

**Multi-Jurisdictional
Hazard Mitigation Plan:
City of El Cajon Annex
San Diego County, California
2023**



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1. SECTION ONE: Planning Area and Resources

1.1. Planning Area: City of El Cajon

The City of El Cajon is located in Eastern San Diego County, approximately 15 miles east of the City of San Diego. El Cajon is an inland valley surrounded by rolling hills and mountains. The City is 14.4 square miles of diverse residential, commercial, and industrial area. El Cajon has its own Police Department and is part of joint exercise of powers agreement for organizational management of fire protection, fire prevention services, emergency medical services and emergency management. These services are provided by Heartland Fire & Rescue, an ISO Class 1 Fire department.

El Cajon has a semi-arid Mediterranean climate and averages 263 sunny days per year. Winters are mild with periodic rain. Frost is rare but can occur in December and January. Summer is almost rain free, but sometimes overcast and cool in the months of May and June. While most days have mild and pleasant temperatures, hot dry Santa Ana winds bring high temperatures on a few days each year, mostly but not exclusively in the fall. The City's housing is comprised of approximately 34,000 units. There exists a cross-section of housing types, from lower cost mobile homes and apartments, to moderately priced condominiums, to higher cost single-family residences.

According to the most recent US Census data, the population of El Cajon is 107,563. The population is comprised of the following:

- White - 72.3%
- Black / African American – 5.9%
- Native American and Alaska Native - .4%
- Asian – 4.3%
- Native Hawaiian / Pacific Islander - .2%
- Two or More Races – 6.8%

SECTION ONE | Determine the Planning Area and Resources

1.2. Community Rating System Requirements

The Community Rating System (CRS) is a FEMA program and rewards communities that go beyond the minimum standards for floodplain management under the National Flood Insurance Program (NFIP). Communities can potentially improve their Community Rating System and lower NFIP premiums by developing a CRS Plan.

For more information on the National Flood Insurance Program, see <http://www.fema.gov/national-flood-insurance-program>.

Community Rating System (CRS) Planning Steps	Local Mitigation Planning Handbook Tasks (44 CFR Part 201)
Step 1. Organize	Task 1: Determine the Planning Area and Resources Task 2: Build the Planning Team 44 CFR 201.6(c)(1)
Step 2. Involve the public	Task 3: Create an Outreach Strategy 44 CFR 201.6(b)(1)
Step 3. Coordinate	Task 4: Review Community Capabilities 44 CFR 201.6(b)(2) & (3)
Step 4. Assess the hazard	Task 5: Conduct a Risk Assessment 44 CFR 201.6(c)(2)(i) 44 CFR 201.6(c)(2)(ii) & (iii)
Step 5. Assess the problem	
Step 6. Set goals	Task 6: Develop a Mitigation Strategy 44 CFR 201.6(c)(3)(i) 44 CFR 201.6(c)(3)(ii) 44 CFR 201.6(c)(3)(iii)
Step 7. Review possible activities	
Step 8. Draft an action plan	
Step 9. Adopt the plan	Task 8: Review and Adopt the Plan 44 CFR 201.6(c)(5)
Step 10. Implement, evaluate, revise	Task 7: Keep the Plan Current Task 9: Create a Safe and Resilient Community 44 CFR 201.6(c)(4)

TABLE I.1: DESCRIBES THE CRS REQUIREMENTS MET BY THE SAN DIEGO COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN.

Any jurisdiction or special district may participate in the hazard mitigation planning process. However, to request FEMA approval, each of the local jurisdictions must meet all requirements of 44 CFR §201.6. In addition to the requirement for participation in the process, the Federal regulation specifies the following requirements for multi-jurisdictional plans:

- The risk assessment must assess each jurisdiction’s risk where they may vary from the risks facing the entire planning area. (44 CFR §201.6(c)(2)(iii))
- There must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan. (44 CFR §201.6(c)(3)(iv))

SECTION ONE | Determine the Planning Area and Resources

- Each jurisdiction requesting approval of the plan must document that it has been formally adopted. (44 CFR §201.6(c)(5))

The hazard mitigation plan must clearly list the jurisdictions that participated in the plan and are seeking plan approval.

- Refer to the San Diego County Multi-Jurisdictional Hazard Mitigation Plan for a list of participating jurisdictions.

2. SECTION TWO: Planning Team

2.1. Planning Participants

City Manager's Office

Dave Richards, Senior Management Analyst / Public information Officer
Ryan Villegas Management Analyst

Community Development

Andre Sanchez, Building Official

Finance

Clay Schoen, Director

Fire Department – Heartland Fire & Rescue

Andy McKellar, Emergency Preparedness Coordinator
Bent Koch, Operations Chief
Shaun Richardson, Fire Marshal

Information Technology Services

Jay Santos, GIS Specialist

Police Department

Royale Bates, Captain

Public Works

Yazmin Arellano, Director

SECTION TWO | Build the Planning Team

2.2. Planning Process

The San Diego County Hazard Mitigation Working Group held regular meetings which were attended by the Emergency Preparedness Coordinator. A series of meetings was held by the Local Planning Group (LPG). Due to COVID restrictions, these meetings were held online. The goals and objectives were developed by considering the risk assessment findings, localized hazard identification and loss/exposure estimates, and an analysis of the jurisdiction's current capabilities assessment. These preliminary goals, objectives and actions were developed to represent a vision of long-term hazard reduction or enhancement of capabilities. To help in further development of these goals and objectives, the LPG compiled and reviewed current jurisdictional sources including the City's planning documents, codes, and ordinances.

As with the 2018 plan, the 2023 Mitigation Plan will be utilized to inform updates to the City's General Plan as well as the Sustainability Plan, along with various city codes and ordinances.

See the *San Diego County Multi-Jurisdictional Hazard Mitigation Plan's* Section Two for details about the county-wide Planning Process.

City of El Cajon LPG Meetings

May 12, 2021 – Initial Meeting

April 6, 2022 – Final Meeting

3. SECTION THREE: Outreach Strategy

See the *San Diego County Multi-Jurisdictional Hazard Mitigation Plan*'s Section Three for details about the county-wide outreach strategy.

4. SECTION FOUR: Community Capabilities

Local mitigation capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities, and must be included in a hazard mitigation plan by the planning team.

The LPG may also identify additional types of capabilities relevant to mitigation planning.

4.1. Capability Assessment

The primary types of capabilities for reducing long-term vulnerability through mitigation planning are:

- Planning and regulatory
- Administrative and technical
- Financial
- Education and outreach

Improvements in existing policies and programs in each of the four areas above can be obtained through increased cooperation between city departments, continued training of staff, and collaboration with local and regional partners.

SECTION FOUR | Review Community Capabilities

4.1.1. Planning and Regulatory

Planning and regulatory capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. The jurisdiction has in place:

Plans	Yes/No Year	Does the plan address hazards? Does the plan identify projects to include in the mitigation strategy? Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes 2021	The City of El Cajon General Plan, which includes a Safety Element that references the Hazard mitigation Plan.
Capital Improvements Plan	Yes 2021- 2022	Yes Yes Yes
Economic Development Plan	Yes 2021	Yes Yes Yes
Local Emergency Operations Plan	Yes 2013	This plan does address local hazards This plan does not identify mitigation projects This plan can be used to implement mitigation actions
Continuity of Operations Plan	Yes 2013	This plan does not address local hazards This plan does not identify mitigation projects This plan can be used to implement mitigation actions
Transportation Plan	Yes	General Plan Circulation Element. Circulation Element identifies future road segments, assists with planning and reserving unimproved roadways.
Stormwater Management Plan	Yes	Drainage Master Plan
Community Wildfire Protection Plan	No	
M. Real estate disclosure requirements	Yes	
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes 2020	Sustainability Initiative

TABLE 4.1.1: PLANNING AND REGULATORY - 4.1 DATA.

SECTION FOUR | Review Community Capabilities

4.1.2. Administrative and Technical

Administrative and technical capabilities include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions.

Administration	Yes/No	Describe capability Is coordination effective?
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Engineering staff are trained to become familiar and to enforce all applicable Federal, State, and local regulations and requirements of land development and land management practices. Yes
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Conduct inspections of private and public construction projects inspecting materials and workmanship to ensure compliance with approved plans and specifications; inspect conditions prior to the start of construction, during construction, and upon completion. Yes
Planners or Engineer(s) with an understanding of natural and/or manmade hazards	Yes	Both Planners and Engineers understand various types of natural and manmade hazards. Staff is trained to assist with hazard mitigation when/if occurs and appropriate mitigation measures are incorporated to all development/construction projects. Yes
Mitigation Planning Committee	Yes	El Cajon Mitigation Planning Team is made up of representatives from city departments. Yes
Maintenance programs to reduce risk (e.g., tree trimming, clearing drainage systems)	Yes	Trees that are in the right of way and parks are all on a trimming schedule. Drainage system is maintained annually. Yes
Mutual aid agreements	Yes	Metro JPA – Wastewater Collection. Participate in the California Fire Rescue and Mutual Aid System, the San Diego County Operational Area Emergency Operations Plan. The California Master Mutual Aid Agreement. Yes

TABLE 4.1.2: ADMINISTRATIVE AND TECHNICAL - 4.1 DATA CONTINUED.

SECTION FOUR | Review Community Capabilities

Staff	Yes/No FT/PT1	Is staffing adequate to enforce regulations? Is staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes FT	Yes Yes Yes
Floodplain Administrator	Yes. FT	Yes – Part of other duties assigned to full-time position.
Emergency Manager	Yes FT-1	Staffing is adequate Staff is trained on hazards and mitigation Staff coordinates with various outside agencies regularly
Surveyors	Yes FT	Yes Yes Yes
Staff with education or expertise to assess the community’s vulnerability to hazards	Yes FT-1	Yes Yes Yes
Community Planner	Yes FT	Yes Yes Yes
Scientists familiar with the hazards of the community	Yes PT	Staffing is not adequate. However, on call consultants are relied upon for scientific work. Necessary training is reviewed upon consultant selection. Coordination is effective.
Civil Engineer	Yes FT	Yes Yes Yes
Personnel skilled in GIS and/or HAZUS	Yes FT	Part of other duties as assigned, within the various city departments.
Grant writers	Yes PT	Staff in individual departments are assigned grant writing as part of other duties.

TABLE 4.1.3: ADMINISTRATIVE AND TECHNICAL – 4.1 DATA CONTINUED.

SECTION FOUR | Review Community Capabilities

Technical	Yes/No	Describe capability Has capability been used to assess/mitigate risk in the past?
Warning systems/services (Reverse 911, outdoor warning signals)	Yes	Alert San Diego for Reverse 911 operations. Wireless Emergency Alerts (WEA) for emergency notifications Portable changeable message boards.
Hazard data and information	Yes	Previous Regional and El Cajon-specific hazard data and information has been used to identify and mitigate risks in the past
Grant writing	Yes PT	Various full-time staff have grant writing as part of their regular duties
Hazus analysis	Yes	Hazus program has been used to identify an mitigate risks

TABLE 4.1.4: ADMINISTRATIVE AND TECHNICAL – 4.1 DATA CONTINUED.

SECTION FOUR | Review Community Capabilities

4.1.3. Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation:

Funding Resource	Access/ Eligibility (Yes/No)	Has the funding resource been used in past and for what type of activities? Could the resource be used to fund future mitigation actions?
Community Development Block Grants (CDBG)	Yes	Potential funding source in instances that mitigation actions are consistent with CDBG objectives
Capital improvements project funding	Yes	Potential funding depending on mitigation action and the restrictions on funding sources.
Authority to levy taxes for specific purposes	Yes	Requires voter approval.
Fees for water, sewer, gas, or electric service	Yes	Potential funding source if mitigation actions are consistent with the activities for which the fee is assessed.
Impact fees for homebuyers or developers for new developments/homes	Yes	Potential funding source if mitigation actions are consistent with the activities for which the fee is assessed.
Incur debt through general obligation bonds	Yes	Potential funding source depending on nature of mitigation action.
Incur debt through special tax and revenue bonds	Yes	Potential funding source depending on nature of mitigation action.
Incur debt through private activity bonds	Yes	Potential funding source depending on nature of mitigation action.
Community Development Block Grants (CDBG)	Yes	Potential funding source in instances that mitigation actions are consistent with CDBG objectives.
Capital improvements project funding	Yes	Potential funding depending on mitigation action and the restrictions on funding sources.
Authority to levy taxes for specific purposes	Yes	Requires voter approval.

TABLE 4.1.5: FINANCIAL – 4.1 DATA CONTINUED.

SECTION FOUR | Review Community Capabilities

4.1.4. Education and Outreach

The following are education and outreach programs and methods that are in place and that could be used to implement mitigation activities and communicate hazard-related information:

Program/Organization	Yes/No	Describe program/organization and how relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs populations, etc.	Yes	El Cajon works with a number of community organizations who have direct involvement in environmental protection, emergency preparedness and access and functional needs issues. Examples are the American Red Cross, Sierra Club, San Diego Regional Center and the International Rescue Committee. https://www.able2work.org/ https://www.rescue.org/united-states/san-diego-ca https://www.sdrc.org/ https://www.redcross.org/local/california/southern-california/about-us/locations/san-diego-imperial.html?CID=organic_gmb_listings East County Community Emergency Response Team (CERT)
Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	The City uses many avenues to inform and educate community members. Environmental information can be found on the City’s webpage, preparedness and safety messaging is presented through the social media outlets for both Fire and Police Departments. Each October, in coordination with Fire Prevention Week, the Fire Department holds an Open House event. At these events, Police and Fire personnel, along with trained CERT members, provide safety and preparedness information to the public. More information is available to the public through these websites and partner agencies. https://mtrp.org/ https://thegarden.org/ https://www.cityofelcajon.us/your-government/departments/city-manager/environmental-strategy
Natural disaster or safety related school programs	Yes	Both the Police and Fire Departments offer disaster and safety programs to local schools as requested.
StormReady certification	No	
Firewise Communities certification	No	
Public-private partnership initiatives addressing disaster-related issues	Yes	Fire department along with CERT, SDGE, Red Cross and local community groups provide information on “all hazards” disaster preparedness and general fire safety. Using multiple federal, state and local resources, information is compiled and shared as it applies to specific disaster related issues that are encountered.

TABLE 4.1.6: EDUCATION AND OUTREACH - 4.1 DATA CONTINUED.

SECTION FOUR | Review Community Capabilities

4.2. Safe Growth Audit

Identify gaps in your community’s growth guidance instruments and improvements that could be made to reduce vulnerability to future development:

Comprehensive Plan	Yes	No
Land Use		
1. Does the future land-use map clearly identify natural hazard areas?	X	
Please refer to the City of El Cajon General Plan Land Use Map at the following link: https://cityofelcajon.maps.arcgis.com/apps/webappviewer/index.html?id=5fc20ac812ac42799d8c7d33a3db8cac and the City of El Cajon General Plan Safety Element at the following link: https://www.elcajon.gov/home/showpublisheddocument/25187/637619597774770000		
2. Do the land-use policies discourage development or redevelopment within natural hazard areas?	X	
3. Does the plan provide adequate space for expected future growth in areas located outside natural hazard areas?		X
Per page 18 or the City of El Cajon Safety Element referenced above: <i>"Most of El Cajon is built out and outside of fire risk areas. Natural lands in the County of San Diego to the east and north of El Cajon in high fire severity zones pose the greatest risk to El Cajon. Wildfires can start outside and spread into El Cajon, or can create dangerous air pollution by blowing ash into El Cajon. Developed areas such as El Cajon have a lower fire risk than the rural areas in the mountains where regionally wildfires usually begin (Figure S-7). Portions of east and west El Cajon are located in high fire severity zones (Figure S-8)."</i>		
Transportation		
1. Does the transportation plan limit access to hazard areas?		X
Our Circulation Element does not limit access to hazard areas. The City of El Cajon’s circulation system is 100 percent built out.		
2. Is transportation policy used to guide growth to safe locations?	X	
Our transportation system is 100 percent built out and provides direct access to existing regional arterials and interstate and state highways.		
3. Are movement systems designed to function under disaster conditions (e.g., evacuation)?	X	
Yes, our transportation system is capable to accommodate the movement of people and goods under disaster conditions.		

TABLE 4.2.1: SAFE GROWTH AUDIT - 4.2 DATA.

SECTION FOUR | Review Community Capabilities

Comprehensive Plan (continued)	Yes	No
Environmental Management		
1. Are environmental systems that protect development from hazards identified and mapped?	X	
Please refer to the City of El Cajon General Plan Safety Element at the following link: https://www.elcajon.gov/home/showpublisheddocument/25187/637619597774770000		
2. Do environmental policies maintain and restore protective ecosystems?	X	
In 2018 and 2019, the City developed the Sustainability Initiative to reduce greenhouse gases in El Cajon in accordance with State goals.		
3. Do environmental policies provide incentives to development that is located outside protective ecosystems?	X	
The City offers free tree planting on City right of way.		
Public Safety		
1. Are the goals and policies of the comprehensive plan related to those of the FEMA Local Hazard Mitigation Plan?	X	
The Hazard Mitigation Plan is used to inform the Safety Element of the General Plan.		
2. Is safety explicitly included in the plan’s growth and development policies?	X	
Yes, there is a public safety element in the City’s general plan. https://www.elcajon.gov/home/showpublisheddocument/25187/637619597774770000		
3. Does the monitoring and implementation section of the plan cover safe growth objectives?	X	

TABLE 4.2.2: SAFE GROWTH AUDIT - 4.2 DATA CONTINUED.

SECTION FOUR | Review Community Capabilities

Zoning Ordinance	Yes	No
1. Does the zoning ordinance conform to the comprehensive plan in terms of discouraging development or redevelopment within natural hazard areas?	X	
2. Does the ordinance contain natural hazard overlay zones that set conditions for land use within such zones?	X	
3. Do rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use?	X	
4. Does the ordinance prohibit development within, or filling of, wetlands, floodways, and floodplains?	X	
Subdivision Regulations	Yes	No
1. Do the subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas?	X	
2. Do the regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources?	X	
3. Do the regulations allow density transfers where hazard areas exist?		X

TABLE 4.2.3: SAFE GROWTH AUDIT - 4.2 DATA CONTINUED.

Capital Improvement Program and Infrastructure Policies	Yes	No
1. Does the capital improvement program limit expenditures on projects that would encourage development in areas vulnerable to natural hazards?	X	
2. Do infrastructure policies limit extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards?	X	
3. Does the capital improvement program provide funding for hazard mitigation projects identified in the FEMA Mitigation Plan?	X	
The City recently received a grant for Wildfire Hazard Mitigation from the San Diego River Conservancy for the development of a project to mitigate wildfires in high fire hazardous areas.		
Other	Yes	No
1. Do small area or corridor plans recognize the need to avoid or mitigation natural hazards?	X	
2. Does the building code contain provisions to strengthen or elevate construction to withstand hazard forces?	X	
3. Do economic development or redevelopment strategies include provisions for mitigation natural hazards?	X	
4. Is there an adopted evacuation and shelter plan to deal with emergencies from natural hazards?	X	
Please refer to the City of El Cajon General Plan Safety Element at the following link: https://www.elcajon.gov/home/showpublisheddocument/25187/637619597774770000		

TABLE 4.2.4: SAFE GROWTH AUDIT - 4.2 DATA CONTINUED.

4.2.1 Future Development Trends

The City of El Cajon is primarily land locked due to boundaries with other jurisdictions, and federal and state lands, as well as topographic constraints in the surrounding unincorporated areas. These development constraints have led to increased infill development within the City. Increased development in the has caused a strain on existing undersized infrastructure leading to increased concerns of stormwater capacity and flooding, which is being addressed through the waste water/stormwater projects outlined in Section 6 of this plan. New development does not extend city boundaries, it is re-utilizing existing plots within city limits. Per page 18 of the City of El Cajon’s General Plan Safety Element: "Most of El Cajon is built out and outside of fire risk areas. Natural lands in the County of San Diego to the east and north of El Cajon in high fire severity zones pose the greatest risk to El Cajon”.

City of El Cajon – Population (US Census Bureau)				
2018	2019	2020	2021	2022
103,400	102,966	106,286	105,432	107,563

4.3. National Flood Insurance Program (NFIP)

As a participant in the National Flood Insurance Program (NFIP), a community develops capabilities for conducting flood mitigation activities. The hazard mitigation plan must describe each jurisdiction’s participation in the NFIP. Participating communities must describe their continued compliance with NFIP requirements. The mitigation plan must do more than state that the community will continue to comply with the NFIP. Each jurisdiction must describe their floodplain management program and address how they will continue to comply with the NFIP requirements. The local floodplain administrator is often the primary source for this information.

Jurisdictions where FEMA has issued a floodplain map but are currently not participating in the NFIP may meet this requirement by describing the reasons why the community does not participate. Plan updates must meet the same requirements and document any change in floodplain management programs.

The City of El Cajon continues to participate in the NFIP. According to the 2022 FEMA Repetitive Loss Summary Report, The City of El Cajon has 4 Repetitive Loss properties and 1, Severe Repetitive Loss property.

SECTION FOUR | Review Community Capabilities

NFIP Topic	Source of Information	Comments
Insurance Summary		
How many NFIP policies are in the community? What is the total premium and coverage?	State NFIP Coordinator or FEMA NFIP Specialist	132 Policies (current) \$35,366,400 Insurance in force (current) \$127,404 premiums in force (01/31/14)
How many claims have been paid in the community? What is the total amount of paid claims? How many of the claims were for substantial damage?	FEMA NFIP or Insurance Specialist	Between 1978 and 2022: 52 Claims \$476,315.27 Paid 3 Substantial Damage Claims
How many structures are exposed to flood risk within the community?	Community Floodplain Administrator (FPA)	Unknown
Describe any areas of flood risk with limited NFIP policy coverage	Community FPA and FEMA Insurance Specialist	Unknown
Staff Resources		
Is the Community FPA or NFIP Coordinator certified?	Community FPA	No
Is floodplain management an auxiliary function?	Community FPA	Yes, it is overseen by City Planning.
Provide an explanation of NFIP administration services (e.g., permit review, GIS, education or outreach, inspections, engineering capability)	Community FPA	Development application review and GIS mapping services.
What are the barriers to running an effective NFIP program in the community, if any?	Community FPA	A comprehensive assessment would be required to determine if any barriers exist.
Compliance History		
Is the community in good standing with the NFIP?	State NFIP Coordinator, FEMA NFIP Specialist, community records	Yes
Are there any outstanding compliance issues (i.e., current violations)?		No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?		02/25/2014
Is a CAV or CAC scheduled or needed?		No

TABLE 2.3.1: NATIONAL FLOOD INSURANCE PROGRAM - 4.3 DATA.

SECTION FOUR | Review Community Capabilities

NFIP Topic	Source of Information	Comments
Regulation		
When did the community enter the NFIP?	Community Status Book http://www.fema.gov/national-flood-insurance-program/national-flood-insurance-program-community-status-book	03-08-1974
Are the FIRMs digital or paper?	Community FPA	Digital
Do floodplain development regulations meet or exceed FEMA or State minimum requirements? If so, in what ways?	Community FPA	City of El Cajon regulations meet the state minimum requirements.
Provide an explanation of the permitting process.	Community FPA, State, FEMA NFIP Flood Insurance Manual http://www.fema.gov/flood-insurance-manual Community FPA, FEMA CRS Coordinator, ISO representative	Building permits for structures within floodplains may be issued according to the provisions in El Cajon Municipal Code Chapter 15.14 (Flood Damage Prevention). Certifications for floor elevations, floodproofing, subdivision, and floodway encroachments are required as applicable.
Community Rating System (CRS)		
Does the community participate in CRS?	Community FPA, State, FEMA NFIP	No
What is the community's CRS Class Ranking?	Flood Insurance Manual http://www.fema.gov/flood-insurance-manual	N/A
What categories and activities provide CRS points and how can the class be improved?		N/A
Does the plan include CRS planning requirements	Community FPA, FEMA CRS Coordinator, ISO representative	N/A

TABLE 4.3.2: NATIONAL FLOOD INSURANCE PROGRAM - 4.3 DATA CONTINUED.

5. SECTION FIVE: Risk Assessment

The Local Planning Group conducted a risk assessment to determine the potential impacts of hazards to the people, economy, and built and natural environments of the community.

In addition to informing the mitigation strategy, this risk assessment may be used to inform emergency preparedness and response priorities, land use and comprehensive planning, and for decision making by elected officials, city and county departments, businesses, and organizations in the community.

Highest Rated Jurisdictional Hazards

The final list prioritized hazards for El Cajon has 1 hazard with an Overall Significance of High, with the next risk category being 2 hazards with an Overall Significance of Medium. This list of hazards was determined by the LPG using historical data, vulnerability assessments, and information gathered from the County OES Hazard Seminar Series.

- **Drought:** Drought is a slow-onset hazard that can last for months or years. As a hazard, it has the potential to impact many aspects of life, including drinking water and food. Because of the long duration of droughts, the impacts last for years and can ripple through a community over time.

Vulnerability and Impacts: Given the semi-arid climate of El Cajon, the regular occurrences of multi-year droughts across the State and Southwest region, drought could have a major impact on El Cajon's resiliency.

- **Earthquake:** An earthquake is a sudden motion or trembling that is caused by a release of strain accumulated within or along the edge of the Earth's tectonic plates. They usually occur without warning and there is potential for injuries, loss of life, property damage, and disruption of services.

Vulnerability and Impacts: There are no fault lines that pose a direct risk to the city, there are fault lines that run through surrounding jurisdictions. The largest impact to the El Cajon will be providing support to the affected area through mutual aid to Fire and Police departments. The city may also be asked to open disaster shelters to provide relief for those directly affected by the earthquake.

**Medium: The criteria fall mostly in the middle ranges of classifications and the event's impacts on the planning area are noticeable but not devastating. This rating is sometimes used for hazards with a high extent rating but very low probability rating.*

- **Extreme Heat:** In most of the United States, including the entire planning area, extreme heat is a long period (2 to 3 days) of high heat and humidity with temperatures above 90 degrees. Extreme heat does not cause structural damage like floods, fires, and earthquakes; however, periods of high temperatures can make people vulnerable to heatstroke, heat cramps, heat exhaustion and pose a threat to human life. The city has seen an increase in the number of extreme heat events. Despite this, the city has never proclaimed a state of emergency for a heat event. The City's Sustainability Initiative includes recommendations, such as tree planting, to help alleviate the effects of extreme heat occurrences.

SECTION FIVE | Conduct a Risk Assessment

Vulnerability and Impacts: Extreme heat does not cause structural damage like floods, fires, and earthquakes; however, extreme heat events put vulnerable populations (such as older adults, children, people who are chronically ill, and people who work outside) at risk of heat-related illnesses and even death.

Extreme heat also has secondary impacts, such as power outages and poor air quality. Heat events, and the increased use of air conditioning, can lead to power outages, which makes the events even more dangerous. Hotter temperatures may also lead to poorer air quality because ozone formation, a component of smog, increases with higher temperatures.

***High:** The criteria consistently fall in the high classifications and the event is likely/highly likely to occur with severe strength over a significant to extensive portion of the planning area.

5.1. Hazards Summary

The Local Planning Group reviewed the hazards identified in the previous Hazard Mitigation Plan and evaluated each to see if they still posed a risk to the jurisdiction. In addition, the hazards listed in the FEMA Local Mitigation Planning Handbook were also reviewed to determine if they should be added to the list of hazards to include in the plan revision.

Hazard	Location (Geographic Area Affected)	Maximum Probable Extent (Magnitude/Strength)	Probability of Future Events	Overall Significance Ranking
Avalanche	Negligible	Weak	Unlikely	Low
Dam Failure	Negligible	Weak	Unlikely	Low
Drought	Significant	Moderate	Likely	Medium
Earthquake	Significant	Moderate	Occasional	Medium
Erosion	Negligible	Weak	Unlikely	Low
Expansive Soils	Negligible	Weak	Unlikely	Low
Extreme Cold	Negligible	Weak	Unlikely	Low
Extreme Heat	Extensive	Moderate	Highly Likely	High
Flood	Limited	Weak	Occasional	Low
Hail	Negligible	Weak	Unlikely	Low
Hurricane	Negligible	Weak	Unlikely	Low
Landslide	Limited	Weak	Occasional	Low
Lightning	Limited	Weak	Occasional	Low
Sea Level Rise	Negligible	Weak	Unlikely	Low
Severe Wind	Negligible	Weak	Occasional	Low

SECTION FIVE | Conduct a Risk Assessment

Severe Winter Weather	Negligible	Moderate	Occasional	Low
Storm Surge	Negligible	Weak	Unlikely	Low
Subsidence	Negligible	Weak	Unlikely	Low
Tornado	Negligible	Weak	Unlikely	Low
Tsunami	Negligible	Weak	Unlikely	Low
Wildfire	Limited	Weak	Occasional	Low

TABLE 5.1.1: HAZARD SUMMARY - 5.1 DATA.

Definitions for Classifications

Location (Geographic Area Affected)

- **Negligible:** Less than 10 percent of planning area or isolated single-point occurrences
- **Limited:** 10 to 25 percent of the planning area or limited single-point occurrences
- **Significant:** 25 to 75 percent of planning area or frequent single-point occurrences
- **Extensive:** 75 to 100 percent of planning area or consistent single-point occurrences

Maximum Probable Extent (Magnitude/Strength based on historic events or future probability)

- **Weak:** Limited classification on scientific scale, slow speed of onset or short duration of event, resulting in little to no damage
- **Moderate:** Moderate classification on scientific scale, moderate speed of onset or moderate duration of event, resulting in some damage and loss of services for days
- **Severe:** Severe classification on scientific scale, fast speed of onset or long duration of event, resulting in devastating damage and loss of services for weeks or months
- **Extreme:** Extreme classification on scientific scale, immediate onset or extended duration of event, resulting in catastrophic damage and uninhabitable conditions

Hazard	Scale / Index	Weak	Moderate	Severe	Extreme
Drought	Palmer Drought Severity Index ³	-1.99 to +1.99	-2.00 to -2.99	-3.00 to -3.99	-4.00 and below
Earthquake	Modified Mercalli Scale ⁴	I to IV	V to VII	VII	IX to XII
	Richter Magnitude ⁵	2, 3	4, 5	6	7, 8
Hurricane Wind	Saffir-Simpson Hurricane Wind Scale ⁶	1	2	3	4, 5
Tornado	Fujita Tornado Damage Scale ⁷	F0	F1, F2	F3	F4, F5

Probability of Future Events

- **Unlikely:** Less than 1 percent probability of occurrence in the next year or a recurrence interval of greater than every 100 years.
- **Occasional:** 1 to 10 percent probability of occurrence in the next year or a recurrence interval of 11 to 100 years.

SECTION FIVE | Conduct a Risk Assessment

- **Likely:** 10 to 90 percent probability of occurrence in the next year or a recurrence interval of 1 to 10 years
- **Highly Likely:** 90 to 100 percent probability of occurrence in the next year or a recurrence interval of less than 1 year.

Overall Significance

- **Low:** Two or more criteria fall in lower classifications, or the event has a minimal impact on the planning area. This rating is sometimes used for hazards with a minimal or unknown record of occurrences or for hazards with minimal mitigation potential.
- **Medium:** The criteria fall mostly in the middle ranges of classifications and the event’s impacts on the planning area are noticeable but not devastating. This rating is sometimes used for hazards with a high extent rating but very low probability rating.
- **High:** The criteria consistently fall in the high classifications and the event is likely/highly likely to occur with severe strength over a significant to extensive portion of the planning area.

- Cumulative meteorological drought and wet conditions: <http://ncdc.noaa.gov/>
- Earthquake intensity and effect on population and structures: <http://earthquake.usgs.gov>
- Earthquake magnitude as a logarithmic scale, measured by a seismograph: <http://earthquake.usgs.gov>
- Hurricane rating based on sustained wind speed: <http://nhc.noaa.gov>
- Tornado rating based on wind speed and associated damage: <http://spc.noaa.gov>

Critical Facility Type	Jurisdiction Name	Counts
AIRPORT - CONTROL TOWER	EL CAJON	1
AIRPORT - RUNWAY	EL CAJON	3
AIRPORT - TERMINAL - SMALL	EL CAJON	1
BUS	EL CAJON	3
EMERGENCY - EOC	EL CAJON	2
EMERGENCY - FIRE	EL CAJON	5
EMERGENCY - POLICE	EL CAJON	5

TABLE 5.1.2: HAZARD SUMMARY - 5.1 DATA CONTINUED.

5.2 Hazard Omission Rationale

During the initial evaluation, the Hazard Mitigation Planning Group (HMPG) determined certain hazards were not included in the original plan’s profiling step because they were not prevalent hazards within San Diego County, were found to pose only minor or very minor threats to San Diego County compared to the other hazards (status had not changed), and would, therefore, not be included in this revision. Only hazards that received a High or Medium ranking in Section 5.1 were considered in this mitigation planning process.

Hazard	Description	Reason for Exclusion
Avalanche	A mass of snow moving down a slope. There are two basic elements to a slide; a steep, snow-covered slope and a trigger	Snowfall poses very minor threat compared to other hazards. NO significant snowfall has occurred within this jurisdiction.
Dam Failure	Catastrophic rupture of the dam structure causing downstream flooding and the possibility of human injury or loss of life.	Presents a minor threat to limited portions of the City.
Erosion	Erosion is the action of surface processes (such as water flow or wind) that removes soil, rock, or dissolved material from one location on the crust, and then transports it to another location where it is deposited.	Presents a minor threat to limited portions of the City.
Expansive soils	Expansive soils shrink when dry and swell when wet. This movement can exert enough pressure to crack sidewalks, driveways, basement floors, pipelines and even foundations	Presents a minor threat to limited portions of the City.
Hailstorm	Can occur during thunderstorms that bring heavy rains, strong winds, hail, lightning, and tornadoes	Occurs during severe thunderstorms; most likely to occur in the central and southern states; no historical record of this hazard in the region.
Land subsidence	Occurs when large amounts of ground water have been withdrawn from certain types of rocks, such as fine-grained sediments. The rock compacts because the water is partly responsible for holding the ground up. When the water is withdrawn, the rocks fall in on themselves.	Soils in the County are mostly granitic. Presents a minor threat to limited parts of the county. No historical record of this hazard in the region.
Tornado	A tornado is a violent windstorm characterized by a twisting, funnel-shaped cloud. It is spawned by a thunderstorm (or sometimes because of a hurricane) and produced when cool air overrides a layer of warm air, forcing the warm air to rise rapidly. The damage from a tornado is a result of the high wind velocity and wind-blown debris.	Less than one tornado event occurs in the entire State of California in any given year; poses very minor threat compared to other hazards. No historical record of this hazard in the region.

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Volcano	A volcano is a mountain that is built up by an accumulation of lava, ash flows, and airborne ash and dust. When pressure from gases and the molten rock within the volcano becomes strong enough to cause an explosion, eruptions occur	No active volcanoes in San Diego County. No historical record of this hazard in the region.
Wildfire	A wildfire is an uncontrolled fire spreading through vegetative fuels and exposing or possibly consuming structures. They often begin unnoticed and spread quickly. Naturally occurring and non-native species of grasses, brush, and trees fuel wildfires.	While wildfire occurs within the adjoining, unincorporated areas of the County, no wildfire has taken place inside City boundaries or had a sustained negative affect on City services.
Windstorm	A storm with winds that have reached a constant speed of 74 miles per hour or more	Maximum sustained wind speed recorded in the region is less than 60 miles per hour and would not be expected to cause major damage or injury.

Table 5.2.1: Hazard Omission Rationale

5.3 Potential Hazard Exposure and Loss Estimates

The City of El Cajon reviewed a set of jurisdictional-level hazard maps and data provided by the County of San Diego, including detailed critical facility information and localized potential hazard exposure/loss estimates related to residential, commercial, and critical asset/facilities to identify the top hazards threatening their city.

Hazard Type	Residential			Commercial		Critical Facilities	
	Exposed Population	Number of Residential Buildings	Potential Exposure Loss for Residential Buildings	Number of Commercial Buildings	Potential Exposure Loss for Commercial Buildings	Number of Critical Facilities	Potential Exposure for Critical Facilities
Coastal Storm	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sea Level Rise							
Coastal Flooding	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mean Higher High Water	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dam Failure	70	0	0	24	7,256,400	14	316,964,100
Earthquake (Loss)							
(Annualized Loss - Includes shaking, liquefaction and landslide components)	216	1,611	625,749,725	544	164,599,340	0	0
100 Year	0	0	0	0	0	0	0
500 Year	0	0	0	0	0	0	0
Floods (Loss)							
100 Year	5,427	80	31,088,000	30	9,070,500	5	250,816,000
500 Year	20,560	6,231	2,421,366,600	867	262,137,450	34	546,470,000
Rain-Induced Landslide							
High Risk	1,337	11	4,273,500	0	0	0	0
Moderate Risk	177	57	22,144,500	2	604,700	0	0
Tsunami	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Wildfire/Structure Fire							
High Fire Hazard	0	168	65,268,000	20	6,047,000	0	0
Very High Fire Hazard	13,057	1,523	591,837,800	7	2,116,450	9	6,997,070,000

Table 5.3.1: Summary of potential hazard-related exposure/loss in The City of El Cajon.

6. SECTION SIX: Mitigation Strategy

The mitigation strategy serves as the long-term blueprint for reducing potential losses identified in the risk assessment. The mitigation strategy describes how the community will accomplish the overall purpose, or mission, of the planning process.

The mitigation strategy is made up of three main required components: mitigation goals, mitigation actions, and an action plan for implementation. These provide the framework to identify, prioritize, and implement actions to reduce risk to hazards.

Mitigation goals are general guidelines that explain what the community wants to achieve with the plan. They are usually broad policy-type statements that are long-term, and they represent visions for reducing or avoiding losses from the identified hazards.

Mitigation actions are specific projects and activities that help achieve the goals.

The action plan describes how the mitigation actions will be implemented, including how those actions will be prioritized, administered, and incorporated into the community's existing planning mechanisms. In a multi-jurisdictional plan, each jurisdiction must have an action plan specific to that jurisdiction and its vulnerabilities.

6.1. Mitigation Action Evaluation

The Local Planning Group for the City identified and prioritized the following new mitigation actions based on risk assessments, goals, and objectives. Background information as well as information on how the action will be implemented and administered, such as ideas for implementation, responsible office, partners, potential funding, estimated cost, and timeline also are described.

The mitigation strategy includes only those actions and projects which reflect the actual priorities and capacity of the jurisdiction to implement over the next five years covered by this plan. It should further be noted, that although a jurisdiction may not have specific projects identified for each significant (medium) hazard for the five-year coverage of this planning process, the jurisdiction has focused on identifying those projects which are realistic and reasonable for the City to implement. Should future projects be identified for significant hazards where the jurisdiction has the capacity to implement, the City would add those projects to the City's Annex.

Each of the following criteria will be ranked with a -1, 0 or 1 using the following scale:

- 1 = Highly effective or feasible
- 0 = Neutral
- -1 = Ineffective or not feasible

Example Evaluation Criteria:

- **Life Safety** – How effective will the action be at protecting lives and preventing injuries?
- **Property Protection** – How significant will the action be at eliminating or reducing damage to structures and infrastructure?
- **Technical** – Is the mitigation action technically feasible? Is it a long-term solution? Eliminate actions that, from a technical standpoint, will not meet the goals.

SECTION SIX | Develop a Mitigation Strategy

- **Political** – Is there overall public support for the mitigation action? Is there the political will to support it?
- **Legal** – Does the community have the authority to implement the action?
- **Environmental** – What are the potential environmental impacts of the action? Will it comply with environmental regulations?
- **Social** – Will the proposed action adversely affect one segment of the population? Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people?
- **Administrative** – Does the community have the personnel and administrative capabilities to implement the action and maintain it or will outside help be necessary?
- **Local Champion** – Is there a strong advocate for the action or project among local departments and agencies that will support the action’s implementation?
- **Other Community Objectives** – Does the action advance other community objectives, such as capital improvements, economic development, environmental quality, or open space preservation? Does it support the policies of the comprehensive plan?

The information contained within this plan, including results from the Risk Assessment, and the Mitigation Strategy will be used by the City to help inform updates and the development of local plans, programs and policies. The City’s Public Works Department may use the hazard information when implementing forestry, street, and solid waste division projects. This plan may also be utilized when implementing water, wastewater reclamation, and environmental projects that are part of the City’s Sustainability Plan.

SECTION SIX | Develop a Mitigation Strategy

Mitigation Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Other Community Objectives	Total Score
Local Plans and Regulations											
GOAL 2: Update and implement El Cajon’s Sustainability Initiative in order to mitigate damage and losses to existing assets, including people and critical infrastructure, due to climate change.											
Develop a comprehensive approach to reducing the possibility of damage and losses due to climate change	0	0	1	1	1	1	0	1	1	1	7
Increase awareness and knowledge of damages and losses due to climate change among senior City leadership and/or local officials	0	0	1	1	1	1	0	1	1	1	7
Increase public awareness and knowledge of damages and losses due to climate change through community awareness	0	1	1	1	1	1	0	1	1	1	8
GOAL 6: Implement recommendations in the City of El Cajon’s Safety Element of the General Plan to support hazard mitigation efforts.											
Familiarize staff with the priorities to address the most significant risks to El Cajon in the next twenty years	1	1	1	1	1	1	0	1	1	1	9
Follow the guide to ensure a reduction in the risk from hazards by regulating which important buildings and services can be built in hazardous areas, making streets adequate for fire trucks and other needs of first responders.	1	1	1	1	1	1	0	1	1	1	9

TABLE 6.1.1: MITIGATION ACTION EVALUATION - 6.1 DATA.

SECTION SIX | Develop a Mitigation Strategy

Mitigation Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Other Community Objectives	Total Score
Structure and Infrastructure Projects											
GOAL 1: Reduce the possibility of damage and losses to existing assets, including people and critical infrastructure, due to structure/wildland fire.											
Develop a comprehensive approach to reducing the possibility of damage and losses due to structure fire/wildland fire	1	1	1	1	1	0	0	1	1	1	8
Coordinate with and support existing efforts to mitigate structural fire/wildland fire	1	1	1	1	1	0	0	1	1	1	8
Maintain GIS mapping to best reflect potential vulnerability of assets from structural fire/wildland fire	1	1	1	1	1	0	0	1	1	1	9
Maintain adequate emergency response capability	1	1	1	1	1	0	0	1	1	1	9
GOAL 4: Provide local alternatives for wastewater treatment and water supply during emergencies and increase the County's water portfolio for drought resiliency.											
Treat wastewater at an alternative site	0	0	1	1	1	1	0	1	1	1	7
Convey purified water to Lake Jennings for raw water surface augmentation	0	0	1	1	1	1	0	1	1	1	7
GOAL 5: Provide alternatives for wastewater treatment and water supply during emergencies and increase the County's water portfolio for drought resiliency.											
Recycle and purify wastewater	0	0	1	1	1	1	0	1	1	1	7
Convey purified water to Lake Miramar for raw water surface augmentation	0	0	1	1	1	1	0	1	1	1	7

TABLE 6.1.2: MITIGATION ACTION EVALUATION - 6.1 DATA CONTINUED.

SECTION SIX | Develop a Mitigation Strategy

Mitigation Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Other Community Objectives	Total Score
Structure and Infrastructure Projects (cont.)											
GOAL 8: Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and City-owned facilities, due to <u>other manmade hazards</u>.											
Maintain adequate planning and emergency response capability	1	1	1	1	1	0	0	1	1	1	8
Develop a comprehensive approach to reducing the possibility of damage and losses due to manmade hazards	1	1	1	1	1	0	0	1	1	1	8
Coordinate with and support existing efforts to mitigate manmade hazards	1	1	1	1	1	0	0	1	1	1	8
Maintain IT awareness and GIS mapping to best reflect potential vulnerability of assets from manmade hazards	1	1	1	1	1	0	0	1	1	1	8

TABLE 6.1.3: MITIGATION ACTION EVALUATION - 6.1 DATA CONTINUED.

SECTION SIX | Develop a Mitigation Strategy

Mitigation Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Other Community Objectives	Total Score
Structure and Infrastructure Projects (cont.)											
GOAL 9: Reduce the probability of injury to people as well as minimize damage and loss of existing infrastructure (to include critical facilities) due to <u>hazardous materials incidents</u>.											
Maintain adequate emergency response capability.	1	1	1	1	1	1	0	1	1	1	9
Develop a comprehensive approach to reducing the possibility of damage and losses due to hazardous materials incidents.	1	0	1	1	1	1	0	1	1	1	8
Coordinate with and support existing efforts to mitigate hazardous materials incidents.	1	0	1	1	1	1	0	1	1	1	8
Maintain GIS mapping to best reflect potential vulnerability of assets from HAZMAT.	1	0	1	1	1	1	0	1	1	1	8

TABLE 6.1.4: MITIGATION ACTION EVALUATION - 6.1 DATA CONTINUED.

SECTION SIX | Develop a Mitigation Strategy

Mitigation Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Other Community Objectives	Total Score
Natural Systems Protection											
GOAL 3: Urban Forest Management Plan											
Address extreme heat, erosion, landslide, and wildfire hazards by implementing the El Cajon Urban Forest Management Plan.	1	0	1	1	1	1	0	1	1	1	8
Implementation activities include education and outreach, tree planting programs, ordinance updates, arborists, free tree planting to residents upon request, Arbor Day community event.	1	0	1	1	1	1	0	1	1	1	8

TABLE 6.1.5: MITIGATION ACTION EVALUATION - 6.1 DATA CONTINUED.

SECTION SIX | Develop a Mitigation Strategy

Mitigation Action	Life Safety	Property Protection	Technical	Political	Legal	Environmental	Social	Administrative	Local Champion	Other Community Objectives	Total Score
Education and Awareness Programs											
GOAL 7: Increase public understanding and support for effective hazard mitigation.											
Create culturally appropriate hazard preparation and education through emergency alerts, classroom programs, neighborhood groups, and public events.	0	0	1	1	1	1	0	1	1	1	7
Execute ongoing agreements with translators to have them available during an emergency. Languages identified based on latest Census data: English, Spanish, Pashto, Dari, Arabic, Farsi, and Somali.	0	0	1	1	1	1	0	1	1	1	7

Table 6.1.6: Mitigation Action Evaluation – 6.1 Data Continued

SECTION SIX | Develop a Mitigation Strategy

6.2. Mitigation Action Implementation

In large part, hazard priorities remained unchanged from the last plan, though some hazards’ (such as Climate Change, Drought, and Extreme Heat) prevalence and/or probability of occurrence increased and, therefore, needed an updated Risk Assessment.

The information contained within this plan, including results from the Risk Assessment, and the Mitigation Strategy will be used by the City to help inform updates and the development of local plans, programs and policies. The City’s Public Works Department may use the hazard information when implementing forestry, street, and solid waste division projects. The Engineering Department may utilize the hazard information when implementing water, wastewater reclamation, and environmental projects that are part of the City’s Capital Improvement Program. This plan’s goals and actions were updated from the last version to reflect current priorities within existing plans, including the El Cajon General Plan’s Safety Element and the city’s Sustainability Plan. For more information on potential funding sources and grants for mitigation actions, please see the County of San Diego Multi-jurisdictional Hazard Mitigation Base Plan, Section 6.2.

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Structure/Wildland Fire</i> <u>Action:</u> Maintain GIS mapping to best reflect potential vulnerability of assets from structural fire/wildland fire <u>Action:</u> Incorporate public messaging and awareness through City newsletters and other materials, educating the public on how to reduce structure/wildfire risk at home
Background/Issue:	The City of El Cajon has experienced damage and losses due to structure/wildland fire.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	<ul style="list-style-type: none"> • El Cajon Fire Department / Heartland Fire & Rescue • City of El Cajon Communications
Partners:	<ul style="list-style-type: none"> • City of El Cajon – Public Works • City of El Cajon – Community Services • County of San Diego Office of Emergency Services
Potential Funding:	<ul style="list-style-type: none"> • General Fund • Available grant funds
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response.
Benefits: (Losses Avoided)	Reducing the possibility of damage and losses to existing assets, including people and critical infrastructure, due to structure fire/wildland fire
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Urban Forest Management</i> <u>Action:</u> Address extreme heat, erosion, landslide, and wildfire hazards by implementing the El Cajon Urban Forest Management Plan. <u>Action:</u> Implement activities include education and outreach, tree planting programs, ordinance updates, arborists, free tree planting to residents upon request, Arbor Day community event.
Background/Issue:	The City of El Cajon is committed to expanding and maintaining the City’s urban canopy
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon Public Works
Partners:	<ul style="list-style-type: none"> • City of El Cajon • California Climate Investments • Cal Fire • California Urban Forest Council • Invest from the Ground Up • West Coast Arborist • International Society of Arbor Culture – Western Chapter
Potential Funding:	<ul style="list-style-type: none"> • General Fund • Available grant funds
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response. Possible funding may come as a percentage of potential grant funding.
Benefits: (Losses Avoided)	<ul style="list-style-type: none"> • Shade canopy to reduce the urban heat island effect and improve energy efficiency in buildings • Prevent soil erosion and landslides with soil stabilization • Wildfire risk reduction due to the maintenance of a healthy tree canopy
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Climate Change Integration</i> <u>Action:</u> Increase awareness of the city’s Sustainability Plan among senior City leadership and/or local officials, as well as community members. Educate the community regarding damages and losses due to climate change through increased community outreach.
Background/Issue:	The City of El Cajon wishes to keep its Sustainability Initiative consistent with current legislative requirements and supportive of effective hazard mitigation planning.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon – City Manager’s Office, Environmental Strategy
Partners:	<ul style="list-style-type: none"> • City of El Cajon – Community Development • City of El Cajon – Public Works • City of El Cajon - Communications • El Cajon Fire Department / Heartland Fire & Rescue
Potential Funding:	<ul style="list-style-type: none"> • General Fund • Possible grant funds
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response. Possible funding may come as a percentage of potential grant funding.
Benefits: (Losses Avoided)	Limiting losses of existing assets, including people and critical infrastructure, due to changes in climate
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Alternatives for wastewater treatment and water supply during emergencies</i> <u>Action:</u> Convey purified water to Lake Jennings for raw water surface augmentation
Background/Issue:	The City of El Cajon participates with other East County partners to divert up to 15 MGD of wastewater from the City of San Diego wastewater collection and treatment systems for treatment at the Padre Dam Municipal Water District site in Santee and provides raw water surface augmentation to Lake Jennings as an alternative water supply to the Helix Water District.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon Public Works
Partners:	<ul style="list-style-type: none"> • City of El Cajon • Padre Dam Municipal Water District • County of San Diego • Helix Water District • County of San Diego Sanitation
Potential Funding:	<ul style="list-style-type: none"> • Wastewater Enterprise Fund • Available grant funds
Cost Estimate:	Approximately \$650M
Benefits: (Losses Avoided)	<ul style="list-style-type: none"> • Drought resiliency • Wastewater treatment site alternative
Timeline:	Anticipated completion date, 2025
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Increase the County's water portfolio for drought resiliency.</i> <u>Action:</u> Convey purified water to Lake Miramar for raw water surface augmentation
Background/Issue:	The City of El Cajon participates with other cities to purify up to 83 MGD of regional wastewater and provide raw water surface augmentation to Lake Miramar as an alternative water supply to the City of San Diego.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon – Public Works
Partners:	<ul style="list-style-type: none"> • City of El Cajon • City of San Diego • City of Chula Vista • City of Coronado • City of Del Mar • City of Imperial Beach • City of La Mesa • City of Lemon Grove • City of National City of El Cajon • Otay Water District • Padre Dam Municipal Water District • City of Poway • County of San Diego
Potential Funding:	<ul style="list-style-type: none"> • Wastewater Enterprise Fund • Available grant funds
Cost Estimate:	Approximately \$1.3B
Benefits: (Losses Avoided)	<ul style="list-style-type: none"> • Drought resiliency • Wastewater treatment
Timeline:	Phase 1 2026 Phase 2 2035
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Implement recommendations in the City of El Cajon's Safety Element of the General Plan to support hazard mitigation efforts.</i> <u>Action:</u> Follow the guide to ensure a reduction in the risk from hazards by regulating which important buildings and services may be built in hazardous areas, making streets adequate for fire trucks and other needs of first responders
Background/Issue:	The Safety Element of the City of El Cajon's General Plan addresses natural and human-made hazards and the risk to human life, property damage, and economic and social dislocation from hazard events.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon - Communications
Partners:	El Cajon Fire Department / Heartland Fire & Rescue
Potential Funding:	<ul style="list-style-type: none"> • General Fund • Wastewater Enterprise Fund • Available grant funds
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response. Possible funding may come from the General Fund or as a percentage of potential grant funding.
Benefits: (Losses Avoided)	<ul style="list-style-type: none"> • Minimize risks • Protect life • Protect infrastructure • Minimize injuries • Protect natural resources
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Increase public understanding of effective hazard mitigation</i> <u>Action:</u> Execute ongoing agreements with translators to have them available before and during an emergency. Languages identified based on latest Census data: English, Spanish, Pashto, Dari, Arabic, Farsi, and Somali.
Background/Issue:	El Cajon has a diverse population based on the latest Census data. To promote adequate resident emergency preparedness, staff will need to expand outreach activities for civic engagement.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon - Communications
Partners:	<ul style="list-style-type: none"> • El Cajon Fire Department / Heartland Fire and Rescue • City of El Cajon Communications • County of San Diego Office of Emergency Services
Potential Funding:	<ul style="list-style-type: none"> • General Fund • Available grant funds
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response. Possible funding may come as a percentage of potential grant funding.
Benefits: (Losses Avoided)	<ul style="list-style-type: none"> • Minimize risks • Protect life • Protect infrastructure • Minimize injuries • Protect natural resources
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<p><i>Reduce the possibility of damage and losses due to manmade hazards.</i></p> <p><u>Action:</u> Coordinate city departments and support existing efforts to mitigate manmade hazards</p> <p><u>Action:</u> Maintain IT awareness and GIS mapping to best reflect potential vulnerability of assets from manmade hazards</p>
Background/Issue:	The City of El Cajon has experienced damage and losses due to manmade hazards.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	City of El Cajon – City Manager’s Office
Partners:	<ul style="list-style-type: none"> • City of El Cajon Public Works • El Cajon Police Department • City of El Cajon GIS • El Cajon Fire Department / Heartland Fire & Rescue
Potential Funding:	General Fund or percentage of potential grant funding.
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response. Possible funding may come as a percentage of potential grant funding.
Benefits: (Losses Avoided)	Reducing the possibility of damage and losses to existing assets, including people and critical infrastructure, due to manmade hazards.
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	<p>Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue</p>

SECTION SIX | Develop a Mitigation Strategy

Jurisdiction:	CITY OF EL CAJON
Mitigation Action/Project Title:	<i>Reduce the probability damage due to hazardous materials incidents.</i> <u>Action:</u> Maintain GIS mapping to best reflect potential vulnerability of assets from HAZMAT.
Background/Issue:	The City of El Cajon has experienced damage and losses due to manmade hazards.
Ideas for Integration:	Actions can be integrated into existing city plans, such as the General Plan, written policies, City of El Cajon Municipal Codes and ordinances codes, as well as any futures updates to the previously mentioned plans, ordinances and codes.
Responsible Agency:	El Cajon Fire Department / Heartland Fire & Rescue
Partners:	<ul style="list-style-type: none"> • City of El Cajon Public Works • El Cajon Community Services • City of El Cajon GIS • San Diego County HAZMAT / CUPA
Potential Funding:	General Fund or percentage of potential grant funding.
Cost Estimate:	Varies, dependent upon cost at time of implementation and/or response. Possible funding may come as a percentage of potential grant funding.
Benefits: (Losses Avoided)	Reducing the possibility of damage and losses to existing assets, including people and critical infrastructure, due to hazardous material incidents.
Timeline:	2023 - 2028
Priority:	High
Worksheet Completed by:	Andy McKellar Emergency Preparedness Coordinator Heartland Fire & Rescue

SECTION SEVEN: Keep the Plan Current

7. SECTION SEVEN: Keep the Plan Current

Hazard Mitigation Plan maintenance is the process the planning team establishes to track the plan's implementation progress and to inform the plan update. Hazard Mitigation Plan updates provide the opportunity to consider how well the procedures established in the previously approved plan worked and revise them as needed.

This annex is part of the most recent *San Diego County Multi-Jurisdictional Hazard Mitigation Plan* update. The plan was last updated in 2018. See the *San Diego County Multi-Jurisdictional Hazard Mitigation Plan - 2018* for more information.

7.1. Mitigation Action Progress

Plan monitoring requires tracking the implementation of the plan over time. The plan must identify how, when, and by whom the plan will be monitored.

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and City-owned facilities, due to <u>hazardous materials</u>	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> <input type="radio"/> Project completed <input checked="" type="radio"/> <u>Project canceled</u> <input type="radio"/> Project on schedule <input type="radio"/> Anticipated completion date: _____ <input type="radio"/> Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?
The objectives identified in this goal are no longer considered FOUO. They have been included in Goal 9 of the 2022 MJHMP update.

2. What obstacles, problems, or delays did the project encounter?
None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?
This project is still relevant and remains ongoing

4. Other comments
None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and State-owned facilities, due to <u>other manmade hazards</u> .	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"><input type="radio"/> Project completed<input checked="" type="radio"/> <u>Project canceled</u><input type="radio"/> Project on schedule<input type="radio"/> Anticipated completion date: _____<input type="radio"/> Project delayed Explain _____	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

The objectives identified in this goal are no longer considered FOUO. They have been included in Goal 8 of the 2022 MJHMP update.

2. What obstacles, problems, or delays did the project encounter?

None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

This project is still relevant and remains ongoing

4. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Promote disaster resistant future development.	
Responsible Agency	El Cajon Fire Department / Heartland Fire & rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> <input type="radio"/> Project completed <input type="radio"/> Project canceled <input checked="" type="radio"/> Project on schedule <input type="radio"/> Anticipated completion date: _____ <input type="radio"/> Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Encourage and facilitate the development or updating of general plans and zoning ordinances to limit development in hazard areas.
 - The City’s general plan is currently being updated to reflect present day concerns. The Safety Element was fully updated in July of 2021.

- Encourage and facilitate the adoption of building codes that protect renovated existing assets and new development in hazard areas.
 - Various uniform building codes that pertain to safety issues are updated as new regulations are put in place.

- Discourage future development that exacerbates hazardous conditions.
 - Environmental Impact Reports are required to assess risk.
 - During the inspection process, mitigation strategies are discussed to reduce risks.

2. What obstacles, problems, or delays did the project encounter?

None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

Project remains relevant and is still ongoing

4. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Promote public understanding, support and demand for hazard mitigation.	
Responsible Agency	El Cajon Fire Department / Heartland Fire & rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> ● Project completed ● Project canceled ● Project on schedule ● Anticipated completion date: _____ ● Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Educate the public to increase awareness of hazards and opportunities for mitigation actions.
 - El Cajon utilizes established media including the City web page and Social Media sites to keep the public informed of mitigation activities.
 - The City continues hazard mitigation outreach to community members at public events, utilizing trained CERT members to provide information to residents at public events.
- Promote partnerships between the state, counties, local and tribal government to identify, prioritize, and implement mitigation actions.
 - The City continues to collaborate with regional partners in Operational Area planning through its ongoing membership on the Unified Disaster Council.
- Promote hazard mitigation in the private sector.
 - El Cajon continues to include hazard mitigation in business license renewal documents.
 - The City collaborates with East County Chamber of Commerce to engage the local business sector in hazard mitigation.

2. What obstacles, problems, or delays did the project encounter?

None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

Project remains relevant and is still ongoing

5. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Build and support local capacity and commitment to continuously become less vulnerable to hazards.	
Responsible Agency	El Cajon Fire Department / Heartland Fire & rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> <input type="radio"/> Project completed <input type="radio"/> Project canceled <input checked="" type="radio"/> Project on schedule <input type="radio"/> Anticipated completion date: _____ <input type="radio"/> Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Increase awareness and knowledge of hazard mitigation principles and practices among City employees.
 - City employees, especially those in Public Works, Code Enforcement, and Fire Services, undergo regular training on hazard mitigation.
- Explore developing a web-based Hazard Mitigation Planning System and provide technical assistance.
 - The City website allows residents to report various local hazards and safety concerns.
- Continue to enhance the Emergency Operations Center (EOC)
 - Technology used to support EOC operations is regularly evaluated and updated as necessary, including GIS capabilities.
 - On-line WebEOC training exercises are conducted quarterly for EOC staff. Staff are also made aware of incidents within the Operational Area that they can monitor, as a form of practice with WebEOC
 - The CERT program, in its present form, has built a team of 50 volunteers, trained in emergency preparedness. This group of volunteers interacts regularly with residents, providing them preparedness information.

2. What obstacles, problems, or delays did the project encounter?

None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

Project remains relevant and is still ongoing

4. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Improve hazard mitigation coordination and communication with federal, state, local and tribal governments.	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> <input type="radio"/> Project completed <input type="radio"/> Project canceled <input checked="" type="radio"/> Project on schedule <input type="radio"/> Anticipated completion date: _____ <input type="radio"/> Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Establish and maintain closer working relationships with state agencies, local and tribal governments.
 - The City continues to support local partnerships, with participation on the Unified Disaster Council (UDC) and Urban Area Working Group (UAWG) and the coordination of Automatic and Mutual aid agreements.

2. What obstacles, problems, or delays did the project encounter?

Occasional issues encountered due to COVID-19 restrictions.

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

Project remains relevant and is still ongoing

4. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and City-owned facilities, due to <u>floods</u> .	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> ● Project completed ● Project canceled ● <u>Project on schedule</u> ● Anticipated completion date: _____ ● Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Develop a comprehensive approach to reducing the possibility of damage and losses due to floods.
 - El Cajon continues to ensure finish floor elevations of new development are at least above the 100 year flood plain.
 - The City requires drainage studies for major projects to ensure adequate measures are incorporated and that they do not adversely affect downstream or other surrounding properties.
 - The City continues to limit uses in floodways to those tolerant of occasional flooding.
 - Continue to require that all new critical facilities, such as fire and police stations, hospitals and other public facilities be designed to minimize potential flood damage

- Protect existing assets with the highest relative vulnerability to the effects of floods within the 100-year floodplain.
 - The City continues to maintain flood control channels and storm drains, in accordance with habitat preservation policies, to prevent any loss in their effective use.
 - The City continues to identify and prioritize flood control projects, and to pursue available grant funds for those projects.
 - El Cajon continue to participate in the National Flood Insurance Program.

- Minimize repetitive losses caused by flooding.
 - The City has a program of preventative maintenance and inspection of floodway structures, storm drains, etc. consistent with applicable standards and continues to improve drainage courses in an environmentally sensitive manner.

2. What obstacles, problems, or delays did the project encounter? - None

3. If uncompleted, is the project still relevant? Should the project be changed or revised? - Project remains relevant and is still ongoing

4. Other comments - None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and City-owned facilities, due to <u>wildfires</u> .	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> <input type="radio"/> Project completed <input type="radio"/> Project canceled <input checked="" type="radio"/> <u>Project on schedule</u> <input type="radio"/> Anticipated completion date: _____ <input type="radio"/> Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Develop a comprehensive approach to reducing the possibility of damage and losses due to wildfires.
 - The City continues to require the application of California Fire Code pertaining to Fire Protection Plans (FPP) with regard to all new structures or require equivalent construction methods as determined by a technical fire analysis.
 - The City requires that street widths, paving, and grades can accommodate emergency vehicles.
 - El Cajon requires fire resistant construction materials in all areas.
- Protect existing assets with the highest relative vulnerability to the effects of wildfire.
 - The City continues to enforce its weed abatement ordinance.
- Coordinate with and support existing efforts to mitigate wildfire hazards (e.g., US Forest Service, Bureau of Land Management).
 - The City participates in the California Fire Master Mutual Aid Agreement, the San Diego County Fire Master Mutual Aid Agreement, and the Heartland Zone Automatic Aid Agreement.
- Maintain adequate emergency response capabilities.
 - El Cajon continually evaluates service level impacts and needs as part of the review of major projects.

2. What obstacles, problems, or delays did the project encounter?

None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

Project remains relevant and is still ongoing

4. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and City-owned facilities, due to severe weather as a possible result of the effects of climate change. (e.g., El Nino storms/, thunderstorms, lightening, tsunamis, and extreme heat and drought).	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> ● Project completed ● Project canceled ● <u>Project on schedule</u> ● Anticipated completion date: _____ ● Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

6. What was accomplished for this project during this reporting period?

- Develop a comprehensive approach to reducing the possibility of damage and losses due to severe weather.
 - El Cajon continues to ensure that existing and new storm drain and street capacities are adequate to manage a 100 year flood event.
 - The City continues to ensure that new construction projects include surface drainage management that will preserve the integrity of the facility and public infrastructure.
- Protect existing assets with the highest relative vulnerability to the effects of severe weather.
 - The City protects existing essential service facilities by retrofitting or maintaining severe weather utilities and infrastructure such as emergency generators, heating, ventilation and air conditioning systems, and information technology infrastructure.

7. What obstacles, problems, or delays did the project encounter?

None

8. If uncompleted, is the project still relevant? Should the project be changed or revised? –

Project remains relevant and is still ongoing

9. Other comments

None

SECTION SEVEN: Keep the Plan Current

Mitigation Action Progress Report Form

Progress Report Period	From Date: February 2018	To Date: February 2023
Action/Project Title	Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/infrastructure, and City-owned facilities, due to <u>geological hazards</u> .	
Responsible Agency	El Cajon Fire Department / Heartland Fire & Rescue	
Contact Name	Andy McKellar	
Contact Phone/Email	619-772-2897 amckellar@heartlandfire.org	
Project Status	<ul style="list-style-type: none"> <input type="radio"/> Project completed <input type="radio"/> Project canceled <input checked="" type="radio"/> Project on schedule <input type="radio"/> Anticipated completion date: _____ <input type="radio"/> Project delayed Explain _____ 	

Summary of Project Progress for this Report Period

1. What was accomplished for this project during this reporting period?

- Develop a comprehensive approach to reducing the possibility of damage and losses due to geological hazards, including
 - El Cajon requires soil reports and implement its recommendations for projects in identified areas where liquefaction or other soil issues exist.
 - The City continues to review all new construction to ensure conformance with seismic requirements specified in the California Building Code.
 - The City requires a preliminary soil report and a report of satisfactory placement of fill prepared by a licensed civil engineer for all buildings and structures supported on fill.
 - The City requires a preliminary report for all buildings and structures supported on natural ground unless the foundations have been designed in accordance with Table No. 1806.2 of the Building Code.
- Protect existing assets with the highest relative vulnerability to the effects of dam failure.
 - The City requires seismic retrofits for major renovations in accordance with Historic and Building Code provisions and utilizes the California Building Code for Building Conservation for non-historic buildings.

2. What obstacles, problems, or delays did the project encounter?

None

3. If uncompleted, is the project still relevant? Should the project be changed or revised?

Project remains relevant and is still ongoing

4. Other comments

None

SECTION SEVEN: Keep the Plan Current

7.2 Plan Update Evaluation

Plan Section	Considerations	Explanation
Planning Process	Should new jurisdictions and/or districts be invited to participate in future plan updates?	Yes, as new business and/or community sector organizations form during the next project period
	Have any internal or external agencies been invaluable to the mitigation strategy?	El Cajon Public Works – Engineering El Cajon Public Works – Environmental Sustainability El Cajon Police Department El Cajon / Heartland Fire & Rescue - Emergency Management El Cajon / Heartland Fire & Rescue - Emergency Services El Cajon / Heartland Fire & Rescue - Fire Prevention El Cajon Information Technology Department - GIS Community Emergency Response Team (CERT)
	Can any procedures (e.g., meeting announcements, plan updates) be done differently or more efficiently?	Yes, the continuance of virtual meetings developed during the worldwide pandemic.
	Has the Planning Team undertaken any public outreach activities?	Yes, a variety of outreach activities continue to be developed and implemented and are ongoing.
	How can public participation be improved?	While we already have strong community support, El Cajon continues to seek ways to improve public participation.
	Have there been any changes in public support and/or decision- maker priorities related to hazard mitigation?	The COVID-19 pandemic showed conflicting priorities related to public support of mitigation efforts.
Capability Assessment	Have jurisdictions adopted new policies, plans, regulations, or reports that could be incorporated into this plan?	Yes, updated hazard mitigation plans are part of an ongoing aspect of El Cajon’s mitigation efforts.
	Are there different or additional administrative, human, technical, and financial resources available for mitigation planning?	As staff positions change, and budget priorities shift, this capability may see some limitation of available resources.
	Are there different or new education and outreach programs and resources available for mitigation activities?	El Cajon is always striving to incorporate new outreach programs and resources into its mitigation activities.
	Has NFIP participation changed in the participating jurisdictions?	No change indicated.
Risk Assessment	Has a natural and/or technical or human-caused disaster occurred?	COVID-19 pandemic.
	Should the list of hazards addressed in the plan be modified?	Not at this time
	Are there new data sources and/or additional maps and studies available? If so, what are they and what have they revealed? Should the information be incorporated into future plan updates?	As new sources of GIS products, and technological tools (mobile apps, etc.) emerge, they will be identified and incorporated in future plans.
	Do any new critical facilities or infrastructure need to be added to the asset lists?	Not at this time.
	Have any changes in development trends occurred that could create additional risks?	Any significant changes in development trends will be monitored and addressed in plan updates.
	Are there repetitive losses and/or severe repetitive losses to document?	According to the 2022 FEMA Repetitive Loss Summary Report, The City of El Cajon has 4 Repetitive Loss properties and 1 Severe Repetitive Loss property.

TABLE 7.2.1: PLAN UPDATE EVALUATION - 7.2 DATA.

SECTION SEVEN: Keep the Plan Current

Plan Section	Considerations	Explanation
Mitigation Strategy	Is the mitigation strategy being implemented as anticipated? Were the cost and timeline estimates accurate?	Yes, the current plan was used in the 2021 update of the General Plan Safety Element.
	Should new mitigation actions be added to the Action Plan? Should existing mitigation actions be revised or eliminated from the plan?	As additional migration actions are identified, they will be considered for addition to the plan.
	Are there new obstacles that were not anticipated in the plan that will need to be considered in the next plan update?	Unknown
	Are there new funding sources to consider?	Unknown
	Have elements of the plan been incorporated into other planning mechanisms?	Yes, the Mitigation Plan was used to inform the development of El Cajon's General and Sustainability Plans
Plan Maintenance Procedures	Was the plan monitored and evaluated as anticipated?	Yes
	What are needed improvements to the procedures?	Ensure continued monitoring and evaluation by Emergency Management and involved city departments during the next project period.

TABLE 7.2.2: PLAN UPDATE EVALUATION - 7.2 DATA CONTINUED.

7.3 Plan Implementation and Integration

Following adoption of the Multi-Jurisdictional Hazard Mitigation Plan by the San Diego County Board of Supervisors, the City of El Cajon Local Planning Group will present the El Cajon Annex to City Council for approval. After adoption by the City, documentation of implementation of the Mitigation Actions will begin.

The Mitigation Actions will be used to inform future iterations and updates of the General Plan and its Safety Element, the Emergency Operations Plan, the Sustainability Plan, and any other future plans that were the Hazard Mitigation plan could have bearing.

Leadership the Community Development team, Fire Department, GIS and Law Enforcement meet on a regular basis to review all new plans submitted to the City, and all tenant improvements submitted. Each department reviews all plans and must approve them before moving forward.