



Welcome to the City of Grand Terrace

Local Hazard Mitigation Plan (LHMP)

This webpage serves as an information source and document repository for City of Grand Terrace Local-Hazard Mitigation Plan. The City of Grand Terrace Hazard Mitigation Plan must be updated every five years to ensure the plan remains current with natural hazard events and maintains eligibility for State and Federal Hazard Mitigation Grant funding. This webpage will remain permanently active to document past, current and future hazard mitigation planning efforts for the public and City of Grand Terrace officials alike.

As always, the City of Grand Terrace's Local Hazard Mitigation (LHMP) Project Team is seeking the public's help and input during LHMP Update processes. If you have disaster related stories and/or photographs that you would like to share, or you have comments or other information pertaining to natural hazard mitigation and the planning process, please send them to:

Haide Aguirre – haguirre@grandterrace-ca.gov

Any information or feedback that you can provide is both helpful and appreciated!





What is Hazard Mitigation?

The term Hazard Mitigation describes actions that communities can take to help reduce or eliminate long-term risks caused by natural disasters. Natural Hazards in the City of Grand Terrace can include flooding, wildfire, landslides, earthquake, and drought. During the planning process, prioritization will be given to the hazards within the City of Grand Terrace that are most likely to occur.

Hazard mitigation planning and projects can create a safer City of Grand Terrace by reducing loss of life and property damage associated with future disasters. Each dollar spent on mitigation can save the City of Grand Terrace an average of four dollars!

As we plan for new development and improvements to existing infrastructure, mitigation can and should be an important component of the planning effort. That extra resiliency will help citizens bounce back from that worst case flood, fire or storm more quickly.

Mitigation activities can be developed before a disaster occurs, however after a disaster, hazard mitigation assessment and planning is an essential activity to prevent disaster amnesia. Oftentimes after disasters, repairs and reconstruction are

completed in such a way as to simply restore damaged property to pre-disaster conditions. These efforts may “get things back the norm”, but the replication of pre-disaster conditions may result in a repetitive cycle of damage and reconstruction. Hazard mitigation planning in the City of Grand Terrace can break this repetitive cycle by producing less vulnerable conditions through post-disaster repairs and disaster-smart reconstruction.



Hazard Mitigation Breaks the Cycle

With inflation and the cost of materials on the rise, constant reconstruction is a continued strain on already stressed City of Grand Terrace budgets. Hazard mitigation planning and related grant funding break the expensive cycle of damage and reconstruction by taking a long-term view of better community and land-use planning, of which citizen action is central and necessary.

What Are the Benefits?

- Reduces the loss of life, property, essential services, critical facilities and economic hardship.
- Reduces short-term and long-term recovery and reconstruction costs.
- Increases cooperation and communication within the community through the planning process.
- Increases potential for state and federal funding for pre-disaster and recovery projects within the City.

What Types of Mitigation Techniques Can Be Utilized?

Hazard mitigation actions are commonly broken into six different categories:

- Prevention – Keep hazard risk from getting worse.

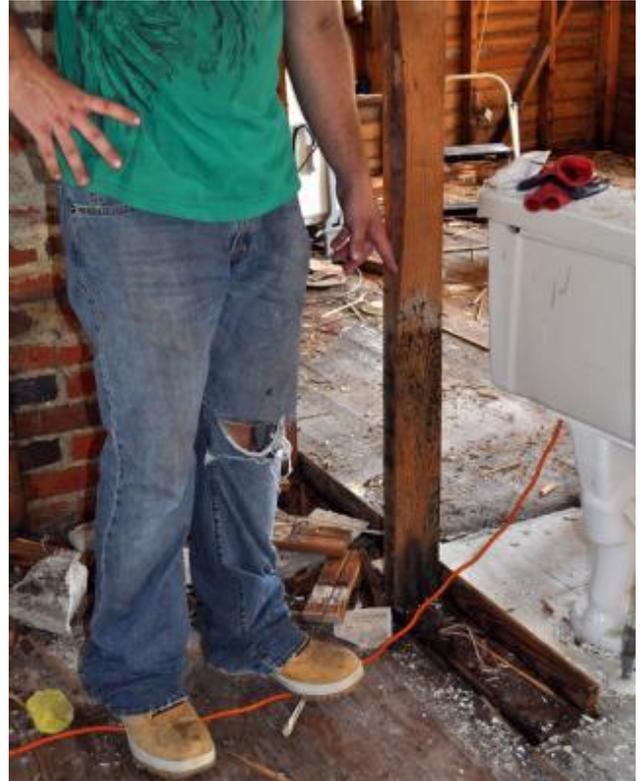


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- Property Protection – Modify existing development subject to hazard risk.
- Public Education & Awareness – Inform people about potential hazards and mitigation actions.
- Natural Resource Protection – Identify the benefits of the indigenous and natural functions of the area to take advantage of the protection it provides, reduce effects of hazards & improve quality of environment.
- Emergency Services – Actions taken to ensure continuity of emergency services.
- Structural Projects – Manmade structures or improvements to control hazards.

Common mitigation actions developed by communities include the following:

- Retrofitting of structures & design of new construction, such as elevating or floodproofing a home or building.
- Enforcement of building codes, floodplain management codes and environmental regulations.
- Public safety measures such as continual maintenance of roadways, culverts and drainage ditches.
- Acquisition of relocation of structures, such as purchasing buildings located in a floodplain.
- Acquisition of hazard prone lands in their undeveloped state to ensure they remain so.
- Protecting critical facilities and infrastructure from future hazard events.
- Mitigation, disaster recovery and Continuity of Operations (COOP) planning.
- Development and distribution of outreach materials related to hazard mitigation.
- Deployment of warning systems.





About the Project

What is the Purpose?

The purpose of the current FY2016 planning process is to update the City of Grand Terrace existing local hazard mitigation plan (LHMP). The LHMP will be updated by using the most current information and data, conducting a thorough vulnerability analysis, and revising community priorities and subsequent mitigation actions.

Objectives:

- Provide the public opportunities throughout the plan development and drafting process to provide input, taking special care to make the plan and outcome relevant to the impacted community.
- Update the risk assessment using the most recent disaster data and information.
- Update hazard mitigation goals, objectives and actions as they relate to reducing loss of life and property from natural and human-made hazards.
- Obtain state and federal approval of the updated plan.

What is a Multi-Hazard Mitigation Plan?

The plan is an official statement of the City of Grand Terrace's hazards, vulnerability analysis, and mitigation strategy. The result of a collaborative multi-agency and citizen planning process. As a living document, it guides implementation activities to achieve the greatest reduction of vulnerability, which results in saved lives, reduced injuries, reduced property damages, and protection for the environment.

Why have a Multi-Hazard Mitigation Plan?

To ensure public consensus through a planning process on mitigation actions that best suit the community. Allows communities to focus efforts and limited resources on the most highly desirable mitigation projects. The City of Grand Terrace must have a State and federally approved plan to apply for and receive mitigation grants. These grants can augment local mitigation activities already underway and future planned activities too. Ultimately, these actions reduce vulnerability and communities are able to recover more quickly from disasters.



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When can I get involved?

If you are interested in becoming involved in our Planning/ Stakeholder Committee, please e-mail:

Assistant Planner Haide Aguirre at:

haguirre@grandterrace-ca.gov

Upcoming Events.

Stay tuned for more information about the City's Local Hazard Mitigation Plan.



How is the Multi-Hazard Mitigation Plan Update Process Completed?

Local officials develop and adopt mitigation plans to meet the requirements of the [Stafford Act](#). The [Multi-Hazard Mitigation Planning Guidance](#) provides the official guidance on these requirements and procedures for approval of hazard mitigation plans. The core steps in the graphic below show the process to complete a mitigation plan.

STEP 1: Organize Resources

Relevant studies, plans, and reports are collected along with communications resources that allow the public to be involved throughout the planning process. A LHMP Planning Team is "built" that consists of local emergency management, planning staff, residents, business, property owners, and tenants in the floodplain and other known hazard areas, as well as other stakeholders in the community (such as business leaders, civic groups, academia, non-profit organizations, major employers and other interested parties).

STEP 2: Assess Risks

Location and geographic extent of natural and human-made hazards that can affect the City of Grand Terrace along with their impacts and future probability is identified. Scientific and anecdotal evidence of past events is collected and evaluated the losses the community has sustained and hazards are ranked high to low.

STEP 3: Develop or Update the Mitigation Strategy

City of Grand Terrace capabilities in emergency management, the National Flood Insurance Program (NFIP), planning and regulatory authority, administrative and technical knowledge, finances, and politics are assessed. Based upon capabilities and the risk assessment a prescription of hazard mitigation activities will be explained and developed. During this phase existing goals, objectives, and actions are evaluated and updated as needed. The LHMP Planning Team defines appropriate mitigation techniques, and chooses and prioritizes mitigation actions and projects in the Mitigation Action Plan.

STEP 4: Implementation and Maintenance Strategy Development

The LHMP is a living document that must be regularly reviewed, updated, and maintained. A schedule including responsible parties or agencies involved with monitoring, evaluating, and updating the plan during its five-year cycle is prepared. A process for integrating the updated Mitigation Strategy into existing plans and reports should be outlined and a plan for continued public outreach and participation must also be determined.

STEP 5: Draft the Plan (Cal OES Submittal)

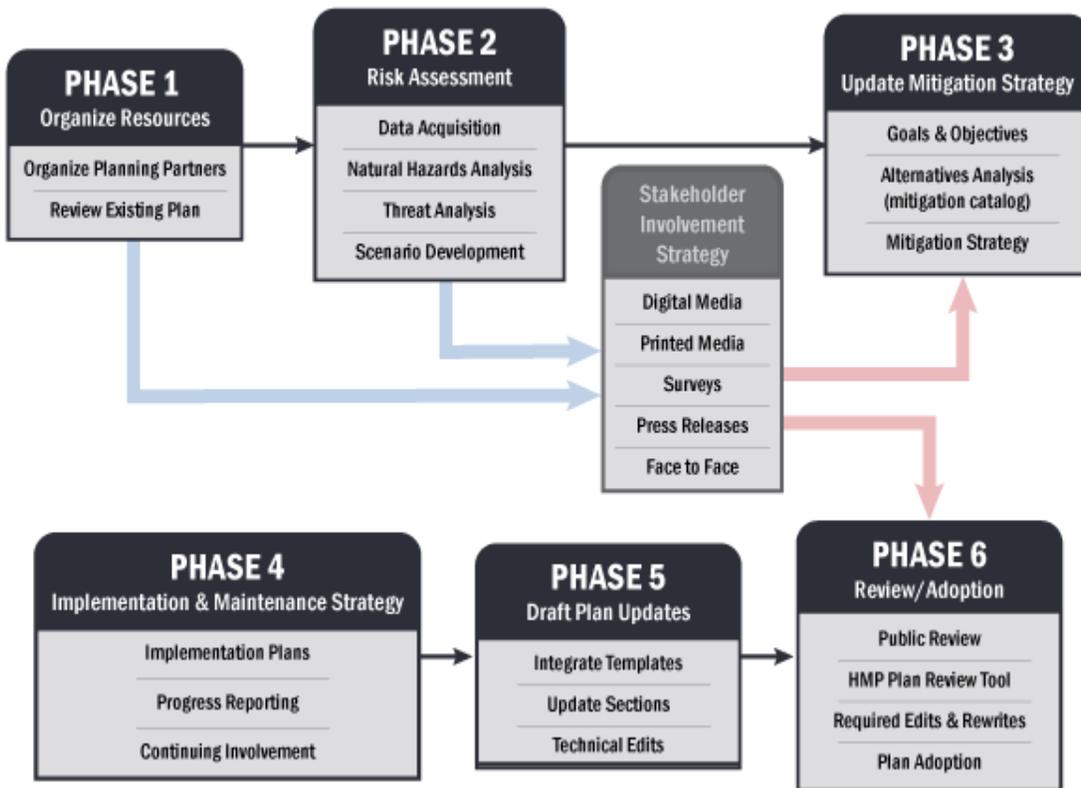
Once the Risk Assessment and mitigation strategy is updated, the LHMP Planning Team will update all information, data, and associated narratives into an Administrative Draft LHMP and will prepare all sections in accordance with DMA 2000, FEMA's 44 CFR Part 201 and 206, and any new LHMP Guidance from Cal OES hazard mitigation reviewers.



STEP 6: Plan Review and Adoption

The Draft LHMP Update is made available for public comment then submitted to the California Emergency Management Agency and the Federal Emergency Management Agency for review and approval. Once the LHMP Update has been determined to meet all state and federal requirements and receives official approval it should be adopted by the City of Grand Terrace.

ADD LINK TO DRAFT PLAN ONCE AVAILABLE.





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Planning Team

The planning team consist of City of Grand Terrace project managers and a LHMP Planning Committee. The LHMP Planning Committee consists of local emergency managers, health officials, fire department staff, planning staff, as well as other stakeholders in the community. In addition to interested residents, the following agencies and departments are involved or supporting LHMP Update process:

- G. Harold Duffey – City Manager
- Sandra Molina – Planning & Development Services Director
- Yanni Demitri –Public Works Director
- Cynthia Fortune-Finance Director
- Linda Phillips – Child Care Director
- Barrie Owens –Senior Code Enforcement Officer
- Haide Aguirre –Assistant Planner
- Dan Wooters –San Bernardino County Fire
- Sue Taylor – Emergency Operations Center Volunteer
- Hanni Bennett – Emergency Operations Center Volunteer
- Becky Giroux – Resident

In addition to stakeholder input, a LHMP Planning Committee is used to guide the process and ensure the mitigation plan meets the goals of the City of Grand Terrace and the State and Federal Hazard Mitigation Plan requirements. The Planning Committee:

- Attends/actively participates in a series of structured coordination meetings
- Assists in the collection of valuable local information and other requested data
- Makes decisions on plan process and content
- Identifies mitigation actions for the LHMP
- Reviews/provides comments on plan drafts
- Coordinates/participates in public input process

Feel free to explore Planning Team Meeting Content below!

Planning Committee Meetings

Click here to view: LHMP [Kick-off PowerPoint](#)



Risk Assessment

In accordance with FEMA requirements, risk assessment planning process identifies the natural hazards affecting the City of Grand Terrace and assesses the vulnerability from the identified hazards. Results from this phase in the planning process will form the foundation for the subsequent mitigation actions for reducing risk and potential losses in the City of Grand Terrace.

Click here to view: [Hazard Maps](#)

Hazard Identification

The risk assessment begins with the identification of hazards which could potentially affect the City of Grand Terrace. During the plan update process we re-establish information about prevalent natural hazards and prepare a preliminary list of hazards based upon the City of Grand Terrace's previously adopted LHMP, stakeholder input, and other documentation. The preliminary hazard list of for LHMP Update includes:

- Earthquakes
- Landslides
- Flooding
- Climate Change
- Wildfires

Hazard Profiling

The LHMP Planning Committee worked with the City departments and other jurisdictions to re-establish profiles for the FY2016 Hazard Mitigation Plan. Hazard profiles provide a standardized method to explain each hazard in terms of:

- Definition
- Regulations / Policies
- Location/Extent
- Magnitude/Severity
- Probability of Future Occurrences

During the hazard profiling process we review and assess existing plans, studies, other technical reports, and create hazard maps with newly acquired data and share them with stakeholders and the public to determine if the hazards identified are still valid. The project management team will update the hazard profiles to reflect any new hazard events and provide information in a FEMA preferred / required hazard profile format.

Draft Plan

Once the Risk Assessment and mitigation strategy is updated, the LHMP Planning Team will update all information, data, and associated narratives into an Administrative Draft LHMP and will prepare all sections in accordance with



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DMA 2000, FEMA's 44 CFR Part 201 and 206, and any new LHMP Guidance from Cal OES hazard mitigation reviewers. Plan Sections will include:

Bullet Point Sections Hear:

- Intro
- Community Profile
 - Geography/Environment
 - Community Facts
 - Population and Demographics
 - Land Use/Development Trends
- What's New
- Planning Process
- Risk Assessment
- Mitigation Strategy
- Plan Maintenance

The LHMP Planning Process Section will be updated to include the review and analysis of the previous LHMP, the LHMP Planning Committee and public involvement results, and review/incorporation of previous studies, plans, technical documents, distribution list of LHMP recipients etc.

The **Risk Assessment and Mitigation Strategy sections** will be updated to include new analysis, updated mitigation measures that reflect current problems and the City of Grand Terrace capabilities to address those problems.

The **Plan Maintenance Section** will include new maintenance procedures for scheduled monitoring, evaluating, and updating the HMP based upon stakeholder engagement and defined reporting roles.

The plan will also include easy to use forms the LHMP Planning Committee can use to document their annual meetings, review the LHMP each year, and documents changes made to mitigation actions, and/ or public outreach completed.

Appendices will include all documentation compiled to support the planning process throughout. Once all sections are completed, The LHMP Planning Team will compile the plan into an Administrative Draft LHMP and submit to the LHMP Planning Committee for review. After the two-week City Review Period, the LHMP Planning Team will incorporate any comments to prepare the Public Review Draft.

Plan Review and Revision

Once the Public Review Draft is completed, it will be available for public review and comment through the City of Grand Terrace Hazard Mitigation Website and hard copies will be made available at City Hall 22795 Barton Rd.

After the public review and comment period, the Planning Team will compile all comments received on the Public Review Draft for inclusion as an Appendix item and revise the LHMP, as necessary. The LHMP Planning Team will finalize the LHMP and complete the new FEMA Plan Review Tool Reference Document and submit the plan to Cal



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OES for State review and approval. Once approved at the State level, Cal OES will provide the submittal to FEMA Region IX requesting federal approval.

Important to Note: The state and federal approval process could take more than 60 Days depending on availability of review staff.

Plan Adoption and Submittal

Once Cal OES and FEMA approval is received, the LHMP Project Management Team will prepare the final LHMP for review by the City of Grand Terrace and will complete any resulting revisions required and prepare the Final LHMP adoption. After LHMP adoption, the City of Grand Terrace's will compile supporting documentation (e.g., official resolution) as part of the Final Draft to be distributed to Planning Committee members, as well as all required local, state, and Federal agencies.

Important to Note: City of Grand Terrace staff must update the LHMP within five years of the previous plan approval date to maintain access to all hazard mitigation grant streams.