


CITY OF LOS ANGELES
INTER-DEPARTMENTAL CORRESPONDENCE



Date: May 11, 2026

To: Honorable Members of the Public Safety Committee

From: Carol P. Parks, General Manager 
Emergency Management Department

Subject: **COUNCIL MOTION #23-0947 - RISK PRONE AREAS IN THE CITY OF LOS ANGELES**

EXECUTIVE SUMMARY

As per Council motion #23-0947 made by Councilmember Rodriguez, this report summarizes the work of the Emergency Management Department (EMD) regarding the areas within the City that are continuously at risk during adverse weather and natural events that impact life and property. The foundational document that provides the basis for this report is the [2024 Local Hazard Mitigation Plan \(LHMP\)](#), which was adopted by the Los Angeles City Council on August 30, 2024 and approved by the Federal Emergency Management Agency (FEMA) on September 24, 2024.

The LHMP addresses the Council motion's information request by identifying natural hazards, assessing their potential impact to the City, and determining mitigation strategies to reduce risk to life, property, and infrastructure. This report describes the LHMP's applicable policy requirements, planning methodology employed and an overview of the plan's key components including mitigation actions identified through the collective efforts of the LHMP Steering Committee. Select excerpts from the LHMP have been incorporated to demonstrate stakeholder and community input received in accordance with the public review process.

Hazard mitigation planning helps reduce the loss of life and property by minimizing the impact of disasters. It begins with state, tribal, and local governments identifying natural disaster risks and vulnerabilities that are common in their area. After identifying these risks, they develop long-term strategies for protecting people and property from similar events. Mitigation plans play a critical role in breaking the cycle of damage and reconstruction resulting from disasters. A City's LHMP is required to be regularly updated, reviewed by the California Office of Emergency Services (Cal OES), and the FEMA, and adopted by the jurisdiction every five years to be eligible for specific hazard mitigation funding. The City's LHMP will expire on September 24, 2029.

POLICY REQUIREMENTS

A suite of Federal and State legislation provides the framework for hazard mitigation requirements and funding eligibility. These include the Robert T. Stafford Act, National Flood Insurance Act of 1968, and National Dam Safety Program Act. For the City to be eligible to apply for specific types of mitigation funding, a Cal OES and FEMA-approved plan must be

adopted and maintained every 5 years. The tables below summarize hazard mitigation plan requirements for state, tribal, territorial, and local officials applying to FEMA for assistance, either directly or through a state as sub-applicants.

Enabling Legislation: Stafford Act

FEMA Assistance Program	Required for a State/Tribal Applicant?	Required for a Tribal/Local Sub-Applicant?
<u>Individual Assistance (IA)</u>	No	No
<u>Public Assistance (PA)</u> Categories A and B (e.g., debris removal, emergency protective measures)	No	No
<u>Public Assistance (PA)</u> Categories C through G (e.g., repairs to damaged infrastructure, publicly owned buildings)	Yes	No
<u>Fire Mitigation Assistance Grants (FMAG)</u>	Yes	No
<u>Hazard Mitigation Grant Program Post Fire</u>	Yes	Yes
<u>Hazard Mitigation Grant Program (HMGP) planning grant</u>	Yes+	No
<u>Hazard Mitigation Grant Program (HMGP) project grant</u>	Yes+	Yes++
<u>Building Resilient Infrastructure and Communities (BRIC) planning grant</u>	Yes*	No
<u>Building Resilient Infrastructure and Communities (BRIC) project grant</u>	Yes*	Yes**
<u>Safeguarding Tomorrow Revolving Loan Fund Program</u>	Yes	Yes

Enabling Legislation: National Flood Insurance Act

FEMA Assistance Program	Required for a State/Tribal Applicant?	Required for a Tribal/Local Sub-Applicant?
<u>Flood Mitigation Assistance</u>	Yes*	No

(FMA) planning grant		
Flood Mitigation Assistance (FMA) project grant	Yes*	Yes**

Enabling Legislation: Water Infrastructure Improvements for the Nation (WIIN) Act

FEMA Assistance Program	Required for a State/Tribal Applicant?	Required for a Tribal/Local Sub-Applicant?
<u>Rehabilitation of High Hazard Potential Dam (HHPD) Grant Program</u>	Yes#	Yes#

Notes

+ At the time of the Presidential major disaster declaration and at the time of obligation of HMGP grant funds.

++ At the time of obligation of HMGP grant funds for mitigation projects.

* By the application deadline and at the time of obligation of the BRIC or FMA award.

** By the application deadline and at the time of obligation of BRIC or FMA grant funds for mitigation projects.

Mitigation plans must include all dam risks in accordance with the requirements set forth in the Rehabilitation of High Hazard Potential Dams Grant Program Guidance. Dams owned by nonprofit organizations must be located in a jurisdiction with a FEMA-approved local or tribal mitigation plan that includes all dam risks in order to receive funds.

All of the grant programs listed above were available at the time the LHMP was approved. The Building Resilient Infrastructure and Communities (BRIC) grant was discontinued in 2025 and is currently under legal review.

LOCAL HAZARD MITIGATION PLAN METHODOLOGY

In the creation of the City of Los Angeles LHMP, EMD followed principles derived from [FEMA's Local Mitigation Planning Policy Guide](#), [Local Mitigation Planning Handbook](#), and [Comprehensive Preparedness Guide 101](#). As outlined in the Local Mitigation Planning Handbook, the critical tasks of creating a successful hazard mitigation plan are detailed below:

Task 1 - Determine the Planning Area, Processes, and Resources

The entirety of the incorporated boundaries of the City of Los Angeles were defined as the planning area. Building on the previous 2018 LHMP, this iteration includes an enhanced public outreach effort, incorporation of climate change effects for each natural hazard, improved data-driven risk assessments, updated goals and objectives, and newly identified mitigation strategies.

Task 2 - Build the Planning Team

A two-pronged approach was taken in building the planning team. A Core Planning Team (CPT), which consisted of EMD and the hired contractor, was formed to manage the day-to-day administration of the project. Additionally, a 44-member Steering Committee composed of multi-disciplinary City staff, residents, businesses, and nonprofits provided overall direction and subject matter expertise throughout all phases of plan development. A full list of the LHMP Steering Committee members can be found in Appendix A .

Task 3 - Create an Outreach Strategy

No plan is adequate without the necessary input from individuals who live, work, and recreate in the City of Los Angeles. To ensure proper public engagement, EMD implemented a robust targeted outreach approach, in English and Spanish, consisting of geographically and socially vulnerable communities. The outreach strategy resulted in over 5,400 individuals communicating their level of preparedness, risk priorities, and personal experience with past emergencies. Additionally, all steering committee meetings were open to the public during plan development and a 27-day public comment period was implemented once the Steering Committee approved an internal draft. The results of EMD's outreach and collaboration with stakeholders will inform future mitigation strategies.

Task 4 - Conduct a Risk Assessment

In order to accurately assess risk, first it was necessary to understand what types of hazards the City of Los Angeles is prone to. The Steering Committee began by reviewing the California State Hazard Mitigation Plan (HMP) and its associated hazards. Each hazard within the State HMP applicable to the City of Los Angeles was included. Additionally, an analysis of historical events and possible future events was conducted and those hazards were also included. See Appendix B for a list of all hazards identified in the 2024 LHMP.

Once the types of hazards were identified, an analysis of their associated risk was conducted using the best available data sources. Each Steering Committee member was tasked with providing the appropriate data source based on their discipline and subject matter expertise. For example, wildfire data was obtained from the Los Angeles Fire Department, and flood data was obtained from the Public Works Bureau of Engineering. When available, modeling software was utilized to determine the extent of potential losses and areas with the highest vulnerability within the City of Los Angeles. When no data was available, a qualitative analysis of the hazard was conducted. Each hazard profile consists of general background, past events, vulnerability and impacts, and potential effects of future conditions on hazard probability.

Task 5 - Review Community Capabilities

Following the identification of hazards and their risks, an assessment of current community capabilities was conducted. These include planning and regulatory capabilities, LHMP integration opportunities, administrative and technical capabilities, public outreach, fiscal capabilities, development and permitting capabilities, adaptive capacity, and participation in other programs such as the Community Rating System to lower National Flood Insurance Program premiums.

Task 6 - Develop a Mitigation Strategy

Catalogs of hazard mitigation strategies were developed that present a broad range of alternatives to be considered. One catalog was developed for each natural hazard evaluated in this plan. The catalogs present alternatives that are categorized in two ways:

1. Who has responsibility for implementation:
 - a. Individuals (personal scale)
 - b. Businesses (organizational scale)
 - c. Government (government scale)
2. What the alternative strategy accomplishes:
 - a. Reduce the probability of hazard events
 - b. Limit risk to new development and redevelopment
 - c. Reduce risk to existing structures
 - d. Increases response and preparedness capabilities specific to the hazard

The catalogs contain lists of natural hazard risk reduction considerations for the City of Los Angeles. These include practices that will mitigate current hazard risks or reduce new and intensified risks resulting from climate change. Hazard mitigation actions recommended in the LHMP were selected based on analysis of the best practices presented in these catalogs. The catalogs provide a baseline of alternative mitigation strategies supported by a planning process that is consistent with the established goals and objectives. Actionable items were selected from these catalogs based on the City's implementation capability. Identified best practices not included within the mitigation action plan were omitted for one or more of the following reasons:

- The mitigation action is not feasible
- The mitigation action is already being implemented
- The City does not currently have the capability to implement the mitigation action
- There is a more cost-effective alternative
- The mitigation action does not have public or political support

The Steering Committee reviewed catalogs of hazard mitigation alternatives and selected mitigation actions for inclusion within the Hazard Mitigation Action Plan. The risk assessment of identified hazards of concern and defined hazard mitigation goals and objectives determined mitigation action selection. Appendix C lists the recommended hazard mitigation actions that make up the mitigation action plan.

Task 7 - Keeping the Plan Current

Plan maintenance is the formal process for achieving the following:

- Ensuring that the Hazard Mitigation Plan remains an active and relevant document and that the City maintains its eligibility for applicable funding sources
- Monitoring and evaluating the plan annually and producing an updated plan every five years
- Integrating public participation throughout the plan maintenance and implementation process
- Incorporating the mitigation strategies outlined in this plan into existing planning mechanisms and programs, such as any relevant comprehensive land-use planning process, capital improvement planning process, and building code enforcement and implementation

A detailed Plan Maintenance Matrix has been included in the plan and can be found in Appendix D.

Task 8 - Review and Adopt the Plan

A hazard mitigation plan must document that it has been formally adopted by the governing body of the jurisdiction requesting federal approval of the plan (44 CFR Section 201.6(c)(5)). Disaster Mitigation Act (DMA) compliance and its benefits cannot be achieved until the plan is adopted. Following approval by Cal OES, the City of Los Angeles LHMP was forwarded to FEMA for review and approved on September 24, 2024. Upon receipt of FEMA approval, the plan was adopted by the Los Angeles City Council on August 30, 2024.

Task 9 - Create a Safe and Resilient Community

The effectiveness of the Hazard Mitigation Plan depends on its implementation and incorporation of its action items into existing local plans, policies and programs. Together, the action items in the plan provide a framework for activities the City of Los Angeles can implement over the next 5 years to provide a safer and more resilient community.

Attachments

- Appendix A - City of Los Angeles Steering Committee Members
- Appendix B - Hazards Evaluated in Local Hazard Mitigation Plan
- Appendix C - 2024 LHMP Mitigation Actions
- Appendix D - Maintenance Plan

CC: Monica Rodriguez, Councilwoman, Council District 7

Appendix A

Steering Committee Members			
Organization	Sector/ Community Lifeline	Member	Alternate
American Red Cross	Health and Medical, Health and Social Services	Francisca Herrera, Disaster Cycle Services	None
Caltech	Academia	Dr. Monica Kohler, Research Professor of Mechanical and Civil Engineering	None
City of Los Angeles Community for Investment in Families	Health and Social Services, Social Vulnerability	Ruth Rodrigues, Senior Management Analyst	None
City of Los Angeles Department of Building and Safety	Safety and Security	Lisa Yancey, Chief Inspector	None
City of Los Angeles Department of Disability	Health and Social Services, Social Vulnerability	Deisy Gonzalez, Emergency Management Coordinator	None
City of Los Angeles Department of General Services	Safety and Security	Howard Bein, Emergency Planning Unit	None
City of Los Angeles Department of Neighborhood Empowerment	Health and Social Services, Social Vulnerability	John Darnell, Neighborhood Empowerment Advocate	None
City of Los Angeles Department of Public Works	Transportation	Adam Shephard, Emergency Management Coordinator Samson Wong, Civil Engineer Associate Raul Virgen, GIS Chief	Robert Kadomatsu, Chief Management Analysis
City of Los Angeles Department of Recreation and Parks	Natural and Cultural Resources	Adriana Smith, Emergency Management Coordinator Monica Gonzalez, Emergency Management Coordinator	None
City of Los Angeles Department of Transportation	Transportation	Paul Weinberg, Emergency Management Coordinator	Vilma Boada-Tellez, Emergency Management Coordinator

City of Los Angeles Department of Water and Power	Water Systems	Patrick Munongo, Emergency Management Coordinator Alejandro Becerra, Civil Engineering Associate Cliff Plumb, Engineering Geologist	None
City of Los Angeles Emergency Management Department	Emergency Management	Omari Battles, DAFN Principal Project Coordinator Jon Brown, Division Chief of Planning and Resilience Jillian De Vela, Emergency Management Coordinator Joseph Riser, Public Information Officer	None
City of Los Angeles Fire Department	Safety and Security	Rico Gross, Captain	None
City of Los Angeles Housing Department	Housing	EJ Martinez, Emergency Management Coordinator	None
City of Los Angeles Information Technology Agency	Communications	Thanh Su, Management Analyst	None
City of Los Angeles Mayor's Office	Safety and Security	Jacquelyn Sandoval, Mayoral Aide	None
Los Angeles City Planning Department	Safety and Security	Gabriela Juárez, City Planner	Marie Cobian, Senior City Planner Conni Pallini-Tipton, Senior Planner
City of Los Angeles Police Department	Safety and Security	Hayley Smith, Lieutenant	Michael Boyle, Sergeant Richard Rogers, Officer
City of Los Angeles Sanitation & Environment	Water systems	Jennifer Kong, Grants Program Manager	Thien Phan, Environmental Engineering Associate
City of Los Angeles World Airports	Transportation	Justin Pierce, Director of Emergency Management Division Zina Cheng, Grants & PFC Manager	None
Climate Emergency Mobilization Office	Safety and Security, Climate Change	Marta Segura, Climate Emergency Mobilization Office, Chief Heat Officer	None
Community Emergency Response Team	Safety and Security	Chin Thammasaengri, CERT South Bureau & LAFD Dispatch	None
Emergency Network in Los Angeles	Safety and Security	Rene Martin, Interim Program Director Kayla Kelly-Slatten, Program Director	Michael Flood

Los Angeles Area Chamber of Commerce	Safety and Security	Andrea Nunn, Senior VP, Entrepreneurship & Innovation	Peter Foo, VP of Entrepreneurship & Workforce Development
Los Angeles County Office of Emergency Management	Emergency Management	Sinan Khan, Associate Director	None
Los Angeles Unified School District	Safety and Security	Jill Barnes, Administrator of Emergency Management	None
National Weather Service	Communications	Eric Boldt, Warning Coordination Meteorologist John Dumas, Science and Operations Officer	None
Neighborhood Council Emergency Preparedness Alliance^a	Health and Social Services	Commissioner Leonard Shaffer, Commissioner	None
Office of the City Administrative Officer	Safety and Security	Mary Reuschel, Senior Administrative Analyst	None
Harbor Department/Port of Los Angeles	Transportation	Lynette Ursery, Emergency Management Coordinator Jennifer Maradiaga-Contreras, Emergency Management Coordinator	None
The Nature Conservancy	Natural and Cultural Resources	Kelsey Jessup, Urban Conservation Program Manager	Alysa Mann, Climate Resilience Project Director Deborah Glaser, Climate Resilient Communities Project Director
University of California, Los Angeles	Academia	Dr. Travis Longcore ^b , Adjunct Professor	Sahar Derakhshan ^b , Postdoctoral Research Fellow
University of Southern California Sea Grant Program	Academia	Karina Alvarez, Science, Research, and Policy Specialist	None
U.S. Army Corps of Engineers	Safety and Security	Major Kevin Stucker, Operations Officer	None

Appendix B

HAZARDS ADDRESSED IN THE PLAN

To identify significant hazards that could affect the Los Angeles planning area, the updated hazard mitigation plan reviews state and local hazard planning documents as well as information on the frequency of, magnitude of, and costs associated with hazards that have struck the planning area or could do so. Anecdotal information regarding hazards and the perceived vulnerability of the planning area's assets to them was also used. Based on the review, the updated plan addresses the following hazards (presented in alphabetical order; the order of listing does not indicate the hazards' relative severity):

- Civil disorder
- Cyber threats
- Dam failure
- Drought
- Earthquake
- Extreme cold or freeze
- Extreme heat
- Flood
- Geomagnetic storm (space weather)
- Hazardous material release
- High winds
- Landslide and other mass movements
- Oil spills
- Public health hazards
- Radiological accidents
- Sea-level rise, coastal flood and erosion
- Smoke and air pollution
- Terrorism
- Tsunami and seiche
- Wildfire
- Transportation accidents
- Urban structure fire

Appendix C

33.2.1 Actions Carried Over from 2018 HMP

Table 33-1 lists the mitigation actions from the 2018 HMP that have been carried over for inclusion in the 2024 plan update action plan.

Table 33-1. Action Items Carried Over From 2018 HMP				
Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
Los Angeles Department of Water and Power (LADWP)				
DWP-2018-01 — Generation Backup Program.				
New & existing	1, 8	1, 5	DPW Operations Fund, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Some socially vulnerable populations experience homelessness and are reliant on public facilities to provide water and power on a regular basis. Backup generators for water and power facilities allow these public facilities to continue supplying power and water to those individuals.			
DWP-2018-02 — Integrate Customer Connect with existing centers.				
Existing	1, 5, 8	1, 2	General Fund	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	A new alternate EOC facility will provide for Continuity of Operations should the primary EOC be unavailable. The alternate EOC will assist in the protection of life and property throughout the City by providing a location to assess, order, and deploy resources to maintain control of an emergency. Continuity of emergency operations would enable facilitation of assistance to City residents especially those with access and function needs and those socially vulnerable communities.			
DWP-2018-03 — Security Lighting Upgrade Program.				
Existing	2, 8	1	Staff Time, General Fund	Short-Term
<u>Hazards Mitigated:</u>	Earthquake; Flood; High Wind; Landslide; Tsunami; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Socially vulnerable populations are often the most at-risk from hazards due to pre-existing conditions and socioeconomic status. This action will educate and inform all populations, including the socially vulnerable, on the hazards which may occur in the City and how to mitigate the risk associated with those hazards.			
DWP-2018-04 —Install perimeter security walls at RS-C, RS-G, RS-F, and River SS. All four stations have a long history of break-ins, vandalism, and theft. They could be targets for terrorism as well. RS-F and RS-G are medium low level CIP identified stations. Walls have been effective deterrents in other LADWP stations.				
Existing	2, 8	1	Staff Time, General Fund	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.			

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
DWP-2018-06 — Identify new needs and enhance existing facilities through the LADWP Pump Station Refurbishment Program.				
New & existing	1, 2, 8, 9	1, 3	DPW Operations Fund, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Protection and upgrades of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.			
DWP-2018-07 — Identify new needs and enhance existing facilities through the Regulator Stations Program.				
New & existing	1, 2, 8, 9	1, 3	DPW Operations Fund, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Protection and upgrades of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.			
DWP-2018-08 — Identify new and enhance existing trunk lines and major system connections through the Trunk Lines and Major System Connections Program.				
New & existing	1, 2, 8, 9	1, 3	DPW Operations Fund, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	The section overview portion of the Emergency Plan covers a discussion of a variety of topics, including population distribution and locations, including any concentrated populations of individuals with disabilities, others with access and functional needs, or individuals with limited English proficiency.			
DWP-2018-09 — Identify HMA eligible projects in the Infrastructure Reservoir Improvements Program (tanks only).				
New & existing	1, 2, 8, 9	1, 3	DPW Operations Fund, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Many HMA grant projects include supporting and assisting socially vulnerable populations.			
DWP-2018-10 — Griffith Park Improvements Project.				
New	2, 4, 8, 9	1, 5	DPW Operations Fund, HMA	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Many FEMA grant opportunities require showing how or if a project will benefit socially vulnerable populations. This action will guide City departments, office, and divisions how to write successful mitigation grant applications.			

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
DWP-2018-12— Water Quality Additions and Betterments.				
Existing	2, 9	1, 4	Staff Time, General Fund	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Socially vulnerable populations are dependent on public water sources that are easily accessible to them. By bettering the water quality, people experiencing homelessness can access clean, drinkable water.			
DWP-2018-13— Infrastructure Reservoir Improvements Program (dams only).				
Existing	1, 2, 6, 9	1, 3, 4, 5	Staff Time, General Fund, BRIC	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure			
<u>Socially Vulnerable Population Impacts:</u>	Some socially vulnerable populations may be located in a dam inundation area and are at a greater risk from dam failure. Infrastructure improvements to these dams will further protect the infrastructure integrity of the dam, which will further protect socially vulnerable populations that are located in a dam inundation area.			
DWP-2018-14— Water Quality Improvement Project Reservoir Improvement Program.				
Existing	1, 2, 6, 8	1, 3, 4	Staff Time, General Fund, BRIC	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure			
<u>Socially Vulnerable Population Impacts:</u>	Socially vulnerable populations are dependent on public water sources that are easily accessible to them. By bettering the water quality, people experiencing homelessness can access clean, drinkable water.			
DWP-2018-15— Seismic Strengthen of DS Yard walls.				
Existing	1, 2, 9	1, 3, 4	Staff Time, General Fund, BRIC	Long-Term
<u>Hazards Mitigated:</u>	Earthquake			
<u>Socially Vulnerable Population Impacts:</u>	Many FEMA grant opportunities require showing how or if a project will benefit socially vulnerable populations. This action will guide City departments, office, and divisions how to write successful mitigation grant applications.			
DWP-2018-16— S. Haiwee Reservoir Spillway Channel Modifications. Harden Spillway channel upstream and downstream to prevent Erosion and Scour. Needed to protect new LADWP-owned Facilities downstream of S. Haiwee Dam.				
Existing	1, 2, 6, 8	1, 3, 4, 5	DPW Operations Fund, BRIC	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Flood; High Wind;			
<u>Socially Vulnerable Population Impacts:</u>	Some socially vulnerable populations may be located in a dam inundation area and are at a greater risk from dam failure. Infrastructure improvements to these dams will further protect the infrastructure integrity of the dam, which will further protect socially vulnerable populations that are located in a dam inundation area.			

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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DWP-2018-17— Tinemaha Reservoir Spillway Channel Improvement Project. Earthen Spillway channel requires a hardened invert and approach apron to prevent excessive Erosion and Scour. Higher Side Berms and Hardened Arizona crossings are needed to protect the channel from breaching its banks and preventing back flows towards the toe of the Dam. Increased spillway channel capacity back to the Owens River will reduce the risks of flooding State Highway 395 and reduce the risk of Dam failure.

Existing	1, 6, 8, 9	1, 3, 4, 5	DPW Operations Fund	Short-Term
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Hazards Mitigated: Dam Failure; Flood

Socially Vulnerable Population Impacts: Some socially vulnerable populations may be located in a dam inundation area and are at a greater risk from dam failure. Infrastructure improvements to these dams will further protect the infrastructure integrity of the dam, which will further protect socially vulnerable populations that are located in a dam inundation area.

DWP-2018-18— Four Culverts Replacement Project – Bishop Flood Bypass Channel. This facility was severely damaged during High flow events in Run-off Season 2017. The entire system of four CMP culverts and Regulatory slide gates, retaining walls and wing walls require 100 % rebuild. This release facility protects the City of Bishop, CA from flood damage by rerouting flood waters to a Flood Control Channel designed by the Army Corps of Engineers.

Existing	1, 2, 3, 8, 9	1, 3, 4	DPW Operations Fund, BRIC	Short-Term
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Hazards Mitigated: Flood

Socially Vulnerable Population Impacts: Socially vulnerable populations are impacted by flooding due to aging infrastructure. New Culverts reduce flooding and reduce problems that socially vulnerable populations may have relating to flooding.

DWP-2018-19— Self-Propelled Suction Dredge for Sediment Removal along the LAA. A self-propelled suction dredge is required for sand trap cleaning, sediment removal operations in our aqueduct, and channel maintenance for flows through our reservoirs from inlet to outlet structures. The last suction Dredge was decommissioned in the late 1980's and needs to be replaced. New uses are channel maintenance for major Environmental Mitigation Projects like the 62-mile long Lower Owens River Project.

Existing	1, 8, 9	1, 3, 4	DPW Operations Fund	Short-Term
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Hazards Mitigated: Flood

Socially Vulnerable Population Impacts: Many FEMA grant opportunities require showing how or if a project will benefit socially vulnerable populations. This action will guide City departments, office, and divisions how to write successful mitigation grant applications.

Los Angeles Emergency Management Department (EMD)

EMD-2018-01— Coordinate the implementation and maintenance of the 2024 City of Los Angeles Hazard Mitigation Plan.

New & existing	2, 5, 6, 7	1, 2, 5	Staff Time, General Fund, HMA	Short-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: FEMA's new requirements of explicitly addressing socially vulnerable populations means the implementation of this plan will directly benefit socially vulnerable populations, especially in relation to action implementation.

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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Los Angeles Housing Department (LAHD, formerly HCID)

LAHD-2018-01—Pre-Disaster Housing Recovery Strategy for the City. This plan will provide the framework and strategy for how the City will: 1) manage the transition from mass care and shelter response to housing-related recovery in future disasters; 2) collect and analyze data and information related to the disaster; and 3) design effective housing recovery programs that may be implemented to maximize and leverage available recovery resources and funding to rehouse displaced residents and reconstruct damaged housing of all types.

New & existing	1, 12	1, 2, 4	City Staff time, FEMA Planning Grant, CDBG-DR	Short-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: A plan for housing recovery could include communities and groups that are marginalized or socially vulnerable and ways to assist them.

LAHD-2018-02—Seismic Retrofit Program. This program seeks to complete mandatory seismic retrofitting of residential properties with identified soft-story hazards, as required by City Ordinance 184081 enacted in February 2016. In addition, other residential seismic retrofit needs in the City will be researched (e.g. non-ductile concrete buildings).

Existing	1, 6, 12	1, 4, 5	Apartment owner funds; Cost recovery from tenants (i.e., rent increases and/or surcharges); City Staff time, HMA	Short-Term
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Hazards Mitigated: Earthquake

Socially Vulnerable Population Impacts: Facilities that accommodate or host socially vulnerable communities could be included in the seismic retrofitting program.

Los Angeles Police Department (LAPD)

LAPD-2018-01— Regional Explosive Device Detection, Imaging and Mitigation Maintenance Project.

New & existing	1, 8	1, 4	Staff Time, General Fund, Urban Areas Security Initiative (UASI), State Homeland Security Grant Program (SHSGP)	Short-Term
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Hazards Mitigated: Radiological Incidents; Terrorism; Hazardous Materials Release

Socially Vulnerable Population Impacts: Socially vulnerable populations such as those suffering from homelessness may face additional risk from explosive devices as they may rely on public facilities for hygiene and sheltering needs.

LAPD-2018-02— Bomb Squad Robot Upgrade Project.

Existing	2, 8	1	Staff Time, General Fund, SHSGP	Long-Term
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Hazards Mitigated: Radiological Incidents; Terrorism; Hazardous Materials Release

Socially Vulnerable Population Impacts: Socially vulnerable populations can be more at risk from bomb threats and hazardous materials releases due to those that suffer from homelessness being more dependent on relocating to public facilities where most people have access to.

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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City Planning

CP-2018-01— Create a City of Los Angeles Climate Vulnerability Assessment that builds on the work of the HMP and the LA County Climate Vulnerability Assessment by offering additional guidance on how best to plan for the intersection of physical and social vulnerability to ensure that climate equity is central in all future climate planning efforts.

New & existing	2, 3, 5, 6, 8, 9, 10	1, 3, 4, 5	Staff Time, FEMA Planning Grant, CDBG, EPA	Short-Term
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Hazards Mitigated: Extreme Heat; Extreme Cold; Flood; High Wind; Sea-Level Rise; Wildfire

Socially Vulnerable Population Impacts: This action addresses the socially vulnerable population and offers additional guidance and help on how to ensure climate equity.

Los Angeles Fire Department (LAFD)

LAFD-2018-03— Update/maintain Wild Land Operational Plan with best available data and science on wildfire risk and severity within the operational area.

New & existing	1, 2, 8	1, 4, 5	LAFD Operations Funds, HMA	Short-Term
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Hazards Mitigated: Wildfire

Socially Vulnerable Population Impacts: Socially vulnerable populations may be unaware of prominent wildfire areas. By updating and making this plan accessible to all socially vulnerable populations, the risk to socially vulnerable populations is lowered.

LAFD-2018-04— Security/Safety action for memorial training center at 1700 stadium way. The current project is re securing the property by installing iron security fencing around the property.

Existing	1, 12	1	LAFD Operations Funds	Short-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: Nature-based solutions offer significant benefits which may impact socially vulnerable populations, including economic growth, green jobs, increased property values, and improvements to public health, including better disease outcomes and reduced injuries and loss of life.

Los Angeles World Airport (LAWA)

LAWA-2018-01— Improved LAX Airport Passenger Access and Airfield Modifications to Improve Safety and Efficiency (Airfield Expansions).

New & existing	1, 7, 8	1, 4	Staff Time, General Fund, HMA	Short-Term
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Hazards Mitigated: Earthquake

Socially Vulnerable Population Impacts: Some socially vulnerable populations may not speak English and may have difficulty hearing/seeing. By improving safety and efficiency, LAWA will have to ensure that modifications are made to serve these populations.

LAWA-2018-02— Assess and install crash cushion on critical power line poles on Pershing Drive and other key locations throughout the perimeter of LAX.

New & existing	1, 7, 8	1, 4	Staff Time, HMA	Short-Term
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Hazards Mitigated: Transportation Accident, Geomagnetic Storm, Public Health

Socially Vulnerable Population Impacts: Nature-based solutions offer significant benefits which may impact socially vulnerable populations, including economic growth, green jobs, increased property values, and improvements to public health, including better disease outcomes and reduced injuries and loss of life.

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LAWA-2018-03 — Purchase two X-Ray Vans or robots which can detect solid and liquid explosives in checked baggage.				
New & existing	1, 7, 8	1, 4	Staff Time, FEMA Planning Grant, CDBG, UASI, SHSGP	Long-Term
Hazards Mitigated: Terrorism				
<u>Socially Vulnerable Population Impacts:</u> Some socially vulnerable populations may not speak English and may have difficulty hearing/seeing sirens and warnings related to explosives. By purchasing the robots, more explosives will be identified prior to entering the airport which reduces the threat.				
LAWA-2018-04 — Install Earthquake Early Warning technology into all terminals to connect to the airports' existing 3,700 InformaCast endpoints (Cisco phones, speakers, desktops and digital signage) over PA/audio and visual alerting interfaces. An audible alert will be played to warn occupants in the event of anticipated shaking equal to or greater than a 5 Modified Mercalli Intensity (MMI) value.				
New & existing	1, 7, 8	1	Staff Time, HMA, FAA, DOT	Long-Term
Hazards Mitigated: Earthquake				
<u>Socially Vulnerable Population Impacts:</u> Some socially vulnerable populations may not speak English as a primary language and may have difficulty hearing/seeing warnings related to earthquakes. LAWA will ensure physical and verbal alerts are both made in different languages to warn these individuals.				

33.2.2 New Actions for 2024

City department representatives selected and created actions to be included in this hazard mitigation action plan. A memo from the HMP Steering Committee to department representatives provided resources for identifying new mitigation actions, and Tetra Tech and EMD hosted two workshops on how use those resources to develop mitigation actions, including nature-based solutions. The selection of actions was based on the risk assessment of identified hazards of concern and the updated hazard mitigation goals and objectives. Table 33-2 lists the new hazard mitigation actions included in the action plan.

Table 33-2. New Actions Identified for This HMP Update

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
Citywide Mitigation Actions				
CLA-01 —Designate, develop, and equip a new central Incident Command Center(s).				
New & existing	1, 8, 9, 10	1, 5	General Fund, EMPG	Long-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> A new central Incident Command Center(s) will assist in the protection of life and property throughout the City by providing a location to assess, order, and deploy resources to maintain control of an emergency.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
CLA-02 —Identify and obtain a new EOC alternate facility that will allow EMD to secure the location or open the location anytime.				
New & Existing	1, 8, 9	1, 5	General Fund, EMPG	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	A new alternate EOC facility will provide for Continuity of Operations should the primary EOC be unavailable. The alternate EOC will assist in the protection of life and property throughout the City by providing a location to assess, order, and deploy resources to maintain control of an emergency.			
CLA-03 —Implement education and outreach awareness programs utilizing media, social media, flyers, etc. to educate community members of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages.				
New & existing	10	1, 2, 4	General Fund, HMA, EMPG	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Socially vulnerable populations are often the most at-risk from hazards due to pre-existing conditions and socioeconomic status. This action will educate and inform all populations, including the socially vulnerable, on the hazards which may occur in the City and how to mitigate the risk associated with those hazards.			
CLA-04 —Identify citywide critical facilities that need to be re-wired and retrofitted to meet the new standard for upgrading the HVAC system, installation /upgrading back-up power, and earthquake early warning systems.				
New & existing	2, 6, 8	1, 4	General Fund, BRIC, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.			
CLA-05 —Install or upgrade back-up power to City-owned facilities such as three-way switch and solar power.				
Existing	1, 4, 8, 9	1, 4	General Fund, BRIC, HMA	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.			

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
CLA-06 —Install earthquake early warning systems to city owned critical facilities.				
New & existing	1, 8, 9	1, 4, 5	General Fund, BRIC, HMA	Long-Term
<u>Hazards Mitigated:</u> Earthquake				
<u>Socially Vulnerable Population Impacts:</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
CLA-07 —Annually update the Department Emergency Plan and Continuity of Operations Plan.				
New & existing	5, 6, 8, 10	1, 2, 3, 4, 5	General Fund, EMPG	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> The section overview portion of the Emergency Plan covers a discussion of a variety of topics, including population distribution and locations, including any concentrated populations of individuals with disabilities, others with access and functional needs, or individuals with limited English proficiency.				
CLA-08 — Identify and implement nature-based hazard mitigation practices, including but not limited to increasing landscape permeability and urban tree reforestation, replacing existing vegetation with drought-tolerant vegetation, and clearing invasive plants that use more water than native species				
New & existing	1, 2, 4	3, 4, 5	General Fund, BRIC	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; Tsunami and Seiche; Wildfire; Public Health				
<u>Socially Vulnerable Population Impacts:</u> Nature-based solutions offer significant benefits which may impact socially vulnerable populations, including economic growth, green jobs, increased property values, and improvements to public health, including better disease outcomes and reduced injuries and loss of life.				
CLA-09 —Develop citywide guidance on mitigation grant applications.				
New & existing	2, 5, 6, 9	3, 4, 5	General Fund, BRIC, HMGP	Short-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> Many FEMA grant opportunities require showing how or if a project will benefit socially vulnerable populations. This action will guide City departments, office, and divisions how to write successful mitigation grant applications.				
Department of Recreation and Parks (RAP)				
RAP-01 — Identify and implement appropriate erosion control measures for the City's parks to mitigate potential flash floods and landslides during heavy rainfall or storms.				
New & existing	1, 2, 3	1, 4, 5	General Fund, BRIC	Long-Term
<u>Hazards Mitigated:</u> Flood, Landslide;				
<u>Socially Vulnerable Population Impacts:</u> This action will assist socially vulnerable populations whose properties are impacted by flooding from the park. Furthermore, this action will assist in keeping roadways clear of flood waters for the populations which may need to attend medical appointments or require medical attention from first responders.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
RAP-02 —Identify and implement measures to fortify critical park infrastructure, addressing failing infrastructure within and surrounding the park. Failing infrastructure includes roadways and retaining walls to access park amenities.				
Existing	1, 2	1, 4, 5	General Fund, BRIC	Long-Term
Hazards Mitigated: Landslide, Earthquake				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by flooding near the park. Furthermore, this action will assist in keeping roadways clear of flood waters for the populations which may need to attend medical appointments or require medical attention from first responders.				
Population Impacts:				

RAP-03 —Increase tree trimming and maintenance for over 16,000 acres of parkland is critical in preventive maintenance and clean-up of fallen trees after a high wind or storm event.				
New & existing	1, 2, 4, 5	1, 4, 5	General Fund	Short-Term
Hazards Mitigated: Flood; High Wind				
Socially Vulnerable Some socially vulnerable population rely on power utilities for everyday care. If power outages are caused by a lack of tree maintenance, lives could potentially be at risk.				
Population Impacts:				

Department of Public Works Bureau of Engineering (BOE)

BOE-01 —Construction of a steel and concrete bulkhead and new pavement (495 N. Quail Dr., 9192 W. Crescent Dr., 711 N. Enchanted Way, 22430 Domingo Rd. [Sueno Rd.], 8529 to 8569 W. Nash Dr., 805 Mount Washington Dr., 7200 W. Sunnydip Trail, Vista Del Mar).				
New	1, 2, 9	1, 5	General Fund, Special Gas Tax, SB1 Road & Maintenance Rehabilitation Fund, BRIC	Short-Term
Hazards Mitigated: Flood				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by flooding near the identified roadways. Furthermore, this action will assist in keeping roadways clear of flood waters for the populations which may need to attend medical appointments or require medical attention from first responders.				
Population Impacts:				

BOE-02 —Extend an existing sidehill bridge and construct a bulkhead and new pavement to address the loss of lateral support of roadways.				
New & existing	1, 2, 9	1, 5	General Fund, Special Gas Tax, SB1 Road & Maintenance Rehabilitation Fund, BRIC	Short-Term
Hazards Mitigated: Earthquake; Flood; Landslide				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by flooding near the bridge. Furthermore, construction of a bulkhead will result in a lowered likelihood of to property and decreased loss of life will occur in hazard prone areas, leading to reduced recovery costs and flood insurance claims. This action will also assist in keeping roadways clear of flood waters for the populations which may need to attend medical appointments or require medical attention from first responders.				
Population Impacts:				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
BOE-03 —Construct bridges to span locations susceptible to the landslide hazard.				
New	1, 2, 9	1, 5	General Fund, Special Gas Tax, SB1 Road & Maintenance Rehabilitation Fund, BRIC	Short-Term
Hazards Mitigated: Landslide				
Socially Vulnerable Population Impacts: This action ensures transportation routes remain open and accessible for daily and medical use and evacuation needs. This action will assure there is a point of access for first responders into communities that may have faced damage from a hazard event on either side of the bridge.				
BOE-04 —Construct new and/or retrofit existing stormwater facilities identified in the DPW CIP to manage stormwater from severe storm and flood events.				
New & existing	1, 2, 9	1, 5	DPW Operation funds, FEMA Hazard Mitigation Assistance programs	Long-Term
Hazards Mitigated: Flood				
Socially Vulnerable Population Impacts:				
BOE-05 —Identify and prioritize flood control projects for the City's Capital Improvement Program, such as bank stabilization and restoration, dune restoration, wetland restorations, floodplain and steam channel restorations, and shoreline restoration				
New & existing	1, 2, 3, 5, 9	1, 4, 5	DPW Operation funds, FEMA Hazard Mitigation Assistance programs	Long-Term
Hazards Mitigated: Flood; High Wind; Tsunami and Seiche; Sea-Level Rise, Coastal Erosion				
Socially Vulnerable Population Impacts: Vulnerable populations surrounding the location of the identified and prioritized flood control projects will benefit from this action, as it will reduce the flood risk surrounding the community				
BOE-06 — Provide flood zone information to all residents. Provide notifications when flood insurance is required. Provide notifications when FEMA-designated flood zone changes are made.				
Existing	2, 3, 5, 6, 7, 8	1, 2, 4	General Funds	Short-Term
Hazards Mitigated: Flood; Tsunami; Sea-Level Rise				
Socially Vulnerable Population Impacts: This action will educate residents on the flood hazard, its risks to properties, and how to be notified if or when flood zone changes are made by FEMA; furthermore, this action will educate property owners on the necessity of flood insurance.				
BOE-07 —Upon request, participate in flood organizations such as the CA Floodplain Management Association, the Association of State Floodplain Managers, and National Association of Stormwater and Floodplain Managers.				
Existing	1, 2, 3, 5, 6, 7, 9	1, 3	General Funds	Short-Term
Hazards Mitigated: Flood; Tsunami; Sea-Level Rise				
Socially Vulnerable Population Impacts: Officials that are up to date on flood risk are more likely to encourage development outside areas of high flood risk, which is where socially vulnerable populations have historically resided. Safer dwellings may be developed in a less vulnerable location.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
BOE-08 —Continue to support a Certified Floodplain Manager initiative within DPW by providing funds for personnel to study and take the test to become Certified Floodplain Managers.				
Existing	1, 2, 3, 6, 7, 9	1, 3	General Funds	Short-Term
<u>Hazards Mitigated:</u> Flood; Tsunami; Sea-Level Rise				
<u>Socially Vulnerable</u> Officials that are up to date on flood risk are more likely to encourage development outside areas of high flood risk, which is where socially vulnerable populations have historically resided. Safer dwellings may be developed in a less vulnerable location. <u>Population Impacts:</u>				
BOE-09 —Conduct National Flood Insurance Program Seminar for the City staff with a role in floodplain management for the City.				
New & existing	1, 2, 3, 6, 7, 9, 12	1, 2, 3	General Funds	Short-Term
<u>Hazards Mitigated:</u> Flood				
<u>Socially Vulnerable</u> Officials that are up to date on flood risk are more likely to encourage development outside areas of high flood risk, which is where socially vulnerable populations have historically resided. Safer dwellings may be developed in a less vulnerable location. <u>Population Impacts:</u>				
BOE-10 — Maintain geographic information system mapping and modeling capability to support the stormwater facilities condition assessment program.				
New & existing	1, 2, 3, 6, 7	1, 3, 5	DPW Operation funds, FEMA Hazard Mitigation Assistance programs	Short-Term
<u>Hazards Mitigated:</u> Flood				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas. <u>Population Impacts:</u>				
BOE-11 —Create an online system to record and track flood complaints. This online system could be a collected list, a submission form for the public to submit locations which flood, a GIS application which would have users drop a pin to identify a flooding location, or a combination of all the above.				
New & existing	2, 7	1, 2, 5	General Funds	Short-Term
<u>Hazards Mitigated:</u> Flood				
<u>Socially Vulnerable</u> This action will allow populations which may be otherwise unable to attend in-person meetings or visit offices an opportunity to submit a complaint regarding repetitively flooded areas. <u>Population Impacts:</u>				
BOE-12 —Identify new stormwater projects through the DPW CIP.				
New	1, 2, 3, 7, 9	1, 3, 4, 5	DPW Operation funds, FEMA Hazard Mitigation Assistance programs	Long-Term
<u>Hazards Mitigated:</u> Flood				
<u>Socially Vulnerable</u> Vulnerable populations surrounding the location of the identified projects will benefit from this action, as it will reduce the flood risk surrounding the community <u>Population Impacts:</u>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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BOE-13—Coordinate the implementation and maintenance of the 2020 City of Los Angeles Floodplain Management Plan (FMP) with the implementation of this hazard mitigation plan. The 2020 City of Los Angeles FMP and all its actions and recommendation are considered to be fully integrated with this local hazard mitigation plan by reference.

New & existing	2, 3, 5, 6, 7	1, 2, 3, 5	DPW Operation funds, FEMA Hazard Mitigation Assistance programs	Short-Term
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Hazards Mitigated: Flood; Tsunami; Sea-Level Rise

Socially Vulnerable Integrating local plans can assist in ensuring projects which would benefit socially vulnerable populations become identified and pursued. Plan implementation and maintenance allows for new vulnerabilities to be adopted into the plan(s).

Population Impacts:

BOE-14—Continue to maintain good standing and compliance under the National Flood Insurance (NFIP). This will be accomplished through the floodplain management programs that will, at a minimum, meet the requirements of the NFIP: Enforce the flood damage prevention ordinance, Participate in floodplain identification and mapping updates, Provide public assistance/information on floodplain requirements and impacts.

Existing	1, 2, 3, 5, 6, 7, 11	1, 3	DPW operation funds, Department of Building and Safety operation funds	Short-Term
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Hazards Mitigated: Flood; Tsunami; Sea-Level Rise

Socially Vulnerable Officials that are up to date on flood risk are more likely to encourage development outside areas of high flood risk, which is where socially vulnerable populations have historically resided. Safer dwellings may be developed in a less vulnerable location.

Population Impacts:

Department of Public Works Los Angeles Sanitation and Environment (LASAN)

LASAN-01—Install infrastructure along Lankershim Blvd to improve stormwater management, infiltration, and community enhancement.

New & existing	1, 2, 9	1, 4, 5	Safe Clean Water Regional Project, general fund, BRIC	Short-Term
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Hazards Mitigated: Flood

Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.

Population Impacts:

LASAN-02—Install infrastructure along Oro Vista Avenue to improve stormwater management, infiltration, and community enhancements.

New & existing	1, 2, 9	1, 4, 5	Safe Clean Water Regional Project, general fund, BRIC	Short-Term
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Hazards Mitigated: Flood

Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.

Population Impacts:

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LASAN-03 —Install curbs and gutters to handle stormwater runoff collected from properties adjacent to the street.				
New & existing	1, 2, 9	1, 4, 5	Assessment District or Special funding source, BRIC	Long-Term
Hazards Mitigated: Flood				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by				
Population Impacts: flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-04 —Develop a feasibility study (concept report) to develop a scope of work to address flooding and install stormwater BMP for infiltration and greening along the corridor.				
Existing	1, 2, 3, 6, 9	1, 3, 5	Safe Clean Water Regional Project, SB 1 funding, general fund, BRIC	Long-Term
Hazards Mitigated: Flood				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by				
Population Impacts: flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-05 —Install reinforced concrete pipe (main line) along Dickens St and connect to the existing Los Angeles City Storm Drain (per plan D-5293).				
New & existing	1, 2, 9	1, 4, 5	SB 1 funding, general fund, BRIC	Short-Term
Hazards Mitigated: Flood				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by				
Population Impacts: flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-06 —Replace inadequate drains and culverts throughout the City to reduce the impacts of flood on pedestrian traffic, vehicular traffic, and to protect residences during the rainy season.				
New & existing	1, 2, 9	1, 4, 5	SB 1, Stormwater Pollution Abatement Fund, BRIC	Long-Term
Hazards Mitigated: Flood				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by				
Population Impacts: flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-07 —Construct a storm drain (Orion Avenue between Nordhoff Street and Roscoe Boulevard, Rayen Street between Orion Avenue and Langdon Avenue, Langdon Ave from Rayen Street to Nordhoff Street) to connect existing storm drains and eliminate flooding of Langdon elementary school.				
New	1, 2, 9	1, 4, 5	SB 1, Stormwater Pollution Abatement Fund, BRIC	Long-Term
Hazards Mitigated: Flood				
Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by				
Population Impacts: flooding along flood prone roads, ensure roadways are clear for emergency response and daily use, and keep the Langdon elementary school from flooding impacts.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LASAN-08 —Construct a storm drain in Tyler Street, connecting to Los Angeles County Project 9208 in Herrick Avenue, extending NE to Glenoaks Boulevard, NW to Cobalt Street, NE to Fellows Avenue, and NW to Roxford Street				
New	1, 2, 9	1, 4, 5	SB 1, Stormwater Pollution Abatement Fund, BRIC	Long-Term
Hazards Mitigated: Flood				
<u>Socially Vulnerable</u> This action will assist socially vulnerable populations whose properties are impacted by				
<u>Population Impacts:</u> flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-09 —Construct a storm drain in Branford Street between Laurel Canyon Boulevard and Arleta Avenue and connect to proposed storm drain in Branford Street near Arleta Avenue				
New	1, 2, 9	1, 4, 5	SB 1, Stormwater Pollution Abatement Fund, BRIC	Short-Term
Hazards Mitigated: Flood				
<u>Socially Vulnerable</u> This action will assist socially vulnerable populations whose properties are impacted by				
<u>Population Impacts:</u> flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-10 —Construct a storm drain in Lasaine Avenue from the graded channel north of Oxnard street to Hatteras Street, and then east to Graves Avenue.				
New	1, 2, 9	1, 4, 5	SB 1, BRIC	Long-Term
Hazards Mitigated: Flood				
<u>Socially Vulnerable</u> This action will assist socially vulnerable populations whose properties are impacted by				
<u>Population Impacts:</u> flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use.				
LASAN-11 —Construct Los Angeles-Glendale Water Reclamation Plant Primary Effluent Equalization Storage and Campus Plan (CIP# 4176) to provide hydraulic relief to the NOS by diverting additional wet-weather flows to the plant for storage and attenuation of peak flows.				
New	1, 2, 9	1, 3, 4, 5	Sewer Construction and Maintenance Fund, Hazard Mitigation Grant Program (HMGP), Pre-Disaster Mitigation (PDM) Grant Program, Flood Mitigation Assistance (FMA) Program, City General Fund	Short-Term
Hazards Mitigated: Flood				
<u>Socially Vulnerable</u> This action will assist socially vulnerable populations whose properties are impacted by				
<u>Population Impacts:</u> flooding in the area and will ensure roadways are clear for emergency response and daily use.				
LASAN-12 —Assess the feasibility of purchasing or entering an MOU with an applicable company or institution, a mobile hazardous material collection program. This action will help the City plan and implement mobile household hazardous waste collection events, which may lead to increased participation.				
Existing	2, 8	1	Special Fund, HSGP	Long-Term
Hazards Mitigated: Hazardous Material Release				
<u>Socially Vulnerable</u> Hazardous materials which are unsafely collected or disposed may pose risks to				
<u>Population Impacts:</u> populations living near garbage collection locations, landfills, and incinerators. This action will ensure these materials are collected and disposed of properly and safely.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
<p>LASAN-13—The Industrial Waste Management Division of the City's Sanitation Department maintains the health and safety of the public and environment while protecting the City's water reclamation plants and their byproducts, biosolids, and treated wastewater. Despite being in charge of the regulation, monitoring, and control of the wastewater discharges for over 16,000 industrial users into the City sewers, the Industrial Waste Management Division does not have an Industrial Waste and Spill Prevention Program to protect stormwater structures/system. With stakeholders, create an Industrial Waste and Spill Prevention Program which will consist of education and outreach on hazards associated with waste discharges into waterways and water systems, formalize standard operating procedures, and specify permitting requirements.</p>				
Existing	1, 2, 3, 9	1, 3	General Fund	Short-Term
<p>Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; Tsunami and Seiche; Wildfire</p>				
<p>Socially Vulnerable Population Impacts: Socially vulnerable populations will learn how the City protects the local waterways and sources while preventing pollutants from infiltrating the potable water.</p>				
<p>LASAN-14—The City operates more than 6,700 miles of public sewers that convey about 400 million gallons per day of flow from residences and businesses to the City's four wastewater treatment and water reclamation plants. To accelerate sewer repairs, create an online reporting system for the public to submit sewerage problems in the City. Additionally, work with the City's On-site Wastewater Treatment Systems (OWTS) group to provide education to homeowners with private septic system on how to avoid the common issues of spills and overflows and proactively explore several funding sources to assist OWTS owners who would like to properly abandon the OWTS and connect to the City sewer.</p>				
Existing	1, 2, 9	1, 3, 4, 5	Sewer Operations & Maintenance Fund (SCMO) or Sewer Capital Fund, BRIC	Short-Term
<p>Hazards Mitigated: Flood</p>				
<p>Socially Vulnerable Population Impacts: This action will educate populations on how to avoid the common issues of spills and overflows and provide several funding sources to assist OWTS owners who would like to properly abandon the OWTS and connect to the City sewer.</p>				
<p>LASAN-15—Implementation of Flash Flood Warning System for Donald C. Tilman Plant, Los Angeles-Glendale Plant, Pumping Plant #3, and Pumping Plant #49.</p>				
New	1, 2, 9	1, 3, 5	Sewer Construction and Maintenance (SCM) Fund, HMGP, PDM Grant Program, FMA Program, General Fund	Short-Term
<p>Hazards Mitigated: Flood</p>				
<p>Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.</p>				
<p>LASAN-16—Revise the map of hillside areas to identify urban flooding "hot-spots" for maintenance needs and the identification of future stormwater management projects.</p>				
New & existing	1, 2, 6, 7	1, 4	Stormwater Pollution Abatement Fund, General Funds, SB 1	Long-Term
<p>Hazards Mitigated: Flood</p>				
<p>Socially Vulnerable Population Impacts: This action will assist socially vulnerable populations whose properties are impacted by flooding in the area and will ensure roadways are clear for emergency response and daily use.</p>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
<p>LASAN-17—Perform Watershed Protection and Stormwater Pollution Prevention Public Outreach and Education to the public, with outreach methods to include newsletter, website resources and references, webinars, and the sharing of the City’s Stormwater Pollution Prevention Plan and Stormwater Management Plan. Furthermore, provide these materials in both English and Spanish to ensure socially vulnerable populations can understand the outreach initiative.</p>				
Existing	2, 7, 12	1, 2	Stormwater Pollution Abatement Fund, Measure W	Long-Term
<p>Hazards Mitigated: Flood</p> <p>Socially Vulnerable Socially vulnerable populations will learn how the City protects the local watersheds</p> <p>Population Impacts: and water sources while preventing pollutants from infiltrating the potable water.</p>				
<p>LASAN-18—Perform a flood study on the City’s stormwater system to identify structural deficiencies which could exacerbate flooding conditions and potential flood mitigation measures which could be taken to reduce the flood risk in the City. Assess the identified flood mitigation measures and implement where applicable.</p>				
New	1, 2, 3, 4, 6, 7, 8, 9, 10, 11	1, 3, 4	Stormwater Pollution Abatement Fund, SCM	Long-Term
<p>Hazards Mitigated: Flood</p> <p>Socially Vulnerable This action will assist socially vulnerable populations whose properties are impacted by</p> <p>Population Impacts: flooding in the area and will ensure roadways are clear for emergency response and daily use.</p>				
<p>LASAN-19—Continue to improve the City’s Cybersecurity Posture to protect IT infrastructure and Data.</p>				
New & existing	2, 5, 7	1, 4	GASP funded (GF, CRTF, SPA, SCMO, and SWRF)	Long-Term
<p>Hazards Mitigated: Cyber Threats</p> <p>Socially Vulnerable Socially vulnerable populations may not be impacted by cyber-attack events to the extent of other social groups and populations. Socially vulnerable populations are often reliant on government or community programs for access to technology, such as laptops and desktops. Access to those items would be indirectly impacted if the agency or organization providing those services were directly impacted.</p>				
<p>LASAN-20—Recycle 100% of the City’s wastewater for beneficial use.</p>				
New & existing	1, 5, 6, 8, 9, 12	4, 5	Sewer Construction and Maintenance Funds, BRIC	Long-Term
<p>Hazards Mitigated: Flood</p> <p>Socially Vulnerable Through the City’s reuse of wastewater, less potable water will be utilized, reducing the</p> <p>Population Impacts: City’s overall potable water consumption for tasks which could use graywater. While this action will not increase the availability or amount of potable water, it will reduce its use of potable water which can be allocated or used elsewhere.</p>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LASAN-21 —Hyperion Water Reclamation Plant: Stabilize retaining walls, implement landslide prevention measures, construct emergency backup power to prevent disruption of critical services during power failure, and continue to evaluate tsunami risks to critical infrastructure.				
New & existing	1, 7, 8	1, 4, 5	Sewer Construction and Maintenance Funds, HMGP, Pre-Disaster Mitigation Grant Program (PDM), FEMA Flood Mitigation Assistance (FMA) Program, General Fund, CiSCo	Long-Term
Hazards Mitigated: Landslide, Tsunami				
Socially Vulnerable Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
Population Impacts: and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
LASAN-22 —Terminal Island Water Reclamation Plant: Construct flood walls, structures, gates, and obtain a backup generator to provide flood control prevention measures and prevent disruption of critical services during power failure.				
New & existing	1, 7, 8	1, 4, 5	Sewer Construction and Maintenance Funds, HMGP, Pre-Disaster Mitigation Grant Program (PDM), FEMA Flood Mitigation Assistance (FMA) Program, General Fund	Short-Term
Hazards Mitigated: Flood				
Socially Vulnerable Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
Population Impacts: and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
Department of Public Works Street Services (BSS)				
BSS-01 —Cool Neighborhood Project: Install gray-colored cool pavement coating on city blocks to reduce the effects of the urban heat island throughout the City.				
New	1, 2, 9	4	State Grant: Transforming Climate Communities	Short-Term
Hazards Mitigated: Extreme Heat				
Socially Vulnerable This action will reduce the effects of the urban heat island throughout the City,				
Population Impacts: improving health for the entire population and visitors.				
BSS-02 —Clean California Medians: Identify medians to enhance with turf in public rights-of-way throughout the City of Los Angeles. This project will use native Californian landscaping to mitigate the urban heat island effect and provide biodiversity benefits, replacing the old irrigation to water efficient system, and reduce debris withing the City's right-of-way.				
New	1, 2, 9	4, 5	State Grant: Clean CA Local Grant Fund	Short-Term
Hazards Mitigated: Extreme Heat, Flood				
Socially Vulnerable This action will reduce the effects of the urban heat island throughout the City,				
Population Impacts: improving health for the entire population and visitors.				
BSS-03 —Sidewalk and Transit Amenities Program: throughout the City, install bus shelters for shade, safety, and comfort for bus riders.				
Existing	1, 2, 9, 10	1, 4	Public Works Trust Fund Loan	Long-Term
Hazards Mitigated: Extreme Heat, High Wind				
Socially Vulnerable This action will protect the health of populations from hazards while waiting for public transit.				
Population Impacts: transit.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
Los Angeles Zoo				
ZOO-01 —Conduct annual fire, earthquake, animal escape, and Zoo evacuation exercises at the Los Angeles Zoo and Botanical Gardens.				
Existing	2, 5, 7, 12	1, 4	General Fund, EMPG	Short-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
Socially Vulnerable Population Impacts: This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard events.				
Harbor Department/Port of Los Angeles (POLA)				
POLA-01 —Conduct improvements and maintenance of bridges at the Port of Los Angeles.				
New & existing	1, 2, 9	1, 4	Harbor Department Capital Improvement, BRIC, HMGP	Short-Term
Hazards Mitigated: Earthquake; Flood; Landslide; Tsunami; Wildfire				
Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
POLA-02 —Continue to conduct and update Sea-Level Rise Adaptation Study to address the impact of sea-level rise at the Port of Los Angeles and use data for planning efforts.				
Existing	1, 2, 9	1, 3, 5	Harbor Department Capital Improvement, BRIC, HMGP	Long-Term
Hazards Mitigated: Flood; Landslide; Sea-Level Rise				
Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
POLA-03 —Conduct improvements and maintenance of wharfs at the Port of Los Angeles.				
Existing	1, 2, 9	1, 4	Harbor Department Capital Improvement, BRIC, HMGP	Short-Term
Hazards Mitigated: Earthquake; Flood; Landslide; Tsunami; Wildfire				
Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
POLA-04 —Continue the Port of Los Angeles Infrastructure Maintenance Program to perform infrastructure maintenance and mitigation improvement projects throughout the Port of Los Angeles.				
Existing	1, 3, 4, 10	1, 3, 4	Harbor Department Capital Improvement, BRIC, HSGP	Short-Term
Hazards Mitigated: Earthquake; Flood; Landslide; Tsunami; Wildfire				
Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
POLA-05 —Reduce the risk of a cyber-attacks that could disrupt the flow of cargo at the Port of Los Angeles.				
Existing	2, 5, 7	1, 4	Harbor Department Capital Improvement, BRIC, HSGP	Long-Term
<u>Hazards Mitigated:</u> Cyber Threats; Civil Disorder; Terrorism				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
<u>Population Impacts:</u>				
POLA-06 —Purchase and maintain communications and surveillance equipment for the Port of Los Angeles and Port Police.				
New & existing	2, 5, 7	1, 4	Harbor Department Capital Improvement, HSGP	Short-Term
<u>Hazards Mitigated:</u> Earthquake; Flood; Landslide; Tsunami; Wildfire; Terrorism; Cyber Threats				
<u>Socially Vulnerable</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by enhancing the City's capabilities for surveillance and information sharing to keep its response personnel informed of situational awareness.				
<u>Population Impacts:</u>				
POLA-07 —Conduct improvements and maintenance of roadways and ramps at the Port of Los Angeles.				
New & existing	1, 2, 9	1, 4	Harbor Department Capital Improvement, BRIC, HMGP	Short-Term
<u>Hazards Mitigated:</u> Earthquake; Flood; Landslide; Tsunami; Wildfire				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
<u>Population Impacts:</u>				
POLA-08 —Conduct improvements and maintenance of railroad system at the Port of Los Angeles.				
New & existing	1, 2, 9	1, 4	Harbor Department Capital Improvement, BRIC, HMGP	Short-Term
<u>Hazards Mitigated:</u> Earthquake; Flood; Landslide; Tsunami; Wildfire				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
<u>Population Impacts:</u>				
POLA-09 —Conduct electrical improvements throughout the Port of Los Angeles facilities and terminals.				
New & existing	1, 2, 9	1, 4	Harbor Department Capital Improvement, BRIC, HMGP	Long-Term
<u>Hazards Mitigated:</u> Earthquake; Flood; Landslide; Tsunami; Wildfire				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
<u>Population Impacts:</u>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
POLA-10 —Conduct seismic improvements to prevent operation disruptions in the Port of Los Angeles.				
New & existing	1, 2, 9	1, 4	Harbor Department Capital Improvement, BRIC, HMGP	Short-Term
<u>Hazards Mitigated:</u> Earthquake				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas. <u>Population Impacts:</u>				
POLA-11 —Continue dredging projects to maintain existing waterways throughout the Port of Los Angeles.				
New & existing	1, 2, 9	1, 4, 5	Harbor Department Capital Improvement, BRIC, HMGP	Long-Term
<u>Hazards Mitigated:</u> Earthquake; Flood; Landslide; Tsunami				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas. <u>Population Impacts:</u>				
POLA-12 —Enhance the fire protection system for the Port of Los Angeles facilities and terminals.				
Existing	1, 2, 9	1, 4	Harbor Department Capital Improvement	Long-Term
<u>Hazards Mitigated:</u> Earthquake; Wildfire				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas. <u>Population Impacts:</u>				
POLA-13 —Design and construct a new storm drain system to replace the existing one to provide proper drainage and reduce roadway flooding.				
New & existing	1, 2, 9	1, 4, 5	Harbor Department Capital Improvement, BRIC, HMGP	Long-Term
<u>Hazards Mitigated:</u> Flood				
<u>Socially Vulnerable</u> This action will assist socially vulnerable populations whose properties are impacted by flooding along flood prone roads and will ensure roadways are clear for emergency response and daily use. <u>Population Impacts:</u>				
City Planning				
CP-01 —Integrate the City's local hazard mitigation plan into future updates to the General Plan in compliance with California state mandates (AB2140, SB379, SB1000).				
Existing	1, 2, 4, 5, 6, 7, 8, 9, 10	3, 4, 5	General Fund	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable</u> Integrating local plans can assist in ensuring projects which would benefit socially vulnerable populations become identified and pursued. Plan implementation and maintenance allows for new vulnerabilities to be adopted into the plan(s). <u>Population Impacts:</u>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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<p>CP-02—All future updates to plans and programs that manage land use within the City will utilize the best available data, including the analysis in the local hazard mitigation plan on the risk exposure and vulnerability to all potential hazards in the City.</p>				
New & existing	2, 3, 6, 7	2, 3, 4, 5	General Fund	Long-Term
<p>Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire</p>				
<p>Socially Vulnerable Population Impacts: Integrating local plans can assist in ensuring projects which would benefit socially vulnerable populations become identified and pursued. Plan implementation and maintenance allows for new vulnerabilities to be adopted into the plan(s).</p>				

<p>CP-03—Assess and identify appropriate and applicable mitigation and resiliency regulatory standards that benefit socially vulnerable areas, especially in hazard prone areas, that also align with the City's core capabilities.</p>				
New & existing	2, 3, 7, 8, 9, 10	2, 3, 4, 5	General Fund	Long-Term
<p>Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire</p>				
<p>Socially Vulnerable Population Impacts: Integrating local plans can assist in ensuring projects which would benefit socially vulnerable populations become identified and pursued. Plan implementation and maintenance allows for new vulnerabilities to be adopted into the plan(s).</p>				

Climate Emergency Mobilization Office (CEMO)

<p>CEMO-01—Create, coordinate, and monitor the implementation of the City of Los Angeles's Heat Action & Resilience Plan, which includes expanding resilience, cooling Centers, and hubs with the lens on Equity and Reducing Health Risks created by extreme heat in coordination with various City divisions, departments, and offices, including the Office of the Mayor. Ensure centers have back-up power. Identify resiliency hubs as heating and cooling centers by providing temperature controlled environments to protect most at-risk populations.</p>				
New	6, 9, 10	1, 2, 3, 4, 5	General Fund, ICARP Extreme Heat and Community Resilience Program	Short-Term
<p>Hazards Mitigated: Extreme Heat and cold; High Wind</p>				
<p>Socially Vulnerable Population Impacts: Integrating local plans can assist in ensuring projects which would benefit socially vulnerable populations become identified and pursued. Plan implementation and maintenance allows for new vulnerabilities to be adopted into the plan(s).</p>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
Los Angeles Fire Department (LAFD)				
LAFD-01 —Conduct a feasibility study to determine the funding needs to compensate for the lapse identified in Standards of Coverage analysis. It is a vital mitigation strategy for earthquake, tsunami, and wildfire hazards. This would show the needed funds to ensure the Los Angeles Fire Department maintains staffing to perform its mission as an all-risk, all-hazard provider for the City of Los Angeles. Specifically tailored to address the functionality required during large-scale disasters such as earthquakes, tsunamis, or wildfires, this initiative aligns with the core capabilities of mitigation and response to seismic, coastal, and wildfire threats. Funding this feasibility study will contribute to enhancing preparedness, response, and overall resilience in the face of these significant hazards.				
New & existing	1, 2, 7	3, 4, 5	Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response, (SAFER), Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus)	Short-Term
Hazards Mitigated: Earthquake; Tsunami; Wildfire; Urban Structure Fire				
Socially Vulnerable Population Impacts: This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard events.				
LAFD-02 —Maintain Department Emergency Plans, including integration of hazard mitigation principles, plan development, plan review, and functional exercises.				
Existing	1, 2, 7, 12	3, 4, 5	General Fund, Assistance to Firefighters Grants (AFG), Fire Prevention & Safety Grants, State Homeland Security Program (SHSP), Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service), Los Angeles County Measure B (EMS/Bioterrorism), Hazard Mitigation Grant Program (HMGP)	Long-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
Socially Vulnerable Population Impacts: The section overview portion of the Emergency Plan covers a discussion of a variety of topics, including population distribution and locations, including any concentrated populations of individuals with disabilities, others with access and functional needs, or individuals with limited English proficiency.				
LAFD-03 —Develop fully qualified Type 3 Department Operations Center and Field and Incident Management Teams to support large incidents. Seek grant funding to train and implement strategy.				
New & existing	1, 2, 7, 12	1, 3	General Fund, Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response (SAFER), State Homeland Security Program (SHSP), Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus), Hazard Mitigation Grant Program (HMGP)	Short-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
Socially Vulnerable Population Impacts: This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard events.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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LAFD-04—The homelessness crisis presents a significant challenge in mitigating natural or human-caused disasters. To assess the necessary resources and fulfill the LAFD mission of addressing concerns related to homelessness during disasters, a feasibility study is required to determine the funding needed to address the potential impacts to provide for mitigation effort of the persons within very high severity hazard fire zones, flood, inundation zones.

New	1, 2, 7, 8, 10	1, 3	General Fund, Fire Prevention & Safety Grants, Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service), Hazard Mitigation Grant Program (HMGP)	Long-Term
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Hazards Mitigated: Earthquake; Tsunami; Wildfire; Urban Structure Fire; Oil spills

Socially Vulnerable This action will assess the necessary resources and fulfill the LAFD mission of addressing concerns related to homelessness during disasters, particularly focusing on mitigation effort of the persons within very high severity hazard fire zones, flood, inundation zones.

Population Impacts:

LAFD-05—Expand code enforcement personnel and policy to reduce the risk of wildland fires with cooperating and assisting agencies.

New & existing	1, 2, 5	3, 5	General Fund, Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service)	Long-Term
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Hazards Mitigated: Wildfire

Socially Vulnerable Officials and policies that are up to date on wildfire risk are more likely to encourage development outside areas of high risk. Safer dwellings may be developed in a less vulnerable location.

Population Impacts:

LAFD-06—Support an all-hazards response by enhancing the level availability of specialty operations (Aircraft, Rescue, and Marine). This would include fire fighter training, apparatus, Add a Type I Helitanker to the LAFD fleet, and staffing.

New & existing	2, 5	1, 4	General Fund, Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response (SAFER), Urban Areas Security Initiative (UASI), Community Wildfire Defense Grant Program (US Forest Service)	Long-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire; Urban Structure Fire; Oil Spills; Smoke and Air Pollution

Socially Vulnerable This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard events.

Population Impacts:

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
<p>LAFD-07—Weather related incidents often create conditions where heavy machinery is necessary to remove debris, make the area hospitable, and to ensure safe conditions. Develop hazard reduction projects, requiring heavy equipment to support the initiative. This includes hiring and training personnel, purchasing or obtaining MOUs for heavy equipment, and standard operating procedures.</p>				
Existing	1, 2, 7, 12	1, 3	General Fund, Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response (SAFER), Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Cal OES Community Resiliency & Listos Grants, Los Angeles County Measure B (EMS/Bioterrorism), Hazard Mitigation Grant Program (HMGP)	Short-Term
<p>Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Hazardous Material Release; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire</p>				
<p><u>Socially Vulnerable Population Impacts:</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard events.</p>				
<p>LAFD-08—Increase the equipment, staffing, and Training for the Department's Chemical, Biological, Radiological, Nuclear, and Explosives detection and response capabilities.</p>				
New & existing	1, 2, 7, 12	1, 5	General Fund, Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response (SAFER), Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Cal OES Community Resiliency & Listos Grants, Los Angeles County Measure B (EMS/Bioterrorism), Hazard Mitigation Grant Program (HMGP)	Long-Term
<p>Hazards Mitigated: Hazardous Material Release</p>				
<p><u>Socially Vulnerable Population Impacts:</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard events.</p>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
<p>LAFD-09—To decrease the Communication infrastructure vulnerabilities, include installation specifications and testing procedures to enhance the emergency responder radio system in alignment to current conditions of weather, interference, and areas or zones with limited communication and voice radio system to improve geographic coverage, add a VHF channel layer, and allow interoperability with allied agencies.</p>				
New & existing	2, 5, 7	1, 4, 5	General Fund, Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response (SAFER), Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Cal OES Community Resiliency & Listos Grants, Los Angeles County Measure B (EMS/Bioterrorism), Hazard Mitigation Grant Program (HMGP)	Short-Term
<p>Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire</p>				
<p>Socially Vulnerable Population Impacts: This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to communicate during hazard events.</p>				
<p>LAFD-10—Enhance and create interoperability for resource tracking, evacuation, and mapping during a large-scale incident and integration during a multi-agency area or region unified command incident.</p>				
New & existing	1, 2, 7	1, 5	General Fund, Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service)	Short-Term
<p>Hazards Mitigated: High Wind;Wildfire</p>				
<p>Socially Vulnerable Population Impacts: This action will create a smooth response operation, providing responders with the capability to access or reach vulnerable, impacted locations.</p>				
<p>LAFD-11—The effects of natural disasters, weather, and other failures require upgrades to the Los Angeles Fire Department’s alerting and communication systems to maintain functionality during disaster or power failure. A comprehensive survey has been completed to positively affect a plan to remedy such failures and acquire funding to implement backup sources and systems.</p>				
New & existing	1, 2, 7	1, 4, 5	General Fund, Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service)	Short-Term
<p>Hazards Mitigated: High Wind;Wildfire</p>				
<p>Socially Vulnerable Population Impacts: This action will ensure alerts will reach individuals in high-risk areas.</p>				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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LAFD-12—Collaborate with stakeholders to update disaster plans and geographic services to bolster community resilience, emphasizing the importance of training, family assistance centers, and “repopulation” functions within the Unified Incident Command System.

New & existing	1, 2, 5, 7, 12	3, 4, 5	General Fund, Assistance to Firefighters Grants (AFG), Staffing for Adequate Fire and Emergency Response (SAFER), Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service)	Short-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: This plan covers a discussion of a variety of topics, including population distribution and locations, including any concentrated populations of individuals with disabilities, others with access and functional needs, or individuals with limited English proficiency.

LAFD-13—Conduct feasibility and implementation plan to install and utilize solar energy and solar energy capturing systems within all fire department stations.

New & existing	1, 2	3, 5	General Fund, Fire Prevention & Safety Grants, Urban Areas Security Initiative (UASI), Los Angeles County Measure B (EMS/Bioterrorism), Hazard Mitigation Grant Program (HMGP)	Long-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: The energy collected from the solar energy systems will assist in the generation of power which can be dispersed through the City's utility system for public consumption, either at private residences or through use at public facilities.

LAFD-14—Develop funding and operational guidelines to ensure safe storage and disposal of hazardous materials within all Dept facilities.

Existing	2, 7, 12	1	General Fund, Fire Prevention & Safety Grants, Hazard Mitigation Grant Program (HMGP)	Short-Term
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Hazards Mitigated: Hazardous Material Release

Socially Vulnerable Population Impacts: Hazardous materials which are unsafely collected or disposed may pose risks to populations living near garbage collection locations, landfills, and incinerators. This action will ensure these materials are collected and disposed of properly and safely.

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LAFD-15 —Decrease carbon dioxide emissions by funding and purchasing electric vehicles in alignment with cities mandate to create zero emission fleet. This includes installation of EV charging stations to support fleet vehicles and employee-owned vehicles in each department facility.				
New & existing	1, 4	3	General Fund, Fire Prevention & Safety Grants, Hazard Mitigation Grant Program (HMGP)	Long-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by increasing the response fleet. Furthermore, by purchasing electric vehicles, the air in the City will be cleaner, and contain fewer pollutants which would otherwise impact vulnerable populations.			

LAFD-16 —Conduct a feasibility study to assess existing and future evacuation routes throughout the greater Los Angeles area, especially in wildland-urban interface areas.				
Existing	2, 7	1, 3	General Fund, Fire Prevention & Safety Grants, State Homeland Security Program (SHSP), Urban Areas Security Initiative (UASI), Cal Fire Grants (Wildland focus), Community Wildfire Defense Grant Program (US Forest Service)	Short-Term
<u>Hazards Mitigated:</u>	Earthquake; Flood; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Having pre-determined evacuation routes can assist socially vulnerable populations in preparing themselves and those within their community to evacuate in a safe, timely fashion.			

Los Angeles Police Department (LAPD)

LAPD-01 —Develop an Incident Command Post Center and Incident Management Teams to support large scale incidents and events. Seek grant funding to train and implement strategy.				
New & existing	5, 6, 12	1, 4	General Fund, UASI, SHSGP	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to large scale incidents and events.			
LAPD-02 —Identify critical facilities with inadequate back-up power supplies for extended periods of operation during power disruption incidents. Acquire and install backup generators.				
New & existing	1, 2, 8, 9	1, 5	General Fund, UASI	Short-Term
<u>Hazards Mitigated:</u>	Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire			
<u>Socially Vulnerable Population Impacts:</u>	Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.			

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LAPD-03 —Increase deployment and development of Hazardous Materials personnel with detection and identification equipment for all chemical, biological, nuclear, and radiological incidents in support of the operational area needs.				
New & existing	6, 9, 12	1, 4	General Fund, HSGP	Short-Term
<u>Hazards Mitigated:</u> Hazardous Material Release; Radiological Accident; Terrorism				
<u>Socially Vulnerable Population Impacts:</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard scenarios.				
LAPD-04 —Advance explosive detection technology by improving remote platform capabilities, enhancing x-ray capabilities for actionable intelligence, and ensuring training opportunities align with emerging threat response protocols.				
New & existing	8, 10, 12	1, 4	General Fund, UASI	Short-Term
<u>Hazards Mitigated:</u> Terrorism, Civil Disorder				
<u>Socially Vulnerable Population Impacts:</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to detect emerging threats, including acts terrorism.				
LAPD-05 —Enhance regional technological capabilities for detecting, deterring, and responding to chemical, biological, and radiological incidents by acquiring additional equipment and identifying needs aligned with current threats and mitigation tactics.				
New & existing	1, 8	1, 4	General Fund, UASI	Short-Term
<u>Hazards Mitigated:</u> Hazardous Material Release; Radiological Accident; Terrorism; Civil Disorder				
<u>Socially Vulnerable Population Impacts:</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by enhancing the City's capabilities for detecting, deterring, and responding to chemical, biological, and radiological incidents.				
LAPD-06 —Continuously enhance all-hazards response capabilities by acquiring additional mobile command infrastructure, identifying a minimum of 4 suitable locations for command center operations, securing funding for training evolutions, and conducting preparedness activities for major, natural, and human-caused events in the city.				
New & existing	1, 2, 5, 8, 12	1, 4	General Fund, UASI	Short-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by ensuring first responders have the capability to train for and respond to hazard scenarios.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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LAPD-07—Acquire a modern and robust video downlink/surveillance capability and ensure simplicity of deployment for all city agencies and within the operational area, coupled with a secure web-based system for efficient information sharing and situational awareness.

New & existing	5, 6, 7	1, 4	General Fund, UASI	Short-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: This action will assist in ensuring the safety of the entire population of the City, including socially vulnerable populations, by enhancing the City's capabilities for surveillance and information sharing to keep its response personnel informed of situational awareness.

LAPD-08—Develop funding and procedures to ensure safe collection and disposal of expired hazardous materials within all department facilities.

New & existing	2, 11	1, 4	General Fund	Short-Term
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Hazards Mitigated: Hazardous Material Release; Terrorism

Socially Vulnerable Population Impacts: Hazardous materials which are unsafely collected or disposed may pose risks to populations living near garbage collection locations, landfills, and incinerators. This action will ensure these materials are collected and disposed of properly and safely.

LAPD-09—Create implementation plan to install and utilize solar carports at Emergency Services Division facilities.

New & existing	1, 8, 9	4	General Fund, UASI	Short-Term
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Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire

Socially Vulnerable Population Impacts: The energy collected from the solar carports will assist in the generation of power which can be dispersed through the City's utility system for public consumption, either at private residences or through use at public facilities.

Los Angeles Housing Department

LAHD-01—Conduct a study and complete a report on the risks and recommended mitigation solutions for unreinforced masonry buildings.

Existing	1, 2, 7, 9	1, 3	General Fund, BRIC, HMGP	Long-Term
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Hazards Mitigated: Earthquake; Wildfire

Socially Vulnerable Population Impacts: This action will increase the safety of populations living in unreinforced masonry buildings. Many of these buildings were not built using modern building codes and are much more likely to experience damage or collapse during an earthquake.

LAHD-02—Conduct a study and complete a report on the risks and recommended mitigation solutions for mid- and high-rise multi-family buildings lacking fire suppression sprinklers.

Existing	1, 2, 7, 9	1, 3	General Fund, BRIC, HMGP	Long-Term
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Hazards Mitigated: Earthquake; Wildfire

Socially Vulnerable Population Impacts: This action will increase the safety of populations living in mid- and high-rise multi-family buildings. Many of these buildings were not built using modern building codes, nor do the buildings have an updated fire suppression system and are much more likely to experience damage or collapse during an earthquake.

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
Los Angeles Emergency Management Department (EMD)				
EMD-01 — Upgrade the City’s local hazard mitigation webpage to include upcoming public workshops on mitigation efforts, opportunities to reduce risk to properties (i.e., grant or financial opportunities), information on how to reduce hazard risk to their property, and resources available to provide further education.				
New & existing	2, 4, 5, 7, 10	1, 3, 4, 5	General Fund, HMGP	Short-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> Socially vulnerable populations are often the most at-risk from hazards due to pre-existing conditions and socioeconomic status. This action will educate and inform all populations, including the socially vulnerable, on the hazards which may occur in the City and how to mitigate the risk associated with those hazards.				
EMD-02 —Develop a comprehensive mitigation program with related action items which will include the creation of the City’s mitigation task force.				
New & existing	1, 2, 3, 4, 5, 6, 7, 11, 12	1, 3, 4, 5	General Fund, HMGP	Short-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> The mitigation task force will include members of the public so items which may otherwise go unnoticed will be addressed. This will give the population the opportunity to be included in mitigation initiatives and include the whole community.				
EMD-03 —Develop, update, and maintain GIS inventories of critical facilities, at-risk buildings and infrastructure and prioritize mitigation projects.				
New & existing	1, 2, 3, 7	1, 3, 4, 5	General Fund	Short-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
EMD-04 —Identify innovative data sources to understand the effects of climate change on a more granular level.				
New & existing	1, 2, 3, 7	1, 3, 4, 5	General Fund	Short-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable Population Impacts:</u> City employees and personnel understanding the impacts of climate change will have a positive impact on socially vulnerable populations, as programs and projects may be developed to assist the populations with identified hazards and identified projected hazard risks.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
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EMD-05 —Assess gaps in alert and warning systems in areas with degraded cell phone connectivity and implement solutions to ensure alerts will reach individuals in high-risk areas with little cell coverage.				
Existing	2, 7, 8	1, 3, 4, 5	General Fund, EMPG	Long-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
Socially Vulnerable Population Impacts: This action will ensure alerts will reach individuals in high-risk areas with little cell coverage.				

EMD-06 —Conduct a vulnerability assessment study to critical infrastructure.				
Existing	1, 2, 3, 7, 8	1, 3, 4	General Fund, BRIC	Long-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; Severe Wind; Tsunami and Seiche; Wildfire				
Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				

EMD-07 —The City will consider sponsoring eligible grant applications for the FEMA BRIC grant program from private non-profit entities within the City’s defined planning area when it has sufficient capacity and capability to submit and administer applications on behalf of the private non-profit entities. “Eligible” grant applications means that the project fits FEMA’s prescribed eligibility criteria for plans or projects, the project is feasible and has been shown to be cost-effective following FEMA methodologies.				
New & existing	5, 11	1, 3, 4	General Fund, BRIC	Long-Term
Hazards Mitigated: Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
Socially Vulnerable Population Impacts: Many FEMA grant opportunities require showing how or if a project will benefit socially vulnerable populations. This action will sponsor grant applications from private non-profit entities, which may otherwise not be submitted.				

Los Angeles Department of Water and Power (LADWP)

LADWP-01 —Install perimeter security walls at RS-C, RS-G, RS-F, and River SS. All four stations have a long history of break-ins, vandalism, and theft. They could be targets for terrorism as well. RS-F and RS-G are medium low-level CIP identified stations. Walls have been effective deterrents in other LADWP stations.				
Existing	1, 2	1, 4	General Fund, HSGP	Short-Term
Hazards Mitigated: Terrorism				
Socially Vulnerable Population Impacts: Protection of critical facilities provides an opportunity for first responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				

LADWP-02 —Weed Abatement to reduce the risk of wildfires.				
Existing	1, 2	1, 4, 5	General Fund	Short-Term
Hazards Mitigated: Wildfire				
Socially Vulnerable Population Impacts: Socially vulnerable populations in the City may be located within fuel risk areas for wildfires. Removing vegetative fuels increases the ignition resistance of homes and property.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LADWP-03 —Identify new needs and enhance existing facilities through the LADWP Pump Station Refurbishment Program.				
New & existing	1, 2, 7	1, 4, 5	DPW Operational Funds, BRIC, HMGP	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable</u> Vulnerable areas that may otherwise experience a loss of water during heavy rain or				
<u>Population Impacts:</u> flooding will be more likely to retain services.				
LADWP-04 —Identify new and enhance existing trunk lines and major system connections through the Trunk Lines and Major System Connections Program.				
New & existing	1, 2, 9	1, 4	DPW Operational Funds, BRIC	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind;Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable</u> Protection of critical facilities and infrastructure provides an opportunity for first				
<u>Population Impacts:</u> responders, utility workers, and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
LADWP-05 —Identify Hazard Mitigation Assistance eligible projects in the Infrastructure Reservoir Improvements Program (tanks only) and apply for eligible grants opportunities that mitigate identified issues				
New & Existing	1, 2, 6, 7	1, 4	DPW Operational Funds, BRIC, HMGP, PDM, FMA	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Drought; Earthquake; Extreme Cold or Freeze; Extreme Heat; Flood; Landslide; Sea-Level Rise, Coastal Flood and Erosion; High Wind; Tsunami and Seiche; Wildfire				
<u>Socially Vulnerable</u> The action will result in better preparedness within the Special Flood Hazard Area and				
<u>Population Impacts:</u> inundation areas where significant risk to socially vulnerable populations exists.				
LADWP-06 —Seismic Strengthen of DS Yard walls.				
Existing	1, 2, 3, 7	1, 4, 5	General Fund, BRIC	Long-Term
<u>Hazards Mitigated:</u> Earthquake				
<u>Socially Vulnerable</u> Protection of critical facilities provides an opportunity for first responders, utility workers,				
<u>Population Impacts:</u> and emergency managers to stage and deploy resources to vulnerable and hazard prone areas.				
LADWP-07 —Tinemaha Dam Replacement project: Dam and critical appurtenances will be replaced to reduce the risk of dam-related hazards such as earthquake and flooding.				
Existing	1, 2, 3, 6	1, 4, 5	General Funds, High-Hazard Potential Dam Grant	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Earthquake; Flood				
<u>Socially Vulnerable</u> The action will result in better preparedness within the Special Flood Hazard Area and				
<u>Population Impacts:</u> inundation areas where significant risk to socially vulnerable populations exists.				

Benefits new or existing assets	Objectives Met	Goals Met	Sources of Funding	Timeline
LADWP-08 —S. Haiwee Reservoir Spillway Channel Modifications. Harden Spillway channel upstream and downstream to prevent Erosion and Scour. Needed to protect new LADWP-owned Facilities downstream of S. Haiwee Dam.				
Existing	1, 2, 3, 6	1, 4, 5	General Funds, High-Hazard Potential Dam Grant	Long-Term
<u>Hazards Mitigated:</u> Dam Failure; Flood				
<u>Socially Vulnerable Population Impacts:</u> The action will result in better preparedness within the Special Flood Hazard Area and inundation areas where significant risk to socially vulnerable populations exists.				
LADWP-09 —Infrastructure Reservoir Improvements Program to reduce long-term vulnerabilities for high hazard and extremely high hazard dams owned by LADPW as identified for the risk assessment in this plan.				
Existing	1, 2, 3, 6	1, 3, 4, 5	General Funds, High-Hazard Potential Dam Grant	Long-Term
<u>Hazards Mitigated:</u> Dam Failure				
<u>Socially Vulnerable Population Impacts:</u> The action will result in better preparedness within the Special Flood Hazard Area and inundation areas where significant risk to socially vulnerable populations exists.				
LADWP-10 —Water Quality Improvement Project Reservoir Improvement Program.				
Existing	1, 2, 3, 6	1, 3, 4, 5	General Funds, High-Hazard Potential Dam Grant	Long-Term
<u>Hazards Mitigated:</u> Dam Failure				
<u>Socially Vulnerable Population Impacts:</u> The action will result in better preparedness within the Special Flood Hazard Area and inundation areas where significant risk to socially vulnerable populations exists.				

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years

Appendix D

Table 34-1. Plan Maintenance Strategy

Approach	Timeline	Lead Responsibility
Integration into Other Planning Mechanisms		
Create a linkage between the hazard mitigation plan and the City's General Plan or similar plans identified in the core capability assessments	Continuous over the 5-year performance period of the plan	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members
Plan Monitoring		
Track the implementation of actions over the performance period of the plan	Continuous over the 5-year performance period of the plan	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members
Plan Evaluation		
Review the status of previous actions; assess changes in risk; evaluate success of integration	Upon initiation of hazard mitigation plan update, comprehensive General Plan update, or major disaster	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members
Progress Report		
Meet and evaluate the progress of individual actions	At least once a year for the next 4 years on or about the plan's approval anniversary date	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members
Grant Monitoring and Coordination		
As grant opportunities present themselves, the City will consider options to pursue grants to fund actions identified in this plan	As grants become available	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members
Plan Update		
Begin the process, at a minimum, every 5 years to develop a comprehensive update of the plan.	Every 5 years or upon comprehensive update to General Plan or major disaster; funding and organizing for plan update will begin in FY 2026/2027	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members
Continuing Public Participation		
Keep a website maintained, hold public meeting once a year, and receive comments through the website. The website and comments will be maintained over the course of the plan.	Continuous over the 5-year performance period of the plan	EMD Planning Division Chief with necessary support from relevant Hazard Mitigation Task Force members.

Other planning processes and programs to be coordinated with the recommendations of the hazard mitigation plan include the following:

- City of Los Angeles General Plan
- Climate Action Plans
- Resilience Plans