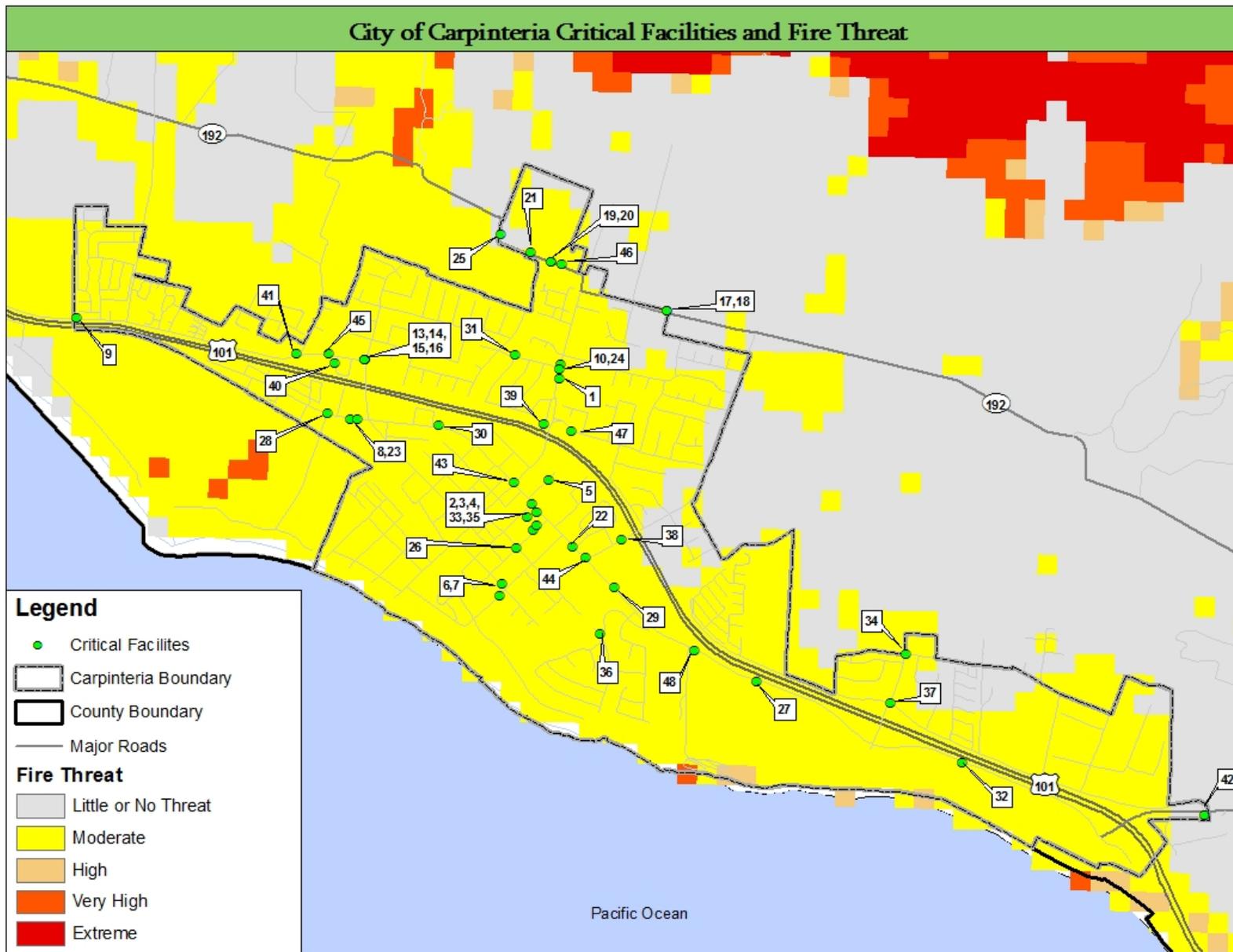


Source: County of Santa Barbara Fire GIS

## City of Carpinteria Critical Facilities and Wildland Urban Interface



Source: Wildland Urban Interface (WUI) Fire Threat, Fire and Resource Assessment Program (FRAP) available at <http://frap.cdf.ca.gov/data/frapgisdata/select.asp?theme=5>, 2003



Source: Fire Threat, Fire and Resource Assessment Program (FRAP) available at <http://frap.cdf.ca.gov/data/frapgisdata/select.asp?theme=5>, 2004

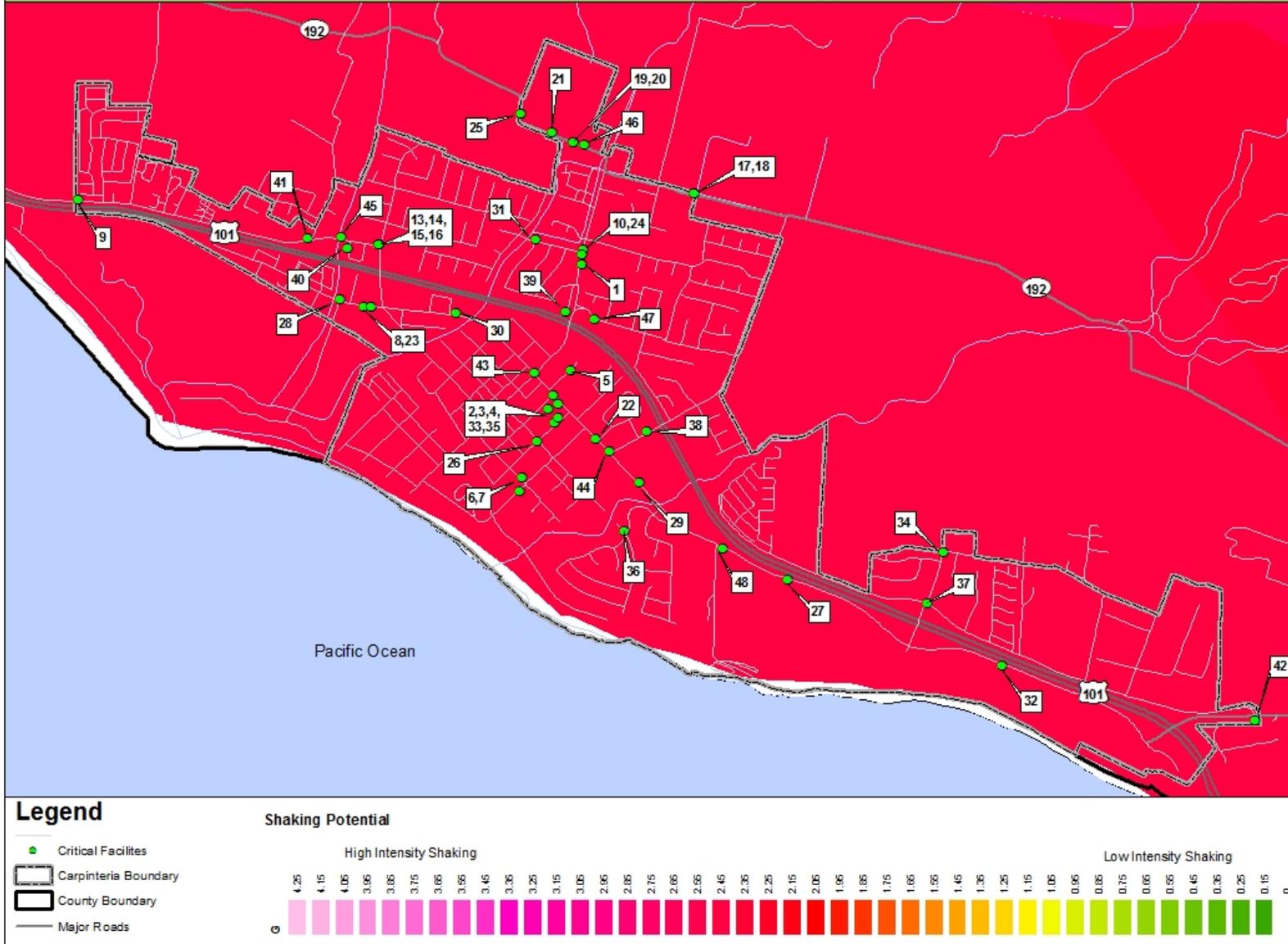
### 10.5.3 Earthquake Vulnerability

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Earthquake Hazard	
							Groundwater/ Liquefaction Severity	Ground Peak Acceleration
1	CUSD District Office	Education	1400 Linden Ave	\$ 781,008		\$ 781,008	High/High	2.45
2	Carpinteria Valley Museum of History	Education	956 Maple Ave				High/High	2.45
3	Carpinteria Public Library	Education	5141 Carpinteria Ave				High/High	2.45
4	Carpinteria Fire Station 1	Government	911 Walnut Ave	\$ 7,000,000	\$ 150,000	\$ 7,150,000	High/High	2.45
5	Carpinteria Summerland HQ	Government	1140 Eugenia Pl		\$ 60,000	\$ 60,000	High/High	2.45
6	Wastewater Treatment Plant	Government	5300 Sixth St	\$ 60,000,000		\$ 60,000,000	High/High	2.45
7	Sewage Pump Station 1	Government	546 Palm Ave	\$ 2,000,000		\$ 2,000,000	High/High	2.45
8	Sewage Pump Station 2	Government	4527 Carpinteria Ave	\$ 1,500,000		\$ 1,500,000	High/High	2.45
9	Sewage Pump Station 4	Government	3950 Via Real	\$ 1,000,000		\$ 1,000,000	High/High	2.45
10	Sewage Pump Station 7	Government	1488 Linden Ave	\$ 5,000,000		\$ 5,000,000	High/High	2.45
11	Water District Main Office	Government	1301 Santa Ynez Ave	\$ 1,200,000	\$ 200,000	\$ 1,400,000	High/High	2.45
12	Water District Maintenance Building	Government	1301 Santa Ynez Ave	\$ 1,800,000	\$ 466,000	\$ 2,266,000	High/High	2.45
13	Headquarters Well	Utilities	1301 Santa Ynez Ave	\$ 1,500,000		\$ 1,500,000	High/High	2.45
14	Headquarters Filtration Plant	Utilities	1301 Santa Ynez Ave	\$ 500,000		\$ 500,000	High/High	2.45
15	Headquarters Well Control Building	Utilities	1301 Santa Ynez Ave	\$ 700,000		\$ 700,000	High/High	2.45
16	Headquarters Well Enclosure	Utilities	1301 Santa Ynez Ave	\$ 90,000		\$ 90,000	High/High	2.45
17	El Carro Well	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Moderate/High	2.45
18	El Carro Well Filtration Plant	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Moderate/High	2.45
19	High School Well	Utilities	4859 Foothill Rd	\$ 1,500,000			High/High	2.45
20	High School Well Treatment Plant	Utilities	4859 Foothill Rd	\$ 800,000			High/High	2.45
21	Carpinteria High School	Education	4810 Foothill Rd	\$ 28,535,898		\$ 28,536,719	High/High	2.45
22	Carpinteria Middle School	Education	5351 Carpinteria Ave	\$ 14,366,233		\$ 14,366,805	High/High	2.45
23	Aliso Elementary	Education	4545 Carpinteria Ave	\$ 6,457,908		\$ 6,458,376	High/High	2.45

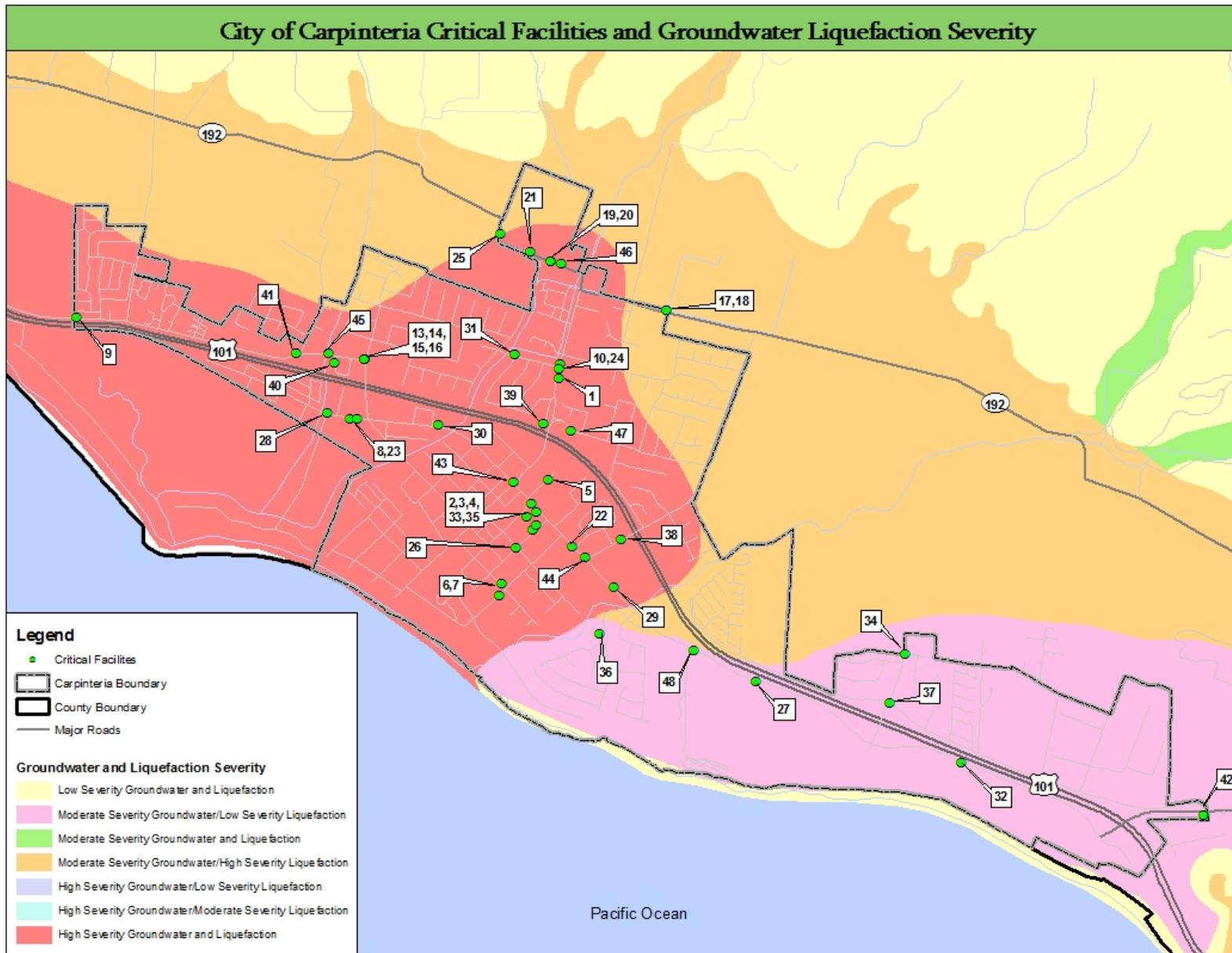
Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Earthquake Hazard	
							Groundwater/ Liquefaction Severity	Ground Peak Acceleration
24	Canalino Elementary	Education	1480 Linden Ave	\$ 10,583,606		\$ 10,584,175	High/High	2.45
25	Rincon/Foothill High School	Education	4698 Foothill Rd	\$ 210,720		\$ 210,800	High/High	2.45
26	Carpinteria Children's Project @ Main	Education	5201 Eighth St	\$ 4,360,870		\$ 4,360,908	High/High	2.45
27	City Hall (Sheriff's Substation, Maintenance)	Government	5775 Carpinteria Ave	\$ 4,084,877	\$ 351,910	\$ 4,084,907	Moderate/ Low	2.45
28	Bridge #51C-0143	Government	4488 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	High/High	2.45
29	Bridge #51C-0172	Government	5454 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	High/High	2.45
30	Bridge #51C-0142	Government	4692 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	High/High	2.45
31	Bridge #51C-0295	Government	4824 Malibu Dr	\$ 10,000,000		\$ 10,000,000	High/High	2.45
32	Viola Fields Public Facilities	Government	6145 Carpinteria Ave	\$ 262,210		\$ 262,210	Moderate/ Low	2.45
33	Cavalli Property	Government	5103 Carpinteria Ave	\$ 1,320,927		\$ 1,320,927	High/High	2.45
34	Monte Vista Park Public Facilities	Government	1100 Bailard Rd	\$ 59,810		\$ 59,810	Moderate/ Low	2.45
35	Veteran's Memorial Building	Government	941 Walnut Ave				High/High	2.45
36	8th Street Bridge (Crossing Carpinteria Ck)	Government	5470 Calle Ocho	\$ 1,000,000		\$ 1,000,000	Moderate/ Low	2.45
37	Highway 101 Corridor & Interchange	Government	1000 Bailard Ave				Moderate/ Low	2.45
38	Highway 101 Corridor & Interchange	Government	1115 Casitas Pass Rd				High/High	2.45
39	Highway 101 Corridor & Interchange	Government	1301 Linden Ave				High/High	2.45
40	Highway 101 Corridor & Interchange	Government	1234 Cramer Pl				High/High	2.45
41	Highway 101 Corridor & Interchange	Government	4290 Via Real				High/High	2.45
42	Highway 101 Corridor & Interchange	Government	6500 Camino Carreta				Moderate/ Low	2.45
43	Downtown "T" Business District	Commercial	4994 Carpinteria Ave	\$100,000,000		\$100,000,000	High/High	2.45
44	Casitas Pass Road Business District	Commercial	1001 Casitas Pass Rd				High/High	2.45
45	Santa Monica Business District	Commercial	4410 Via Real				High/High	2.45

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Earthquake Hazard	
							Groundwater/ Liquefaction Severity	Ground Peak Acceleration
46	Southern CA Edison - Substation	Utilities	4918 Foothill Rd				High/High	2.45
47	Verizon	Utilities	5115 Ogan Rd				High/High	2.45
48	Natural Gas Odorant (Carpinteria Oil & Gas)	Industrial	5675 Carpinteria Ave				Moderate/ Low	2.45

## City of Carpinteria Critical Facilities and Earthquake Ground Shake Potential



Source: Seismic Shaking Hazard, Obtained from California Geological Survey, for more information:  
<http://www.conservation.ca.gov/cgs/rghm/psha/Pages/index.aspx>, 2002.



Source: Groundwater Liquefaction, Santa Barbara County GIS, available at <http://www.countyofsb.org/itd/gis/default.aspx?id=2802>, July 15, 2010, originally prepared by Moore and Taber in 1974.

## 10.5.4 Landslide Vulnerability

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Landslide Incidence
1	CUSD District Office	Education	1400 Linden Ave	\$ 781,008		\$ 781,008	Low
2	Carpinteria Valley Museum of History	Education	956 Maple Ave				Low
3	Carpinteria Public Library	Education	5141 Carpinteria Ave				Low
4	Carpinteria Fire Station 1	Government	911 Walnut Ave	\$ 7,000,000	\$ 150,000	\$ 7,150,000	Low
5	Carpinteria Summerland HQ	Government	1140 Eugenia Pl		\$ 60,000	\$ 60,000	Low
6	Wastewater Treatment Plant	Government	5300 Sixth St	\$ 60,000,000		\$ 60,000,000	Low
7	Sewage Pump Station 1	Government	546 Palm Ave	\$ 2,000,000		\$ 2,000,000	Low
8	Sewage Pump Station 2	Government	4527 Carpinteria Ave	\$ 1,500,000		\$ 1,500,000	Low
9	Sewage Pump Station 4	Government	3950 Via Real	\$ 1,000,000		\$ 1,000,000	Low
10	Sewage Pump Station 7	Government	1488 Linden Ave	\$ 5,000,000		\$ 5,000,000	Low
11	Water District Main Office	Government	1301 Santa Ynez Ave	\$ 1,200,000	\$ 200,000	\$ 1,400,000	Low
12	Water District Maintenance Building	Government	1301 Santa Ynez Ave	\$ 1,800,000	\$ 466,000	\$ 2,266,000	Low
13	Headquarters Well	Utilities	1301 Santa Ynez Ave	\$ 1,500,000		\$ 1,500,000	Low
14	Headquarters Filtration Plant	Utilities	1301 Santa Ynez Ave	\$ 500,000		\$ 500,000	Low
15	Headquarters Well Control Building	Utilities	1301 Santa Ynez Ave	\$ 700,000		\$ 700,000	Low
16	Headquarters Well Enclosure	Utilities	1301 Santa Ynez Ave	\$ 90,000		\$ 90,000	Low
17	El Carro Well	Utilities	5315 Foothill Rd	\$1,500,000		\$ 1,500,000	Low
18	El Carro Well Filtration Plant	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Low
19	High School Well	Utilities	4859 Foothill Rd	\$ 1,500,000			Low
20	High School Well Treatment Plant	Utilities	4859 Foothill Rd	\$ 800,000			Low
21	Carpinteria High School	Education	4810 Foothill Rd	\$ 28,535,898		\$ 28,536,719	Low
22	Carpinteria Middle School	Education	5351 Carpinteria Ave	\$ 14,366,233		\$ 14,366,805	Low
23	Aliso Elementary	Education	4545 Carpinteria Ave	\$ 6,457,908		\$ 6,458,376	Low
24	Canalino Elementary	Education	1480 Linden Ave	\$ 10,583,606		\$ 10,584,175	Low
25	Rincon/Foothill High School	Education	4698 Foothill Rd	\$ 210,720		\$ 210,800	Low
26	Carpinteria Children's Project @ Main	Education	5201 Eighth St	\$ 4,360,870		\$ 4,360,908	Low
27	City Hall (Sheriff's Substation, Maintenance)	Government	5775 Carpinteria Ave	\$ 4,084,877	\$ 351,910	\$ 4,084,907	Low
28	Bridge #51C-0143	Government	4488 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Low
29	Bridge #51C-0172	Government	5454 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Low

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Landslide Incidence
30	Bridge #51C-0142	Government	4692 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Low
31	Bridge #51C-0295	Government	4824 Malibu Dr	\$ 10,000,000		\$ 10,000,000	Low
32	Viola Fields Public Facilities	Government	6145 Carpinteria Ave	\$ 262,210		\$ 262,210	Low
33	Cavalli Property	Government	5103 Carpinteria Ave	\$ 1,320,927		\$ 1,320,927	Low
34	Monte Vista Park Public Facilities	Government	1100 Bailard Rd	\$ 59,810		\$ 59,810	Low
35	Veteran's Memorial Building	Government	941 Walnut Ave				Low
36	8th Street Bridge (Crossing Carpinteria Ck)	Government	5470 Calle Ocho	\$ 1,000,000		\$ 1,000,000	Low
37	Highway 101 Corridor & Interchange	Government	1000 Bailard Ave				Low
38	Highway 101 Corridor & Interchange	Government	1115 Casitas Pass Rd				Low
39	Highway 101 Corridor & Interchange	Government	1301 Linden Ave				Low
40	Highway 101 Corridor & Interchange	Government	1234 Cramer Pl				Low
41	Highway 101 Corridor & Interchange	Government	4290 Via Real				Low
42	Highway 101 Corridor & Interchange	Government	6500 Camino Carreta				Low
43	Downtown "T" Business District	Commercial	4994 Carpinteria Ave	\$ 100,000,000		\$ 100,000,000	Low
44	Casitas Pass Road Business District	Commercial	1001 Casitas Pass Rd				Low
45	Santa Monica Business District	Commercial	4410 Via Real				Low
46	Southern CA Edison - Substation	Utilities	4918 Foothill Rd				Low
47	Verizon	Utilities	5115 Ogan Rd				Low
48	Natural Gas Odorant (Carpinteria Oil & Gas)	Industrial	5675 Carpinteria Ave				Low

## City of Carpinteria Critical Facilities and Landslide Incidence



Source: Landslide Incidence and Susceptibility in the Conterminous US, National Atlas available at <http://www.nationalatlas.gov/atlasftp.html#lsoverp>, September 2002, Prepared by USGS

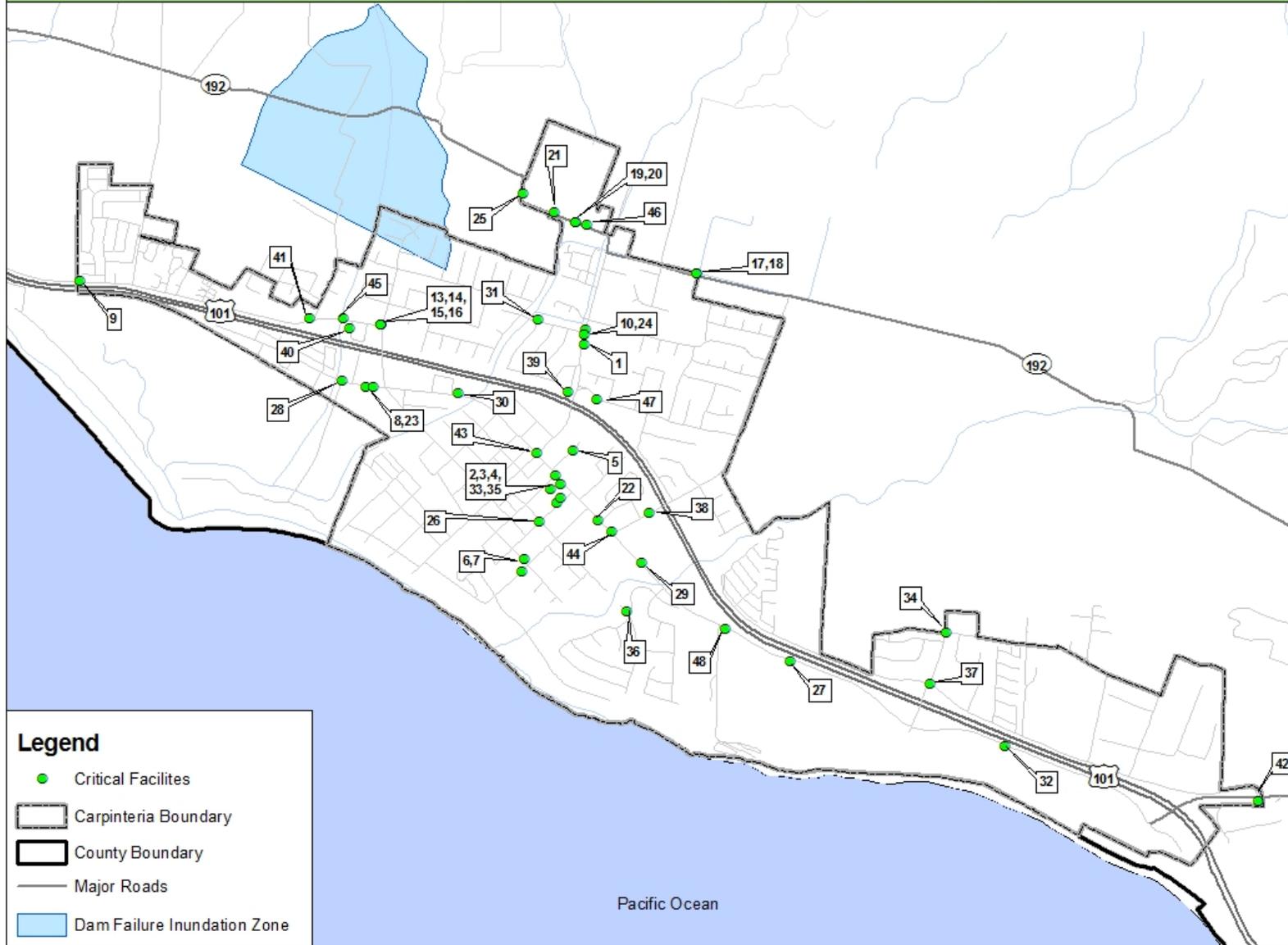
### 10.5.5 Dam Failure Vulnerability

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Dam Inundation Zone
1	CUSD District Office	Education	1400 Linden Ave	\$ 781,008		\$ 781,008	Outside Dam Inundation Zone
2	Carpinteria Valley Museum of History	Education	956 Maple Ave				Outside Dam Inundation Zone
3	Carpinteria Public Library	Education	5141 Carpinteria Ave				Outside Dam Inundation Zone
4	Carpinteria Fire Station 1	Government	911 Walnut Ave	\$ 7,000,000	\$ 150,000	\$ 7,150,000	Outside Dam Inundation Zone
5	Carpinteria Summerland HQ	Government	1140 Eugenia Pl		\$ 60,000	\$ 60,000	Outside Dam Inundation Zone
6	Wastewater Treatment Plant	Government	5300 Sixth St	\$ 60,000,000		\$ 60,000,000	Outside Dam Inundation Zone
7	Sewage Pump Station 1	Government	546 Palm Ave	\$ 2,000,000		\$ 2,000,000	Outside Dam Inundation Zone
8	Sewage Pump Station 2	Government	4527 Carpinteria Ave	\$ 1,500,000		\$ 1,500,000	Outside Dam Inundation Zone
9	Sewage Pump Station 4	Government	3950 Via Real	\$ 1,000,000		\$ 1,000,000	Outside Dam Inundation Zone
10	Sewage Pump Station 7	Government	1488 Linden Ave	\$ 5,000,000		\$ 5,000,000	Outside Dam Inundation Zone
11	Water District Main Office	Government	1301 Santa Ynez Ave	\$ 1,200,000	\$ 200,000	\$ 1,400,000	Outside Dam Inundation Zone
12	Water District Maintenance Building	Government	1301 Santa Ynez Ave	\$ 1,800,000	\$ 466,000	\$ 2,266,000	Outside Dam Inundation Zone
13	Headquarters Well	Utilities	1301 Santa Ynez Ave	\$ 1,500,000		\$ 1,500,000	Outside Dam Inundation Zone
14	Headquarters Filtration Plant	Utilities	1301 Santa Ynez Ave	\$ 500,000		\$ 500,000	Outside Dam Inundation Zone
15	Headquarters Well Control Building	Utilities	1301 Santa Ynez Ave	\$ 700,000		\$ 700,000	Outside Dam Inundation Zone
16	Headquarters Well Enclosure	Utilities	1301 Santa Ynez Ave	\$ 90,000		\$ 90,000	Outside Dam Inundation Zone
17	El Carro Well	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Dam Inundation Zone
18	El Carro Well Filtration Plant	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Dam Inundation Zone
19	High School Well	Utilities	4859 Foothill Rd	\$ 1,500,000			Outside Dam Inundation Zone

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Dam Inundation Zone
20	High School Well Treatment Plant	Utilities	4859 Foothill Rd	\$ 800,000			Outside Dam Inundation Zone
21	Carpinteria High School	Education	4810 Foothill Rd	\$ 28,535,898		\$ 28,536,719	Outside Dam Inundation Zone
22	Carpinteria Middle School	Education	5351 Carpinteria Ave	\$ 14,366,233		\$ 14,366,805	Outside Dam Inundation Zone
23	Aliso Elementary	Education	4545 Carpinteria Ave	\$ 6,457,908		\$ 6,458,376	Outside Dam Inundation Zone
24	Canalino Elementary	Education	1480 Linden Ave	\$ 10,583,606		\$ 10,584,175	Outside Dam Inundation Zone
25	Rincon/Foothill High School	Education	4698 Foothill Rd	\$ 210,720		\$ 210,800	Outside Dam Inundation Zone
26	Carpinteria Children's Project @ Main	Education	5201 Eighth St	\$ 4,360,870		\$ 4,360,908	Outside Dam Inundation Zone
27	City Hall (Sheriff's Substation, Maintenance)	Government	5775 Carpinteria Ave	\$ 4,084,877	\$ 351,910	\$ 4,084,907	Outside Dam Inundation Zone
28	Bridge #51C-0143	Government	4488 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Dam Inundation Zone
29	Bridge #51C-0172	Government	5454 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Dam Inundation Zone
30	Bridge #51C-0142	Government	4692 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Dam Inundation Zone
31	Bridge #51C-0295	Government	4824 Malibu Dr	\$ 10,000,000		\$ 10,000,000	Outside Dam Inundation Zone
32	Viola Fields Public Facilities	Government	6145 Carpinteria Ave	\$ 262,210		\$ 262,210	Outside Dam Inundation Zone
33	Cavalli Property	Government	5103 Carpinteria Ave	\$ 1,320,927		\$ 1,320,927	Outside Dam Inundation Zone
34	Monte Vista Park Public Facilities	Government	1100 Bailard Rd	\$ 59,810		\$ 59,810	Outside Dam Inundation Zone
35	Veteran's Memorial Building	Government	941 Walnut Ave				Outside Dam Inundation Zone
36	8th Street Bridge (Crossing Carpinteria Ck)	Government	5470 Calle Ocho	\$ 1,000,000		\$ 1,000,000	Outside Dam Inundation Zone
37	Highway 101 Corridor & Interchange	Government	1000 Bailard Ave				Outside Dam Inundation Zone
38	Highway 101 Corridor & Interchange	Government	1115 Casitas Pass Rd				Outside Dam Inundation Zone
39	Highway 101 Corridor & Interchange	Government	1301 Linden Ave				Outside Dam Inundation Zone

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Dam Inundation Zone
40	Highway 101 Corridor & Interchange	Government	1234 Cramer Pl				Outside Dam Inundation Zone
41	Highway 101 Corridor & Interchange	Government	4290 Via Real				Outside Dam Inundation Zone
42	Highway 101 Corridor & Interchange	Government	6500 Camino Carreta				Outside Dam Inundation Zone
43	Downtown "T" Business District	Commercial	4994 Carpinteria Ave	\$100,000,000		\$100,000,000	Outside Dam Inundation Zone
44	Casitas Pass Road Business District	Commercial	1001 Casitas Pass Rd				Outside Dam Inundation Zone
45	Santa Monica Business District	Commercial	4410 Via Real				Outside Dam Inundation Zone
46	Southern CA Edison - Substation	Utilities	4918 Foothill Rd				Outside Dam Inundation Zone
47	Verizon	Utilities	5115 Ogan Rd				Outside Dam Inundation Zone
48	Natural Gas Odorant (Carpinteria Oil & Gas)	Industrial	5675 Carpinteria Ave				Outside Dam Inundation Zone

## City of Carpinteria Critical Facilities and Dam Failure Inundation Areas



Source: Santa Barbara County Flood Control and Water Conservation District

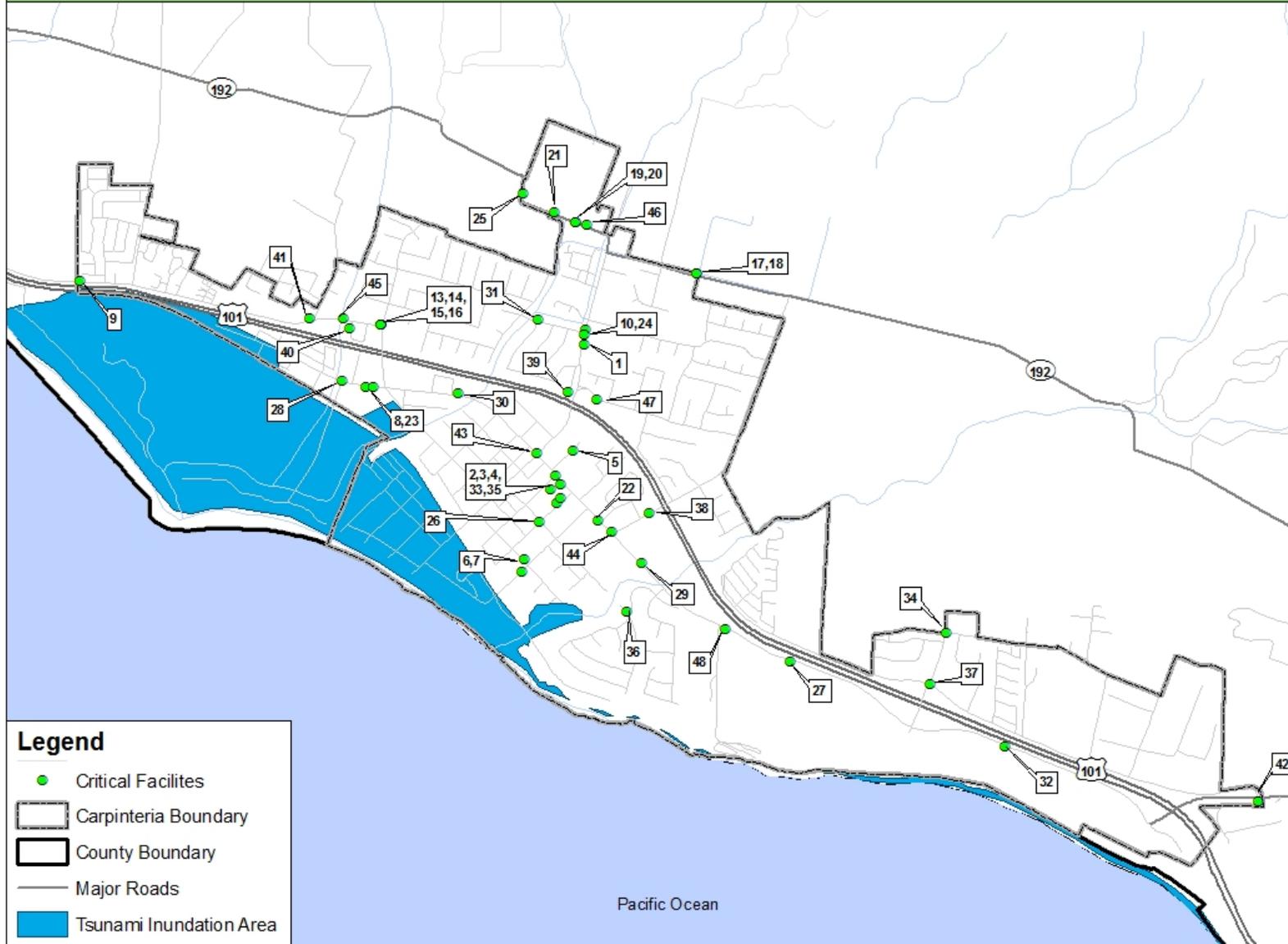
## 10.5.6 Tsunami Vulnerability

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Tsunami Inundation Area
1	CUSD District Office	Education	1400 Linden Ave	\$ 781,008		\$ 781,008	Outside Tsunami Inundation Area
2	Carpinteria Valley Museum of History	Education	956 Maple Ave				Outside Tsunami Inundation Area
3	Carpinteria Public Library	Education	5141 Carpinteria Ave				Outside Tsunami Inundation Area
4	Carpinteria Fire Station 1	Government	911 Walnut Ave	\$ 7,000,000	\$ 150,000	\$ 7,150,000	Outside Tsunami Inundation Area
5	Carpinteria Summerland HQ	Government	1140 Eugenia Pl		\$ 60,000	\$ 60,000	Outside Tsunami Inundation Area
6	Wastewater Treatment Plant	Government	5300 Sixth St	\$ 60,000,000		\$ 60,000,000	Outside Tsunami Inundation Area
7	Sewage Pump Station 1	Government	546 Palm Ave	\$ 2,000,000		\$ 2,000,000	Outside Tsunami Inundation Area
8	Sewage Pump Station 2	Government	4527 Carpinteria Ave	\$ 1,500,000		\$ 1,500,000	Outside Tsunami Inundation Area
9	Sewage Pump Station 4	Government	3950 Via Real	\$ 1,000,000		\$ 1,000,000	Outside Tsunami Inundation Area
10	Sewage Pump Station 7	Government	1488 Linden Ave	\$ 5,000,000		\$ 5,000,000	Outside Tsunami Inundation Area
11	Water District Main Office	Government	1301 Santa Ynez Ave	\$ 1,200,000	\$ 200,000	\$ 1,400,000	Outside Tsunami Inundation Area
12	Water District Maintenance Building	Government	1301 Santa Ynez Ave	\$ 1,800,000	\$ 466,000	\$ 2,266,000	Outside Tsunami Inundation Area
13	Headquarters Well	Utilities	1301 Santa Ynez Ave	\$ 1,500,000		\$ 1,500,000	Outside Tsunami Inundation Area
14	Headquarters Filtration Plant	Utilities	1301 Santa Ynez Ave	\$ 500,000		\$ 500,000	Outside Tsunami Inundation Area
15	Headquarters Well Control Building	Utilities	1301 Santa Ynez Ave	\$ 700,000		\$ 700,000	Outside Tsunami Inundation Area
16	Headquarters Well Enclosure	Utilities	1301 Santa Ynez Ave	\$ 90,000		\$ 90,000	Outside Tsunami Inundation Area
17	El Carro Well	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Tsunami Inundation Area
18	El Carro Well Filtration Plant	Utilities	5315 Foothill Rd	\$ 1,500,000		\$ 1,500,000	Outside Tsunami Inundation Area
19	High School Well	Utilities	4859 Foothill Rd	\$ 1,500,000			Outside Tsunami Inundation Area

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Tsunami Inundation Area
20	High School Well Treatment Plant	Utilities	4859 Foothill Rd	\$ 800,000			Outside Tsunami Inundation Area
21	Carpinteria High School	Education	4810 Foothill Rd	\$ 28,535,898		\$ 28,536,719	Outside Tsunami Inundation Area
22	Carpinteria Middle School	Education	5351 Carpinteria Ave	\$ 14,366,233		\$ 14,366,805	Outside Tsunami Inundation Area
23	Aliso Elementary	Education	4545 Carpinteria Ave	\$ 6,457,908		\$ 6,458,376	Outside Tsunami Inundation Area
24	Canalino Elementary	Education	1480 Linden Ave	\$ 10,583,606		\$ 10,584,175	Outside Tsunami Inundation Area
25	Rincon/Foothill High School	Education	4698 Foothill Rd	\$ 210,720		\$ 210,800	Outside Tsunami Inundation Area
26	Carpinteria Children's Project @ Main	Education	5201 Eighth St	\$ 4,360,870		\$ 4,360,908	Outside Tsunami Inundation Area
27	City Hall (Sheriff's Substation, Maintenance)	Government	5775 Carpinteria Ave	\$ 4,084,877	\$ 351,910	\$ 4,084,907	Outside Tsunami Inundation Area
28	Bridge #51C-0143	Government	4488 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Tsunami Inundation Area
29	Bridge #51C-0172	Government	5454 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Tsunami Inundation Area
30	Bridge #51C-0142	Government	4692 Carpinteria Ave	\$ 10,000,000		\$ 10,000,000	Outside Tsunami Inundation Area
31	Bridge #51C-0295	Government	4824 Malibu Dr	\$ 10,000,000		\$ 10,000,000	Outside Tsunami Inundation Area
32	Viola Fields Public Facilities	Government	6145 Carpinteria Ave	\$ 262,210		\$ 262,210	Outside Tsunami Inundation Area
33	Cavalli Property	Government	5103 Carpinteria Ave	\$ 1,320,927		\$ 1,320,927	Outside Tsunami Inundation Area
34	Monte Vista Park Public Facilities	Government	1100 Bailard Rd	\$ 59,810		\$ 59,810	Outside Tsunami Inundation Area
35	Veteran's Memorial Building	Government	941 Walnut Ave				Outside Tsunami Inundation Area
36	8th Street Bridge (Crossing Carpinteria Ck)	Government	5470 Calle Ocho	\$ 1,000,000		\$ 1,000,000	Outside Tsunami Inundation Area
37	Highway 101 Corridor & Interchange	Government	1000 Bailard Ave				Outside Tsunami Inundation Area
38	Highway 101 Corridor & Interchange	Government	1115 Casitas Pass Rd				Outside Tsunami Inundation Area
39	Highway 101 Corridor & Interchange	Government	1301 Linden Ave				Outside Tsunami Inundation Area

Map ID	Critical Facility	Type	Address	Bldg Value	Contents Value	Total Value	Tsunami Inundation Area
40	Highway 101 Corridor & Interchange	Government	1234 Cramer Pl				Outside Tsunami Inundation Area
41	Highway 101 Corridor & Interchange	Government	4290 Via Real				Outside Tsunami Inundation Area
42	Highway 101 Corridor & Interchange	Government	6500 Camino Carreta				Outside Tsunami Inundation Area
43	Downtown "T" Business District	Commercial	4994 Carpinteria Ave	\$100,000,000		\$ 100,000,000	Outside Tsunami Inundation Area
44	Casitas Pass Road Business District	Commercial	1001 Casitas Pass Rd				Outside Tsunami Inundation Area
45	Santa Monica Business District	Commercial	4410 Via Real				Outside Tsunami Inundation Area
46	Southern CA Edison - Substation	Utilities	4918 Foothill Rd				Outside Tsunami Inundation Area
47	Verizon	Utilities	5115 Ogan Rd				Outside Tsunami Inundation Area
48	Natural Gas Odorant (Carpinteria Oil & Gas)	Industrial	5675 Carpinteria Ave				Outside Tsunami Inundation Area

## City of Carpinteria Critical Facilities and Tsunami Inundation Areas



Source: Tsunami Runup Limits, Santa Barbara County GIS available at [http://www.countyofsb.org/itd/gis/default.aspx?id=2802&ekmense=e2f22c9a\\_486\\_496\\_btnlink](http://www.countyofsb.org/itd/gis/default.aspx?id=2802&ekmense=e2f22c9a_486_496_btnlink), September 2009.

## 10.6 MITIGATION STRATEGY

### 10.6.1 Mitigation Priorities

<b>Goal 1: Promote Disaster-Resistant Future Development.</b>
Objective 1.A: Facilitate the development or updating of the Comprehensive Plan, City General Plans and zoning ordinances to limit (or ensure safe) development in hazard areas.
Objective 1.B: Facilitate the adoption of building codes and development regulations that protect existing assets and require disaster resistant design for new development in hazard areas.
Objective 1.C: Facilitate consistent enforcement of the comprehensive plan, zoning ordinances, and building and fire codes
Objective 1.D: Address identified data limitations regarding the lack of information about new development and build-out potential in high hazard areas.
Objective 1.E: Educate the professional community on design and construction techniques that will minimize damage from the identified hazards
<p><i>Notes: This goal focuses on the programmatic/policy approaches to reducing risk to future new development.</i></p> <p><i>Building codes are updated on a regular basis in California. The MAC agreed the objectives for this goal are ongoing to ensure that the best and most recent building and fire codes are adopted in each of the participating jurisdictions. New building and fire codes were adopted in January 2011.</i></p> <p><i>The City's General Plan was last updated in 2003. While the objectives within Goal 1 are not explicitly stated within the City's General Plan, the City will continue to abide by mandated rules and regulations pertaining to future development. Additionally, the City will continue to support the County and Mitigation Advisory Committee and will take actionable steps to fall into alignment with these goals and objectives when appropriate.</i></p>
<b>Goal 2: Build and support capacity and commitment for existing assets, including people, critical facilities/infrastructure, and public facilities, to become less vulnerable to hazards.</b>
Objective 2.A: Increase awareness and knowledge of hazard mitigation principles and practice among local government officials.
Objective 2.B: Provide technical assistance to local governments to implement their mitigation plans.
Objective 2.C: Address data limitations identified in Hazard Profiling and Risk Assessment
Objective 2.D: Decrease the vulnerability of public infrastructure including facilities, roadways, and utilities.
Objective 2.E: Protect existing structures with the highest relative vulnerability to the effects of identified hazards through structural mitigation projects.
<p><i>Notes: This goal focuses on the programmatic and structural approaches to reducing risk to existing development. The term "local government" is used to refer to city, county, and special districts.</i></p>
<b>Goal 3: Enhance Hazard Mitigation Coordination and Communication.</b>
Objective 3.A: Educate the public to increase awareness of hazards, potential impact, and opportunities for mitigation actions.
Objective 3.B: Monitor and publicize the effectiveness of mitigation actions implemented countywide.
Objective 3.C: Participate in initiatives that have mutual hazard mitigation benefits for the County, cities,

state, tribal, and federal governments.
Objective 3.D: Encourage other organizations, within the public, private, and non-profit sectors, to incorporate hazard mitigation activities into their existing programs and plans.
Objective 3.E: Continue partnerships between the state, local, and tribal governments to identify, prioritize, and implement mitigation actions.
Objective 3.F: Continuously improve the County's capability and efficiency at administering pre- and post-disaster mitigation programs, including providing technical support to cities and special districts.
Objective 3.G: Support a coordinated permitting activities process and consistent enforcement.
<i>Note: This goal focuses on communication and coordination required for successful mitigation of risk.</i>

### 10.6.2 Mitigation Progress

The following table shows the progress of the projects identified in the City's 2007 hazard mitigation plan.

Action #	Mitigation Action Description	Status	Completion Date	Comments
GEN-1	Community Emergency Response Team (CERT) Training	Completed	Since 2007	200 CERT Graduates/Two Classes offered each year
GEN-2	Develop Disaster Storage Warehouse for Emergency Supplies	In progress	2008	Continue to upgrade supplies and materials
WDF-1	Implement Defensible Space Requirement for New Developments	Completed	2007	Each new development reviewed by IDAG to ensure defensible space requirement is met
FLD-1	Prepare Master Drainage Plan	Completed	2007	Plan to be updated in 2011
TSN/CS-1	Re-evaluate Tsunami Hazard Identification and Risk Assessment In Subsequent Updates to this Plan	Completed	Jan-09	Updated Tsunami Hazard Maps were developed in cooperation with CalEMA, CA State Geological Survey, USC Tsunami Center, and SB OES. Assessment visit by CalEMA was conducted in early 2008. Tsunami Hazard Area Maps were generated and disseminated in early 2009 for all impacted coastal communities.
GEN-1	Disaster Early Warning & Evacuation Plan	In progress	Began 2008	Reverse 911/NIXLE/Home Alert/RadioReady-On-going workshops to train residents in early warning systems

### 10.6.3 Mitigation Approach

Action #	Mitigation Action Description	Status	Completion Date	Comments
EQ-1	Work with Venoco, Inc. to research Earthquake Related Risks at the Venoco Oil and Gas Processing Facility	New		Will research regulatory requirements pertaining to earthquake preparedness by 2015
EQ-2	Work with Southern California Gas Company and the State Public Utilities Commission to review gas pipeline safety documents and to conduct public outreach related to gas pipeline safety	New		Will review safety documents and conduct public outreach and education related to pipeline safety on an ongoing basis by 2015
FLD-1	Update Master Drainage Plan	In Progress		2007 plan to be updated by 2015
FLD-2	Update Floodplain Management Ordinance	New		Will update current plan as necessary.
FLD-3	Expand participation in NFIP Community Rating System (CRS)	New		The City will work actively to expand their participation in the NFIP CRS.
FLD-4	Carpinteria Avenue Bridge Replacement	New		The Carpinteria Avenue Bridge Replacement project began in 2011.
GEN-1	Community Emergency Response Team (CERT) Training	In Progress	Ongoing since 2007	200 CERT Graduates/Two Classes offered each year
GEN-2	Create a disaster response supplies warehouse for emergency supplies at City Hall	In Progress		Will secure location and update supplies and materials - budgetary restrictions may apply
GEN-3	Provide information to residents to increase community awareness of early warning systems	In progress	Ongoing since 2008	Provide information to residents on Reverse 911/NIXLE/Home Alert/RadioReady on an ongoing basis
GEN-4	Conduct Critical Facility Audit	New		Will conduct critical facility update by 2015
GEN-5	Update Comprehensive Emergency Response Plan	New		Will update current plan by 2015
GEN-6	Conduct community disaster education programming related to general disaster	New		Will conduct public outreach related to general disaster preparedness on an ongoing basis by 2015 - presentations began in 2008

	preparedness			
WDF-3	Perform a Comprehensive Evaluation of all Wildfire Hazard Reduction Programs	New		Programs driven by federal grant moneys and ongoing in various phases based on funding
WDF-4	Firewise Community Planning and Prevention Techniques	Completed	2012	Entering final phase of a Community Wildfire Protection Plan adoption

#### 10.6.4 Implementation Plan

Mitigation Action # EQ-1		
<b>Project Description: Work with Venoco, Inc. to research earthquake related risks at the Venoco Oil and Gas Processing Facility.</b>		
<b>Applicable Hazards</b>		
<u><b>Significant</b></u>  <input type="checkbox"/> Flooding (including coastal surge) <input type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<u><b>Moderate</b></u>  <input type="checkbox"/> Landslide / Coastal Erosion	<u><b>Limited</b></u>  <input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> Regulatory agencies that oversee oil and gas processing facilities will serve as valuable resources related to information collection and dissemination.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # EQ-2</b>		
<b>Project Description:</b> Work with Southern California Gas Company and the Public Utilities Commission to review pipeline safety documents and to conduct public outreach and education related to pipeline safety.		
<b>Applicable Hazards</b>		
<u><b>Significant</b></u>  <input type="checkbox"/> Flooding (including coastal surge) <input type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<u><b>Moderate</b></u>  <input type="checkbox"/> Landslide / Coastal Erosion	<u><b>Limited</b></u>  <input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> Southern California Gas Company and the State Public Utilities Commission will serve as valuable resources related to information collection and dissemination.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # FLD-1</b>		
<b>Project Description:</b> Update Master Drainage Plan.		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input type="checkbox"/> Earthquake	<input type="checkbox"/> Landslide / Coastal Erosion	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> The Master Drainage Plan was updated in 2007. Updates will be made to the existing plan by 2015.		
<b>Responsible Department:</b> Public Works		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # FLD-2</b>		
<b>Project Description:</b> Update Floodplain Management Ordinance.		
<b>Applicable Hazards</b>		
<u><b>Significant</b></u>  <input checked="" type="checkbox"/> Flooding (including coastal surge) <input type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input type="checkbox"/> Earthquake	<u><b>Moderate</b></u>  <input type="checkbox"/> Landslide / Coastal Erosion	<u><b>Limited</b></u>  <input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> Existing plan will be updated as necessary.		
<b>Responsible Department:</b> Public Works		
<b>Target Completion Date:</b> Ongoing		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # FLD-3</b>		
<b>Project Description:</b> Expand participation in NFIP Community Rating System (CRS).		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input type="checkbox"/> Earthquake	<input type="checkbox"/> Landslide / Coastal Erosion	<input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b>		
<b>Responsible Department:</b> Public Works		
<b>Target Completion Date:</b> Ongoing		
<b>Additional Comments / Status Report:</b> The City will work actively to expand their participation in the NFIP CRS.		

<b>Mitigation Action # FLD-4</b>		
<b>Project Description:</b> Carpinteria Avenue Bridge Replacement		
<b>Applicable Hazards</b>		
<u><b>Significant</b></u>  <input checked="" type="checkbox"/> Flooding (including coastal surge) <input type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<u><b>Moderate</b></u>  <input type="checkbox"/> Landslide / Coastal Erosion	<u><b>Limited</b></u>  <input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> Federal Highway Administration – Highway Bridge Program		
<b>Responsible Department:</b> Public Works		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b> Began in 2011		

**Mitigation Action # GEN-1**

**Project Description:** Provide training opportunities for communities to prepare for effective disaster response through the Community Emergency Response Team (CERT) Program. Participation in CERT will allow individuals and groups to be prepared to serve as a crucial resource capable of performing many of the emergency functions needed in the immediate post-disaster time frame.

**Applicable Hazards****Significant**

- Flooding (including coastal surge)
- Wildfire
- Agriculture (pests and disease)
- Earthquake

**Moderate**

- Landslide / Coastal Erosion

**Limited**

- Dam Failure
- Tsunami

**Existing and Potential Resources:** The CERT Program was started in Carpinteria in 2006. Over 200 individuals have graduated from the CERT Program in Carpinteria and will serve as vital community resources. Community relationship building and program promotion has been strong and we will continue to leverage community resources to engage residents.

**Responsible Department:** Emergency Services

**Target Completion Date:** Ongoing

**Additional Comments / Status Report:**

<b>Mitigation Action # GEN-2</b>		
<b>Project Description:</b> Create a disaster response supplies warehouse for emergency supplies at City Hall.		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input checked="" type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<input checked="" type="checkbox"/> Landslide / Coastal Erosion	<input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> Work with other city jurisdictions to compile information on how they warehouse disaster response supplies at city facilities for staff and visitors.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # GEN-3</b>		
<b>Project Description:</b> Increase community awareness of early warning systems by providing residents information on Reverse 911, NIXLE, Home Alert and Radio Ready.		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input checked="" type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<input checked="" type="checkbox"/> Landslide / Coastal Erosion	<input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> We have provided early warning systems information at community disaster education presentations through <i>Don't Panic! Prepare!</i> since 2008. We will continue to utilize the Sheriff's Department as a resource to register residents for Reverse 911.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # GEN-4</b>		
<b>Project Description:</b> Audit and update the City of Carpinteria's Critical Facility list.		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input checked="" type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<input checked="" type="checkbox"/> Landslide / Coastal Erosion	<input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> The Critical Facility list was audited and updated in 2011. Updates will be made to the existing list as needed.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> 2015		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # GEN-5</b>		
<b>Project Description:</b> Update the City of Carpinteria's Emergency Response Plan.		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input checked="" type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<input checked="" type="checkbox"/> Landslide / Coastal Erosion	<input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> The Emergency Response Plan was updated in 2009. Updates will be made to the existing plan as needed.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> 2012		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # GEN-6</b>		
<b>Project Description:</b> <i>Don't Panic! Prepare!</i> is a public education and awareness campaign designed to increase preparedness at home, school and work. We will deliver emergency preparedness presentations to residents on an ongoing basis with community partners.		
<b>Applicable Hazards</b>		
<b><u>Significant</u></b>	<b><u>Moderate</u></b>	<b><u>Limited</u></b>
<input checked="" type="checkbox"/> Flooding (including coastal surge) <input checked="" type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input checked="" type="checkbox"/> Earthquake	<input checked="" type="checkbox"/> Landslide / Coastal Erosion	<input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> The <i>Don't Panic! Prepare!</i> campaign was started in 2008. Presentations and materials have already been developed. Community relationship building has been strong and we will continue to leverage community resources to reach residents and visitors with life-saving information.		
<b>Responsible Department:</b> Emergency Services		
<b>Target Completion Date:</b> Ongoing		
<b>Additional Comments / Status Report:</b>		

<b>Mitigation Action # WDF-3</b>		
<b>Project Description:</b> Perform a comprehensive evaluation of all Wildfire Hazard Reduction programs.		
<b>Applicable Hazards</b>		
<u><b>Significant</b></u>  <input type="checkbox"/> Flooding (including coastal surge) <input checked="" type="checkbox"/> Wildfire <input type="checkbox"/> Agriculture (pests and disease) <input type="checkbox"/> Earthquake	<u><b>Moderate</b></u>  <input type="checkbox"/> Landslide / Coastal Erosion	<u><b>Limited</b></u>  <input type="checkbox"/> Dam Failure <input type="checkbox"/> Tsunami
<b>Existing and Potential Resources:</b> Programs are driven by federal grant moneys and are provided in various phases on an ongoing basis based on funding.		
<b>Responsible Department:</b> Carpinteria-Summerland Fire District		
<b>Target Completion Date:</b> Ongoing		
<b>Additional Comments / Status Report:</b>		

## **10.7 PLAN MAINTENANCE**

Since the last Hazard Mitigation Plan written for the County in 2004, there has not been an official monitoring or maintenance program set in place. Even so, the County was very successful in implementing many mitigation actions. Numerous mitigation actions set forth in the 2004 plan were in progress or completed by the time of this Update. Many of these were made possible by funding after declared disasters.

The City of Carpinteria Office of Emergency Services will be responsible for ensuring that this annex is monitored on an on-going basis. The City will continue to participate in the countywide Mitigation Advisory Committee and attend the annual meeting organized by the County Office of Emergency Management to discuss items to be updated/added in future revisions of this plan.

Major disasters affecting the City of Carpinteria's community, legal changes, notices from Santa Barbara County (lead agency for the County-wide Plan), and other significant events may trigger revisions to this plan or a convening of the Local Planning Team. The City of Carpinteria local planning team, in collaboration with Santa Barbara County, will determine how often and when the plan should be updated. In order to remain eligible for mitigation grant funding from FEMA, the City is committed to revising the plan at a minimum of every five years.

The City's Coordinator of Emergency & Volunteer Services will contact the county four years after this plan is approved to ensure that the county plans to undertake the plan update process. The jurisdictions within Santa Barbara County should continue to work together on updating this multi-jurisdictional plan.

The public will continue to be involved whenever the plan is updated and as appropriate during the monitoring and evaluation process. Prior to adoption of updates, the City will provide the opportunity for the public to comment on the updates. A public notice will be published prior to the meeting to announce the comment period and meeting logistics. Moreover, the City will engage stakeholders in community emergency planning.

### **10.7.1 Point of Contact**

Comments or suggestions regarding this plan may be submitted at any time to Julie Jeakle, Volunteer & Emergency Services Coordinator, City of Carpinteria.

Contact information: 5775 Carpinteria Avenue, Carpinteria, CA 93013, [juliej@ci.carpinteria.ca.us](mailto:juliej@ci.carpinteria.ca.us), 805.684.5405.

## **10.8 CITY OF CARPINTERIA APPENDIX**

### **10.8.1 Carpinteria Attachment 1: Meeting Documentation**

This attachment includes documentation of the meetings conducted within Carpinteria's Local Planning Group separately from the County Mitigation Advisory Committee.

**Santa Barbara County Operational Area  
2011 Hazard Mitigation Plan Update  
Meeting Log**

**Agenda & Notes**

**City of Carpinteria**

**Date: December 17, 2010**

**Time: 10:30am – 11:20am**

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**Attendees: 2011 HazMit Project Team:**

- |                            |   |                            |
|----------------------------|---|----------------------------|
| <b>1. Jackie Campbell:</b> | <b>Community Development Director</b>     | <b>Planning</b>            |
| <b>2. Matt Roberts:</b>    | <b>Director of Parks &amp; Recreation</b> | <b>Repetitive Loss</b>     |
| <b>3. Kevin Silk:</b>      | <b>Assistant to the City Manager</b>      | <b>Economic Data</b>       |
| <b>4. Charlie Ebeling:</b> | <b>Public Works Director</b>              | <b>Critical Facilities</b> |
|                            |   | <b>Transportation</b>      |
|                            |   | <b>Storm Water</b>         |
| <b>5. Dave Durflinger:</b> | <b>City Manager</b>                       | <b>Emergency Mgmt</b>      |
| <b>6. Kris McGuire:</b>    | <b>Coordinator of Emergency Services</b>  | <b>Emergency Mgmt</b>      |

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**Discussion Topics:**

We reviewed the Data Collection List with Dewberry consultant, Corinne Barthsire to gain an understanding of what Dewberry wanted to receive from the City's Hazard Mitigation team. We agreed to:

- Supply the links to planning, zoning and geographic information from our City web site documents,
- Scan and send documents such as Capital Improvement Plans and others,
- Draft original documents relating to previous hazards, disaster assistance data, and repetitive loss documentation, and current mitigation efforts,
- Provide additional self regulatory information pertinent to hazard mitigation.

It was agreed that information prior to 1965 would not be submitted because Carpinteria was not incorporated until that year.

It was agreed that National Flood Insurance Data, the number of community insurance policies will not be submitted, but repetitive property loss and the associated dollar amounts could be provide by Matt Roberts for the Beach Community area.

Historical Preservation Plans will not be delivered; currently not applicable for Carpinteria.

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**Meeting Outcomes:**

**Assignments to be completed by:**

**December 22<sup>nd</sup>:** Forward requested materials to Dewberry; Hazard Mitigation Team Members; Review Hazard Rankings; Mitigation Action Status; Recent Disaster Documentation

**January 2011:** Disaster History; Critical Facilities; Repetitive Loss and Dollar Amounts; Local Economic Data; Floodplain Delineation Map

**Santa Barbara County Operational Area  
2011 Hazard Mitigation Plan Update  
Meeting Log**

**Agenda & Notes**

**Date: May 26, 2011**

**Time: 12.00**

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**Attendees:**

R. Abrams, SB Co OES  
Kris Maguire, Carpinteria

**Discussion Topics:**

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Critical Facilities and City Annex review

**Meeting Outcomes:**

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Discussed identifying critical facilities in Carpinteria and documenting meetings with city agency staff.

Discussed review and comment on city specific annexes.

**Santa Barbara County Operational Area  
2011 Hazard Mitigation Plan Update  
Meeting Log**

**Agenda & Notes**

**City of Carpinteria**

**Date: 12/19/2011**

**Time: 1:00-2:00pm**

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**Attendees:**

Charlie Ebeling – Director of Public Works  
Julie Jeakle – Volunteer & Emergency Services Coordinator  
Melissa Angeles – Public Works Administrative Aide

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**Discussion Topics:**

- Review draft plan and tasks to be completed.
- Divide tasks into appropriate departments.
- Establish a submittal deadline.

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**Meeting Outcomes:**

- We reviewed the draft plan to gain an understanding of what information was needed from each department.
- Tasks were divided amongst each department.
- January 20, 2012 was established as the submittal deadline to Dewberry.

**Santa Barbara County Operational Area  
2011 Hazard Mitigation Plan Update  
Meeting Log**

**Agenda & Notes**

**City of Carpinteria**

**Date: 1/11/2012**

**Time: 11:00am-1:00pm**

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**Attendees:**

Charlie Ebeling – Director of Public Works  
Julie Jeakle – Volunteer & Emergency Services Coordinator  
Melissa Angeles – Public Works Administrative Aide

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**Discussion Topics:**

- Review Mitigation Action Status spreadsheet and prioritize/rate each Action Item.
- New project identification
- Discuss future monitoring of the plan

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**Meeting Outcomes:**

- Rated and prioritized each Mitigation Action Item and provided status updates for each item that was in the 2007 plan.
- Identified new projects that will be included in the Mitigation Action Status spreadsheet.
- Determined how the City will keep monitoring the plan in the future.

**Santa Barbara County Operational Area  
2011 Hazard Mitigation Plan Update  
Meeting Log**

**Agenda & Notes**

**City of Carpinteria**

**Date: 1/19/2012**

**Time: 11:30am-12:30pm**

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**Attendees:**

Charlie Ebeling – Director of Public Works  
Julie Jeakle – Volunteer & Emergency Services Coordinator  
Melissa Angeles – Public Works Administrative Aide

**Discussion Topics:**

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- Finalize Mitigation Action Status spreadsheet
- Finalize Implementation Plans for each Action Item
- Finalize draft for submittal to Dewberry

**Meeting Outcomes:**

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- Prioritized remaining projects on Mitigation Action Status spreadsheet and created Implementation Plans for each item.
- Finalized draft for submittal to Dewberry.

## 10.8.2 Carpinteria Attachment 2: Outreach Materials

This attachment includes website postings, press releases, and newspaper articles demonstrating the City's efforts to engage public and interested stakeholders in the mitigation planning process.



April 26, 2011

## **Santa Barbara County Hazard Mitigation Plan** **Public Survey**

Is your home or office building susceptible to damage from earthquakes, wildfires, or floods? Do you want to recover more quickly from disasters and prevent future damage from these and other natural hazards? Your participation can make our communities more resilient. We know you are busy and respectfully request a few moments of your time to respond to the brief survey below.

Please complete this survey and **return it to the front office of Carpinteria Children's Project at Main no later than Thursday, April 28<sup>th</sup>.**

This survey is also available online in both English and Spanish at <http://countyofsb.org/ceo/oes>.

Thank you for your time and cooperation.

Kristin McGuire  
Coordinator of Emergency & Volunteer Services  
City of Carpinteria  
5775 Carpinteria Avenue  
Carpinteria, CA 93013  
805 684-5405 x401



26 de Abril de 2011

## **Plan de Mitigación de Riesgo del Condado de Santa Bárbara** **Encuesta Pública**

¿Son susceptibles su hogar o edificio de oficinas a daños causados por terremotos, fuegos o inundaciones? ¿Quiere recuperarse más rápidamente de un desastre y prevenir daños causados por esos y otros riesgos naturales? Su participación puede hacer nuestras comunidades más resistentes a estos riesgos. Sabemos que usted está ocupado, y por ello, respetuosamente solicitamos unos minutos de su valioso tiempo para llenar esta breve encuesta.

Por favor complete esta encuesta y **regrésela a la oficina de Carpinteria Children's Project at Main. El último día para regresarla es el Jueves, 28 de Abril.**

Esta encuesta está disponible en línea en inglés y español en <http://countyofsb.org/ceo/oes>.

Gracias por su tiempo y cooperación.

Kristin McGuire  
Coordinadora de Servicios Voluntarios y de Emergencias  
Ciudad de Carpinteria  
5775 Carpinteria Avenue  
Carpinteria, CA 93013  
805 684-5405 x401

### 10.8.3 References

#### Emergency Operations Plan

<http://www.carpinteria.ca.us/PDFs/Emer%20Oper%20Plan.pdf>

#### General Plan (Local Coastal Land Use Plan & Environmental Impact Report)

[http://www.carpinteria.ca.us/PDFs/cd\\_GP%20Annual%20Report.pdf](http://www.carpinteria.ca.us/PDFs/cd_GP%20Annual%20Report.pdf) (Update)

[http://www.carpinteria.ca.us/PDFs/cd\\_General%20Plan.pdf](http://www.carpinteria.ca.us/PDFs/cd_General%20Plan.pdf) (Original)

#### Zoning District Map

[http://www.carpinteria.ca.us/PDFs/cd\\_zoning%20map.pdf](http://www.carpinteria.ca.us/PDFs/cd_zoning%20map.pdf)

#### Land Use Map

[http://www.carpinteria.ca.us/PDFs/cd\\_Land%20Use%20Map.pdf](http://www.carpinteria.ca.us/PDFs/cd_Land%20Use%20Map.pdf)

#### Storm Water Management Plan

[http://www.carpinteria.ca.us/PDFs/pw\\_2009%20SWMP.pdf](http://www.carpinteria.ca.us/PDFs/pw_2009%20SWMP.pdf)

#### New Projects (Housing Plans)

[http://www.carpinteria.ca.us/edd/new\\_projects.shtml](http://www.carpinteria.ca.us/edd/new_projects.shtml)

#### Cumulative Projects List (Future Development)

[http://www.carpinteria.ca.us/PDFs/cd\\_Cumulative%20Projects.pdf](http://www.carpinteria.ca.us/PDFs/cd_Cumulative%20Projects.pdf)

#### Economic Profile

[http://www.carpinteria.ca.us/edd/economic\\_profile.shtml](http://www.carpinteria.ca.us/edd/economic_profile.shtml)