



2022 LHMP Annual Review Report

Overview

In 2021, the City of Victorville adopted the latest version of its Local Hazard Mitigation Plan (LHMP) to guide the City’s disaster risk reduction efforts and meet regulatory requirements. The primary purpose of the LHMP Annual Review is to document City department and partner progress implementing the plan. This includes capturing the status of mitigation actions and projects identified in the LHMP, additional efforts that help advance the plan’s goals, as well as any new actions or projects needed or desired to reduce the likelihood or impact of hazard events. The review’s secondary purpose is to document hazard events and changes to the City’s hazard exposure, risk, and capabilities. This allows the City to update the LHMP to reflect real-world changes while decreasing the future cost and effort necessary to conduct the mandatory five-year comprehensive plan update. The data for the report was gathered from the City, open-sources, and a public survey.

Acknowledgements

Development of this report was commissioned and led by the City of Victorville’s Emergency Management staff. However, it could not have been created without the contributions of each City department, whose representatives are listed at the end of this report, and the citizens who completed the 2022 Hazard Mitigation Survey. Report development was facilitated and supported by Outrider Insight LLC.

Status of Planned Mitigation Actions

When developing a LHMP, City departments identify desired mitigation actions for managing the City’s disaster risk, pending available resources, and funding. In the ensuing years, the City often implements additional actions and projects as opportunities arise, while identifying new ones for future effort. These are identified as “Planned”, “Additional”, and “New” respectively in this report. The current numbers and status are summarized below, with detailed descriptions and status information captured in *Annex 1*.

- **Planned (Scheduled and Ongoing):** Of 43 actions identified in the 2021 LHMP, six were tentatively scheduled for completion in 2022 or earlier. Of these, two are complete, three are underway, and one has not been started. Of 27 ongoing actions, implementation actions were reported for 25.
- **Additional:** City departments completed or started seven additional mitigation actions in 2022.
- **New:** City departments identified 14 new mitigation actions in 2022 for future planning and implementation should the necessary resources and funding be available.

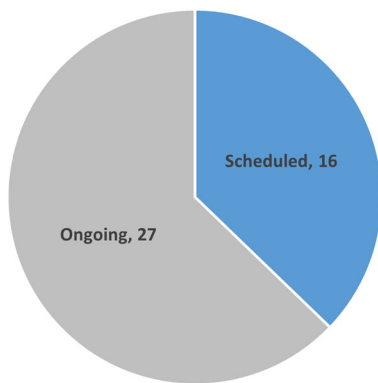


Figure 1 – Planned Action Breakdown

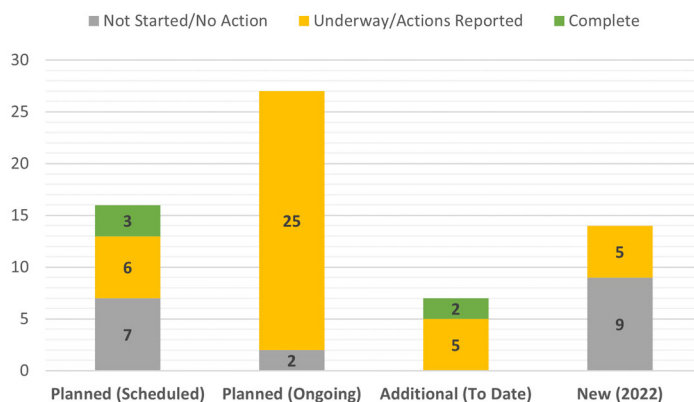


Figure 2 – Status of All Mitigation Actions



Hazard Events During 2022

Below is a summary of hazard events that have occurred in the City of Victorville and had a tangible impact on the community. The available hazard event data does not contradict the existing Hazard Risk Ratings or Profiles in the current LHMP. As such, *an update of this content prior to the plan's formal 5-year update is not currently indicated*. Details of specific events are captured in Annex 3.

- **Hazardous Material Spills:** The Southern California Logistics Airport experienced three spills of Jet-A fuel during fueling and defueling operations totaling approximately 63 gallons. Response measures contained the event and prevented spilled fuel from reaching soil or storm drains.
- **Extreme Heat:** In September 2022, California experienced a significant heat wave causing a spike in heat related illnesses (particularly among the homeless). It also placed immense strain on the power grid, requiring emergent power use reductions state-wide. In response, the City of Victorville activated cooling centers, cut power usage for non-critical functions, and conducted public messaging requesting the public to do the same. Rotating outages statewide were barely averted.
- **High Winds/Severe Storms:** One high wind event knocked down fencing at Sunset Ridge Park, causing approximately \$70,000 in damages and forcing the closure of the tennis courts until repairs can be completed (ongoing as of March 2023).
- **Pandemic:** The COVID-19 Pandemic that started in March 2020 continued into 2022 with new variations of the disease continuing to cause periodic, though heavily reduced, spikes in infection (reduced by ongoing vaccination efforts). Economic recovery and community support efforts continued throughout the year with public health programming beginning to transition to regular operations. The state COVID-19 emergency declaration ended in October 2022. According to San Bernardino County Public Health, the County experienced approximately 8,171 confirmed deaths and 708,621 confirmed infection cases across the whole pandemic. The total cost and impact to the Victorville community are unknown but based on reports from the Centers for Disease Control and Prevention (CDC) and California Department of Health, the total impact is likely to fall within the tens of millions of dollars.
- **Structure Fire:** One major structure fire at the Rock View Nature Park Community Building caused approximately \$65,000 in damage and forced closure of the facility for the duration of restoration efforts (ongoing as of March 2023).

Changes to Available Capabilities and Resources

A key part of the LHMP is an assessment of the existing capabilities and resources available to the City to mitigate hazards. These take the form of plans and regulations, administrative and technical (such as personnel or programs), financial, education or outreach, and participation in the National Flood Insurance program. The following sections provide an overview of identified changes to resources available from inside or outside the City over the past year. Detailed information can be found in Annex 3.

Based on available information, the major changes identified below do not represent a substantial change to the Capabilities Assessment in the original LHMP. As such, *an update of this content prior to the plan's formal 5-year update is not currently indicated*.

Internal (City Government and Community)

The following changes are specific to capabilities and resources known to be internally available to the City government and its community partners.



- **Safety Element Update:** In 2022, the Planning Department completed planned updates to Victorville’s General Plan Safety Element. This document, and its update, are documented in the current version of the LHMP.
- **Public-Private Partnerships:** Relationships and accounts were created with Home Depot and Belfor USA to support rapid bulk ordering of supplies and expedited repairs to City facilities. These expand capacity for preparedness, response, and recovery efforts.
- **Fire and HAZMAT Capabilities:** A project to comprehensively update the City’s HAZMAT response capabilities is underway. This will update and expand response and recovery capabilities. Additionally, the City opened a new fire station. These will be engaged to support existing mitigation capabilities and programming.
- **Technology Upgrades:** The City adopted, or is in the process of deploying, several technology systems that will support mitigation efforts by expediting, streamlining, or automating existing processes. These include software for automating preventative maintenance work orders to minimize risks caused by potential equipment failure and improved virtual permitting, plan review, and remote work systems.

External (Regional, State, Federal, Private Partners)

No major changes were identified regarding capabilities and resources available to the City via external sources such as Regional, State, and Federal agencies.

Changes to City Hazard Exposure, Vulnerability, and Risk

The LHMP evaluates the likelihood and potential impact of hazard events by profiling hazards and conducting a vulnerability and risk assessment focused on critical facilities and assets, cultural and natural resources, and where practicable, vulnerable populations. The following section captures new additions to the existing assessment and substantial changes to prior information used for the evaluation.

Based on the available information, the changes identified below do not represent a substantial change to inputs or outputs of the Vulnerability and Risk Assessment in the original LHMP. As such, *an update of this content prior to the plan’s formal 5-year update is not currently indicated.*

- **New Public Facilities:** A new wellness center is under construction adjacent to the Mojave river within the flood plain, and a new water booster station was built within an area identified for seismic hazards. Current location-specific flooding and seismic code requirements have been integrated into their designs respectively.

Summary of Proposed Changes to the LHMP

The following changes have been recommended for the LHMP based on the developments captured in this report. The purpose of these changes is to maintain the functional useability of the plan. *Changes are limited to implementation plan elements.*

- **Integrate New Mitigation Actions:** Formally integrate the 14 new mitigation actions identified by the annual review working group into the LHMP’s mitigation action plan. Actions proffered by community members in the survey will be evaluated for implementation during the year. These are listed in Annex 1, Table 3.
- **Minor Updates to Planned Mitigations:** Action 2.2 will be updated to reflect removal of City Hall display racks and Action 3.3 will be amended from “Encourage the purchase of earthquake insurance” to “Develop and implement strategies to communicate benefits of earthquake hazard



insurance to the public”. Update timelines and priorities of planned mitigation actions to reflect Annex 1. Update mitigation action responsible parties as indicated below (note that these changes have been integrated into Annex 1).

- Action 3.3: Add Public Information
- Action 3.11: Add Technology and Engineering
- Action 3.12: Add Building Division and Engineering Department
- Action 4.1: Change responsible parties to City Manager’s Department and Community Services Department
- Action 4.3: Add Engineering Department
- Action 5.5: Add Public Information
- Action 5.7: Add Public Works

LHMP Annual Review Working Group Members and Contributors

The following City department representatives served on the 2022 LHMP Update Planning Team, assisted in data collection, and/or contributed to the final report. The 2022 LHMP Update Planning Team collected critical information, represented their department’s perspective, and/or provided final review and approval of the draft report prior to its submission to City Council. Additional support in data collection was provided by support staff of the departments and divisions listed below.

Office/Department/Division	Representative or Contributor
City Manager’s Department	Jenele Davidson
Fire	Dana Wellborn
Public Information	Sue Jones
Planning	Travis Clark and Alex Jauregui
Public Works	Doug Mathews
Building	Joe Slegers
Community Services	Eddie Gleason
Engineering	Brian Gengler
Southern California Logistics Airport	Eric Ray and James Murawski
Victorville Water District	Arnold Villarreal and Doug Mathews



Annex 1: Detailed Status of Hazard Mitigation Actions and Projects

Table 1 – Status of Planned Mitigation Actions and Projects

#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
1.1	Encourage private property owners of un-reinforced masonry structures to complete seismic retrofits. <i>(Building)</i>	High	Ongoing	N/A	N/A	On-going effort to contact property owners with applicable properties. Reviewed and encouraged in conjunction with applications for tenant improvements, building additions, and building repairs. Reinforcement required in conjunction with any permit request that includes structural repairs or elements that will compound safety concerns regarding non-compliant un-reinforced masonry structures.
1.2	Encourage seismic strength evaluations of critical facilities in the City to identify building integrity. <i>(Building)</i>	High	Ongoing	N/A	N/A	On-going, with identification and planned mitigation strategies and timelines being implemented by Facilities, Water, and Public Works Departments/Divisions.
1.3	Evaluate City and non-City facilities identified as potential shelter sites for structural integrity. <i>(Building; Fire; Planning)</i>	High	Ongoing	N/A	N/A	On-going, with facility identification, evaluation, and mitigation strategies/timelines being developed by Facilities. The City obtained a grant to fund, and began construction on, a Wellness Center to house the homeless. Grant obtained as a joint departmental effort.
1.4	Identify and pursue funding opportunities to develop and implement local mitigation activities. <i>(Fire)</i>	High	Ongoing	No	No	Grant for City Wellness Center pursued and won.
1.5	Acquire the latest Emergency Action Plan for the DWR owned Cedar Springs Dam and the USACE owned Mohave Forks Dam. Continue to participate in annual training on dam emergencies. <i>(Fire)</i>	High	1 Year	+1 Year	No	Work in progress. Awaiting a response from USACE regarding EAPs for dams. Not able to attend 2022 annual dam emergency training.
1.6	Continue to identify natural drainage courses and designate City drainage	High	Ongoing	N/A	No	Ongoing; The Engineering Department reviews new developments near drainage easements and drainage



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
	easements to preserve natural drainage flow paths and/or constructed drainage facilities. (Engineering)					courses to ensure that new projects do not impact the drainage courses. Any required improvements to mitigate impact are constructed with the new development.
1.7	Conduct repair and flood mitigation to sewer at Turner Wash Trunk, north of Mojave Dr., to include realignment of the sewer line. (Public Works; Engineering)	High	1-3 Years	No	No	The Engineering Department has not started the Turner Wash improvements. Action is contingent on funding availability.
1.8	Repair damage and mitigate further flood risk to access road running along the Ossum Wash, North of Capistrano St. and South of Rancho Rd. (Public Works; Engineering)	High	1-3 Years	No	No	No update. Action is contingent on funding availability.
1.9	Mitigate wash-out problems caused by flooding events at Eucalyptus St., East of Cloverly St. (Public Works; Engineering)	High	1-3 Years	No	No	No update. Action is contingent on funding availability.
1.10	Conduct storm drain improvements at Rodeo and Pebble Beach to prevent flooding. (Engineering)	High	1-3 Years	No	No	No update. Action is contingent on funding availability.
1.11	Conduct analysis and then acquire and deploy new generators for pre-planned critical facilities. (Public Works; Engineering)	Med.	1-3 Years	No	No	No update. Responsible departments coordinating and planning effort.
2.1	Develop a public outreach and awareness program about hazards in the City and mitigation actions community members can do in their homes (Fire, Public Info.)	High	Ongoing	No	No	See updates for actions 2.2 and 2.4.
2.2	Increase public awareness of natural, human-caused, and technological	High	Ongoing	No	No	Information is on social media. Some information is displayed on customer service counters. Public display racks



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
	hazards to businesses to reduce potential damage from each hazard through education and outreach. Provide information on City websites and social media accounts. (Fire; Public Info.)					removed due to limited access points created by increased City Hall security measures. However, the information is shared at several public outreach events hosted throughout the year: Fall Festival, Concerts in the Park, Spring Festival, Fire Open House, etc. This information is also provided on the City Website and through various public engagement projects (see 2.4).
2.3	Provide information on tools, partnership opportunities, and funding resources for business and philanthropic organizations to assist in implementing mitigation activities. (Fire; Planning)	High	Ongoing	N/A	N/A	Ongoing, with Community Development Block Grant (CDBG) and HOME Investment Partnership (HOME) funding available annually to assist philanthropic organizations in providing services to eligible participants. Health and safety measures are the priority in utilizing CDBG/HOME Funds per project guidelines. Additional information being added to the City's website as part of update project.
2.4	Place more emphasis on the risks associated with natural and manmade hazards through public awareness campaigns conducted by various City departments. (All)	High	Ongoing	N/A	N/A	<p>Ongoing, with City's Public Information Department utilizing social media channels to provide information on relevant topics as well as Development and Public Works projects, ensuring natural and manmade hazards are addressed with the public throughout the project lifecycle.</p> <p>Spring and Fall Festivals feature in-person engagement on emergency preparedness and distribution of emergency supplies. Additional events on the schedule. Specific relevant public awareness campaigns include:</p> <ul style="list-style-type: none"> • Natural Gas Leaks/Dig Alert Campaign: Social media posts throughout the year. • Water Conservation Campaign, "Every Drop Counts": Concentrated campaign on social media June – August 2022, and some messaging ongoing. • Illegal Fireworks Safety Campaign, "If you light it, we'll write it," concentrated social media messaging, radio PSAs, geofencing, digital advertising, Memorial Day – July 4



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						<p>2020, 2021, and 2022. Illegal fireworks reports decreased 88 percent from 2020 – 2022.</p> <ul style="list-style-type: none"> • House Fire Safety & Prevention: National Fire Prevention Week social media campaign, October 9 – 15, 2022. Also conducted in-person open house at Fire Station 315 shared educational information and tips. • Heat-Related Issues: Shared information about City cooling center on social media and shared messaging to reduce electrical usage to relieve strain on power grid, Sep. 2 – 6, 2022 • Traffic Safety Campaign: Concentrated social media campaign, July – August 2022 • Victorville Fire partnered with American Red Cross on their smoke detector campaign. Community members can receive free smoke detector with free installation.
2.5	Partner with local insurance agencies to hold workshops for property owners to educate about the Flood and Earthquake Insurance Programs and their requirements. (Economic Dev; Fire; Building)	High	Ongoing	N/A	N/A	Not started.
2.6	Increase public awareness of dam failure hazards and mitigation measures to address them (Fire)	High	Ongoing	No	No	Information provided via Spring and Fall Festivals, with more being updated as part of City website update. Looking into having county flood control and state entities come into town to review their plans and capabilities. Updated website will include inundation maps.
2.7	Implement a defensible space public education program (Fire)	High	1 Year	Ongoing	No	Some education events conducted, but no regular schedule established yet. Work in progress.
3.1	Improve hazard assessment information to make recommendations for avoiding new development in high-hazard areas and	Med.	Ongoing	N/A	N/A	The recent adoption of the updated Safety Element of the General Plan includes various implementation measures to ensure avoidance of new development in high hazard areas such as areas prone to flooding. The recently updated Land



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
	encouraging preventative measures for existing development in areas vulnerable to natural, man-made, and technological hazard. (Building; Planning)					Use Element of the General Plan designated areas prone to flood mainly as agricultural or open space, which prohibits large scale development. Preventative measures such as compliance with the California Building Code and drainage improvements are also required with all new development.
3.2	Seek to implement codes, standards, and policies that will protect life and property from the impacts of hazards (Planning; Building)	High	Ongoing	N/A	N/A	The recent adoption of the updated Safety Element, as well as the Land Use Element of the General Plan include various goals, policies, and measures aimed at protecting life and property from hazards. Additionally, the City triennially adopts the Title 24 California Building Code update to ensure compliance with up to date standards.
3.3	Develop and implement strategies to communicate benefits of earthquake hazard insurance to the public. (Building; Planning; Public Info.)	High	Ongoing	N/A	N/A	The City's Public Information Department may consider utilizing social media channels to promote. Work in progress.
3.4	Integrate appropriate items from the LHMP into the Safety element of the General Plan and other regulatory documents as appropriate. (Planning)	High	1 Year Under Contract	N/A	N/A	The City recently adopted the updated Safety Element of the General Plan, which integrated and referenced the most recent LHMP. Complete.
3.5	Identify water resources management and conservation opportunities. (Victorville Water District)	High	Ongoing	N/A	None	Ongoing
3.6	Develop disaster debris management plan (Public Works; Fire)	High	1-3 Years	No	No	Not started. Responsible departments looking to start coordination of funding, stakeholder engagement, and plan preparation once ongoing EOP update project is complete.
3.7	Continue to use development regulations with building and fire codes to set building placement, water supply, fire protection/prevention, and construction requirements (including fuel reduction and defensible space). (Planning)	High	Ongoing	N/A	N/A	The recently updated Land Use Element of the General Plan, the adopted Title 24 standards, City Municipal Code standards, and Fire Prevention regulations are cumulatively implemented from the initial review of any new development through the City's Pre-Submittal Review process, at which time building placement, water supply, fire protection/prevention and construction requirements are



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
						outlined for implementation during the entitlement phase of development and into permitting/construction.
3.8	Update building codes as new technology and data becomes available (Planning; Building)	High	Ongoing	N/A	N/A	The City triennially adopts Title 24 California Building Code update to ensure compliance with the most up to date standards and strives to implement any other standards as they become available (e.g. State Legislative Bills and Federal requirements).
3.9	Seek grant funding for City vulnerability study. (Fire)	High	1-3 Years	No	No	Not started.
3.10	Work with County to prepare/maintain local area drainage plans, establish funding mechanisms to support backbone draining system for watershed, and create flood control facilities where warranted. (Public Works; Engineering)	High	Ongoing	No	No	No update. Funding needed to initiate.
3.11	Maintain and regularly update integration of FEMA floodplain and flood insurance map data with City land-use planning maps, drainage maps, and GIS systems. Supplement data with overflow studies and maps from City Engineer or San Bernardino County Flood Control District. Regularly assess City flood risk. (Planning; Engineering; Technology)	High	Ongoing	N/A	N/A	The recently updated Land Use Element of the General Plan designated areas prone to flood mainly as agricultural or open space, which prohibits large scale development. These designations were adopted in coordination with FEMA data and drainage maps with the City's Engineering Department and regional entities who were active participants in their creation.
3.12	Implement and maintain development regulations permitting requirements and building code specifications that promote flood risk identification, assessment, and mitigation actions, to include: Site studies/written	High	Ongoing	N/A	N/A	The recently updated Land Use Element of the General Plan, the adopted Title 24 standards, City Municipal Code standards and Fire Prevention regulations are cumulatively implemented from the initial review of any new development through the City's Pre-Submittal Review process, at which point required special studies, plan



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
	assessments to identify flood risk and downstream effects; conditional permitting for new construction and renovations that require flood mitigation; best management practices for surface runoff control; restrictions to terrain, soil, vegetation, and topography changes that affect down-stream flood hazards (Planning; Building; Engineering)					revisions, and large-scale mitigation measures are identified and incorporated into future plans submitted for entitlement and ultimately permitting.
4.1	Budget for maintenance and replacement of City-owned fire/police stations (City Manager's Department; Community Services Department)	High	Ongoing	N/A	N/A	Public safety facilities may be addressed with Measure P funds available as well as other funding sources such as the American Rescue Plan Act. A new police station is currently in the early planning and design stages. Responsible parties changed from Public Works and Building to the City Manager's and Community Services Departments.
4.2	Continue to develop mutual aid agreements and memorandums of understanding with agencies to serve emergency and disaster purposes (City Manager's Office; Fire)	High	Ongoing	No	No	Agreements with Public Health for PODs and Red Cross for sheltering in place, are being maintained. Exploring further engagement with public transit for emergency transport to build on vaccination transit and evacuation cooperation during the COVID-19 Pandemic.
4.3	Continue the development of intergovernmental coordination with cities, adjacent counties, the Army Corps of Engineers, and other agencies with interest in flood control projects that cross jurisdictional boundaries (Fire; Planning; Engineering)	High	Ongoing	N/A	N/A	No updates. Still waiting for reports/plans from dam agencies. In the meantime, the City's development review process (Pre-Submittal review, entitlement, and building permitting) ensures intergovernmental coordination for projects developed near or that may be impacted by flood and associated facilities.



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
4.4	Coordinate land use and flood control planning through staff contacts between the County Flood Control District, Special Districts, and Cities within the County and through the annual review of the Capital Improvements Program (<i>Public Works; Engineering; Planning</i>)	High	Ongoing	N/A	N/A	Ongoing.
5.1	Maintain cloud storage for vital records/data to allow access if City servers are disrupted. (<i>Technology</i>)	High	Ongoing	N/A	None	Ongoing.
5.2	Continue to coordinate with utility companies and vendors to strengthen, safeguard, or take other appropriate measures such as providing supplemental services, protecting, and securing high-voltage lines, water, sewer, natural gas, and petroleum pipelines, trunk electrical, and telephone conduits from hazards. Continue to exchange information on critical infrastructure status and operations. (<i>Public Works</i>)	High	Ongoing	No	No	In development. Need to discuss and explore further.
5.3	Build a cadre of committed, trained volunteers to augment disaster response and recovery efforts in compliance with CA Disaster Service Worker program guidance, during and after a disaster (<i>Fire</i>)	High	Ongoing	No	No	Working on disaster service worker policies, documentation, and training. Ongoing effort to update job descriptions of City employees. Aim is to develop, and regularly deliver orientation and refresher training to new and continuing employees.
5.4	Develop and implement plan to create Community Emergency Response Teams (<i>Fire</i>)	High	1-3 Years	No	No	Not started.



#	Abbreviated Description (Responsible Department/Division)	Priority	Timeline from 2021	New Timeline?	New Priority?	Status and Comments
5.5	Develop and implement a plan to create a City emergency communications system (Public Info.; Fire)	High	1-3 Years	No	No	Work in progress. City uses a quick-alert system for internal employees. Scoping efforts ongoing. Public Information will be added as a responsible party.
5.6	Develop flood plain inundation evacuation plans through the County OES. (Engineering)	High	1 Year	1-3 Years	No	No update
5.7	Install “Turn Around Don’t Drown” signs at flood crossings in the City. (Public Info.; Fire; Public Works)	High	1 Year	1-3 Years	No	Complete
5.8	Implement low-power AM radio system to augment reverse 911 public notification capabilities during emergencies. (Fire)	High	1-3 Years	No	No	Work in progress. Scoping project.
5.9	Acquire pandemic support resources to expand capacity to provide field technical support, alternative care sites, mass care, and hospital surge support. (Fire)	High	1 Years	No	No	Grant obtained during COVID along with necessary supplies to deliver most capabilities (treatment sites and mass care). Maintenance ongoing. Task essentially complete.

Table 2 – Additional Mitigation Actions and Projects Started or Completed

Title (Reporting Entity)	Est. Completion Date	Description
Recurrent HAZWOPPER Training (Airport)	Ongoing (Next on 06/2024)	Retraining on proper method for dealing with hazardous substances, adopted as Best Business Practice.
Recurrent Annual Emergency Plan Meeting and Tabletop (Airport)	Ongoing (every October)	Required under FAR Part 139.325.
Security Site Assessment (Community Services)	Complete (June 2019)	The City hired Triad Consulting to assess various City facilities and report on the areas of vulnerability in regards to security. The report identifies security concerns for each facility and provides recommendations for mitigation.



Title (Reporting Entity)	Est. Completion Date	Description
Updated Safety Element (Planning)	November 2022	An update to the Safety Element of the City’s General Plan was adopted in November 2022 and assesses potential hazards relating to geologic and seismic, fire/wildfire, extreme heat and precipitation, drought, and aircraft mishap. This plan includes updated goals, objectives, policies, and implementation measures to address the impact of hazard events.
Public safety building (City Manager’s Department; Planning; Building; Engineering; Community Services)	May 2026	Initiated design for new public safety building to house police department and potentially code compliance/code enforcement and potentially the fire department.
Ham Radio Class (Risk Management)	Ongoing	Building certified HAM operators regionally for emergency capacity.
Stop the Bleed Training (Risk Management)	Ongoing	Restored in-person classes disrupted by the Pandemic.

Table 3 – New Mitigation Actions and Projects Needed or Desired

Description	Priority	Timeline	Funding Source	Estimated Cost
Demolish Taxiway C2 to eliminate airfield “HOTSPOT” to prevent wrong runway takeoffs at runway intersection. (Airport)	High	2023	AIP Grant	\$1.5 Million
Establish an Emergency Stand-By Agreement with a preferred restoration contractor to further streamline mitigation response and repairs in the case of emergency projects. (Community Services)	Moderate	1-2 years from 2022	General Fund	Requires Study
Camera Installation at various City facilities and parks (Community Services)	High	In-progress. 1-2 years from 2023	ARPA, CDBG, General Fund	Currently obtaining quotes
Modifications to City facilities and parks as recommended in the Security Site Assessment (Community Services)	High	In-progress. 1-2 years from 2023	ARPA, CDBG, General	Currently obtaining quotes
2-way Communications System. This proposed project would add Community Services, to include Parks and Facilities divisions, to the City’s current radio communications system, the funding would cover the purchase of handheld radios and truck mounted units, along with programming. Recreation may also be added if the department sees fit. (Community Services)	Moderate	1-3 years from 2023	General Fund	\$46,000



Description	Priority	Timeline	Funding Source	Estimated Cost
Implement the goals, objectives, polices, and implementation measures outlined in the updated 2021 Safety Element of the General Plan. <i>(All)</i>	High	Ongoing	General Fund, General Plan Surcharge Fee's, & Available Grants.	N/A
Public Works DOC command center: VVPD has purchased a new mobile command center, and they are willing to transfer their existing mobile command trailer to Public Works. The trailer would be outfitted with Public Works radios and necessary supplies to be able to operate in the event of a need. <i>(Public Works)</i>	Moderate	1-2 years from 2023	Several funding sources: Gas Tax, Measure I, Measure P, & Sanitary Sewer funds	\$10,000
Pursue grant funding available for Drought Relief at the Federal and State levels <i>(Water District)</i>	High	Ongoing	Federal / State	Varies
AMI migration from AMR for greater resource accountability and ease of auditing <i>(Water District)</i>	High	3 years from 2023	Water Budget/Rates	\$3 million
Increase Conservation staffing levels for functions regarding drought resiliency and resource sustainability <i>(Water District)</i>	High	1 year from 2023	Water Budget/Rates	\$150K
Increase Line Locating staffing levels – reduce damages to infrastructure <i>(Water District)</i>	High	1 year from 2023	Water Budget/Rates	\$150K
Reclaimed Water Tank/Booster Station at SCLA West Winds Golf Course Location <i>(Engineering; Water District)</i>	High	1-3 years from 2023	Exploring Options	\$3 million
SCADA Servers – isolate SCADA system from City network and Internet to prevent cyber-attacks <i>(Water District; Technology)</i>	High	1-3 years from 2023	Possible ADR grant through Edison	Discussing projected cost
Entire Water System – evaluate/revisit planning associated with readiness for Black Sky Event (examples: fuel storage, fuel delivery trailers, Water EOC, power backup etc.) <i>(Water District)</i>	High	1-3 years from 2023	Possible grant for fuel trailers (Cal-WARN)	Requires Study



Annex 2: Public Engagement Hazard Mitigation Survey Results

To engage the public in the annual review process, an electronic survey was prominently published on the City website and publicized through a series of posts on the City’s social media pages. The survey was open for a total of 46 days from January 1 to February 15, 2023. The survey garnered a total of 16 responses. An overview of the survey responses can be found below.

Question 1: Please indicate if you live or work in the City of Victorville.

Of the 16 respondents, seven live in Victorville, five work in the city, and four both live and work in the City.

Question 2: In 2021, the City of Victorville identified the following hazards. Please select the ones you believe most likely to affect you, your family, employer, and/or business in Victorville.

Respondents to this question were provided a list of 13 hazards identified and prioritized in the 2021 LHMP. The leading hazards of concern were high winds/severe storms and extreme heat with 12 and 11 votes respectively. These were followed by drought, earthquake, and power failure/public safety power shutoff with eight votes each and fire/wildfire following with seven votes. Of note, no respondents voted for dam inundation despite the region’s significant exposure to the hazard.

Question 3: In the past year, have you, your family, employer, and/or business been affected by any of these hazards in Victorville? If so, in the box below, please briefly describe the effect they had.

Only nine of the 16 respondents completed this question. Of these, only six identified hazards or described impact. The most frequently mentioned issues were extreme heat events, power outages, and wind damage. Related impacts included air quality and breathing issues, as well as work disruptions due to power outages. A few notable individual responses noted a desire for additional storm drains, streetlights, and highlighted extensive dumping occurring on Cantina Drive between Luna Road and Dos Palmas.

Question 4: In the past year, have you noticed any new facilities, locations, or communities in Victorville that seem to be at risk of these hazards? If so, please list and describe below.

In terms of new areas at risk of hazards, respondents identified: Mojave River Valley communities (hazard unstated), El Evado Road on the west side up to Dos Palmas and El Evado (severe flooding), as well as general community safety and security concerns. One



Figure 3 – City Residency Status (Q1)

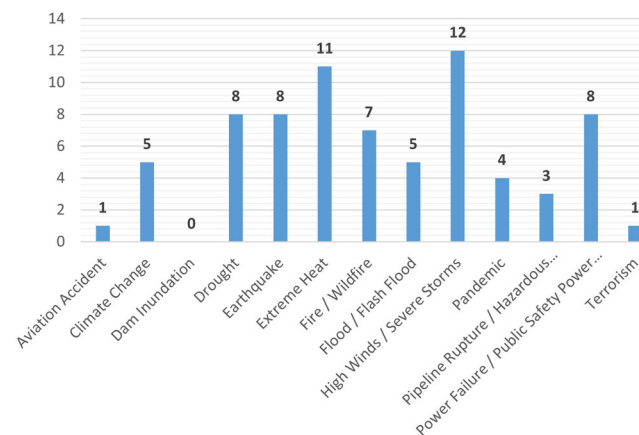


Figure 4 – Hazards of Concern (Q2)



particular response noted a developing trend in which new housing has ‘cropped up’ in open desert fields in flood plains, causing traffic congestion and road erosion.

Question 5: What actions have you taken to prepare yourself, your family, and/or your business from hazards, emergencies, or disasters? Select all that apply.

Respondents were provided with 11 options of common and highly recommended emergency and disaster preparedness actions and were allowed to select as many as they had completed. Leading actions with eight to ten responses each included first aid procurement, storage of emergency supplies, installation of smoke/carbon monoxide detectors, and identification of utility shutoffs. Just over half as frequent as the first tier of responses, with five to seven responses each, were more complex disaster preparedness actions including building a disaster kit, developing an emergency or evacuation plan, purchasing insurance, as well as pre-placing fire extinguishers. The least frequent actions identified were training and business preparedness oriented with first aid/CPR training, CERT training, and business continuity planning, garnering one to three responses.

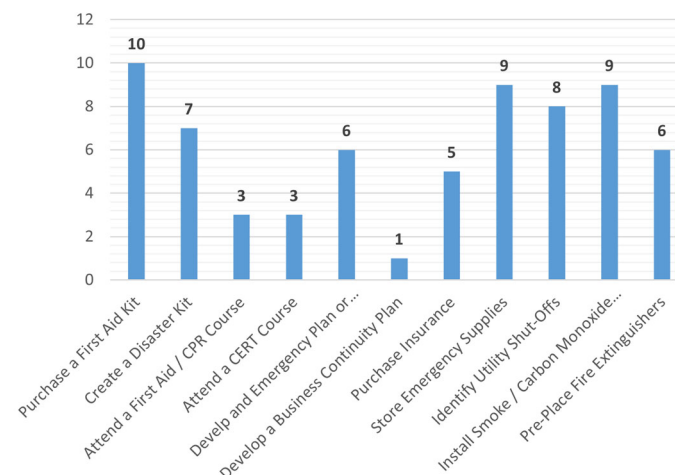


Figure 5 – Preparation Actions

Question 6: How can the City of Victorville help you, your family, business, or community become better prepared for an emergency or disaster?

Of the 16 respondents, nine provided answers to this question. Four responses indicated a desire to be kept informed about hazards and additional training and workshop opportunities particularly in high-risk neighborhoods. Two responses indicated a desire for additional law enforcement presence and installation of more streetlights on smaller streets and highways in the City. Two responses expressed a desire for the reduction of power outages potentially through community use of resilient, sustainable, and distributed power generation technologies. Additional ideas included the offering of xeriscaping credits, a free or reduced cost fire extinguisher trade or recharge program, additional senior cooling centers, and free transportation on extreme weather days.



Annex 3: Detailed List of Reported Hazard Events and Changes to Capabilities and Risks

Table 4 – Reported Hazard Events and Impacts (Reported events during 2020/21 LHMP update, and 2022 report development included to ensure data capture)

Name/Hazard Type	Approximate Date(s)	Description and Estimated Impacts (<i>Reporting Department</i>)
Extreme High Wind	5/1– 7/1/2020	Extreme high winds pulled off a large section of roof at the West Winds Sports Center. Estimated damage \$77,070. The rooms below were closed for the duration of the roof repair project. (<i>Community Services</i>)
Interior Flooding	5/1 - 7/1/2021	Water heater failed in City Hall leading to flooding in the Council Chambers and a conference room in the City Manager’s Department. Estimated \$35,000 in damage. Those areas were closed for the duration of the restoration project. (<i>Community Services</i>)
Structure Fire	8/1/2020 – 8/1/2021	Structure fire at the 8 th Street Community Center. Estimated Damages \$445,158.42. Facility was closed for the duration of the restoration project. (<i>Community Services</i>)
Pandemic	3/1/2020 – 10/1/2022	The global COVID-19 Pandemic caused city-wide strain and disruption to nearly every element of the public and private sectors straining City infrastructure and critical services to their limits. The event caused numerous fatalities and illnesses, while the resulting public health restrictions caused extensive economic losses and disruptions. General mode of City operations disrupted, forcing extensive adoption of remote-work systems and processes on short notice. Impacts to City staff resulted in limited personnel availability to conduct critical tasks and services as well as use of emergent staffing. According to San Bernardino County Public Health, the County experienced approximately 8,171 confirmed deaths and 708,621 confirmed infection cases. The total cost and impact to the Victorville community are unknown but based on reports from the Centers for Disease Control and Prevention (CDC) and California Department of Health, the total impact is likely to fall within the tens of millions of dollars. (<i>All</i>)
Fuel leak	7/17/2022	Approximately 2.5 gallons of Jet-A fuel was spilled during an aircraft fuel leak onto concrete aircraft parking area. This did not reach any soil or storm drains. Absorbent material was applied to the affected area and was subsequently removed to hazmat containers. (<i>Airport</i>)
Fuel Spill	7/19/2022	Approximately 50 gallons of Jet-A fuel were spilled during fueling operations onto concrete aircraft parking area. This did not reach any soil or storm drains. Absorbent material was applied to the affected area and was subsequently removed to hazmat containers. (<i>Airport</i>)
Extreme High Wind	9/1/2022 – Present	Extreme high winds blew over the fence surrounding the tennis courts at Sunset Ridge Park. Estimated damages \$70,000. The tennis courts will be closed until the fence can be repaired. (<i>Community Services</i>)
Heat Wave	9/2/2022 – 9/6/2022	High temperatures put community members at risk of heat-related illness, especially the homeless. Also, put tremendous strain on state energy grid. We were asked by State to cut back on electrical usage and ask our community to cut back as well, “To keep the lights on.” (<i>Public Information</i>)



Name/Hazard Type	Approximate Date(s)	Description and Estimated Impacts (<i>Reporting Department</i>)
Fuel Spill	11/19/2022	Approximately 10 gallons of Jet-A fuel was spilled during defueling operations onto the concrete aircraft parking area. This did not reach any soil or storm drains. Absorbent material was applied to the affected area and was subsequently removed to hazmat containers. (<i>Airport</i>)
Structure Fire	11/23/2022 – Present	Structure fire at Rock View Nature Park Community Building. Estimated damage of \$65,000. Facility will be closed for the duration of the restoration project. (<i>Community Services</i>)
Aviation Accident	1/18/2023	Takeoff error of MQ9 UAV, which veered off Runway 17 and caught fire in the infield between Runway 17 and Taxiway E. Runway 17 was closed until it could be inspected, and accident debris removed from the runway and connecting taxiways. Fuel (quantity unknown) leaked from the aircraft into native soil. Aircraft is still on site as of 1/27/2023 due to the Air Force continuing to conduct their investigation. (<i>Airport</i>)
Atmospheric River	12/2022 – 3/2023	Between December and March, multiple atmospheric river events occurred in California resulting in delivery of over a decade’s worth of rainfall in several months. This led to extensive flooding throughout the state and major snowfall in mountainous areas (including the San Bernardino Mountains). The event triggered both state and federal emergency declarations. Despite a declaration of emergency by San Bernardino County and participation in mutual aid activations, Victorville was minimally impacted. The damage from this event mostly consisted of minor storm drain and turf damage leading to approximately \$20,000 in overtime, cleanup, and road closure costs for Public Works. (<i>Fire</i>)

Table 5 –Reported Changes in Available Hazard Mitigation Capabilities and Resources in 2022

Name	Type	Description
Home Depot Pro	Administrative and Technical	Established relationship and obtained an account with Home Depot to order bulk PPE, disinfectant, and other sanitary supplies not available to the public. (<i>Community Services</i>)
Belfor USA	Administrative and Technical	Established a relationship with Belfor Restoration. As a preferred contractor of the City’s insurance company, the typical requirements of obtaining quotes can be bypassed enabling the repairs to be streamlined. (<i>Community Services</i>)
Facilitron Facilities Management Software	Technology	The City has recently purchased software that will automatically generate preventive maintenance work orders for any type of equipment. This will reduce the potential damages caused by equipment failure and deferred maintenance. (<i>Community Services</i>)
General Plan - Safety Element	Plans and Regulations	An update to the Safety Element of the City’s General Plan was adopted in November 2022 and assesses potential hazards relating to geologic and seismic, fire/wildfire, extreme heat and precipitation, drought, and aircraft mishap. This plan includes updated goals, objectives, polices, and implementation measures to address the impact of hazard events. (<i>Planning</i>)



Name	Type	Description
Improved Permitting, Review, and Remote Work Capabilities	Technology	Improved ability for employees to work remotely due to pandemic related sickness or quarantine was essential in maintaining standard levels of service to the community and public. This ability enabled remote plan review and permitting, grant fund application and allocation, as well as maintenance of the workforce. <i>(All)</i>
HAZMAT Response Program Improvement	Administrative and Technical	Ongoing project to comprehensively update City's HAZMAT response capabilities <i>(Fire)</i>
Station 315	Administrative and Technical	New facility in City for fire response. Includes new crews and vehicles. <i>(Fire)</i>
Water Supply Division	Other	Purchased Mobile CAT XQ570 500 kW Back Up Power Generator <i>(Water District)</i>
Water Supply Division	Other	Purchased 2x Mobile CAT XQ425 375 kW Back Up Power Generator <i>(Water District)</i>

Table 6 – Reported Changes to Hazard Exposure, Vulnerability, and Risk in 2022

Name	Location	Relevant Hazards	Description/Details
Wellness Center	1 st Street/Old Town	Flooding	New Wellness Center currently under construction is built next to the Mojave River and within the flood plain. While the facility is being constructed to meet flood plain code requirements, the water table is very high, and the site is subject to flooding during severe rain events.
Booster Station	11734 Amethyst Road	Earthquake	New Water Booster Station built to current seismic standards is located within an area that has been known to have earthquakes.