

Natural Hazard	Action Item	Coordinating Organization / Internal Partners	Timeline	Ideas for Implementation	Plan Goals Addressed				
					Highest Priority ----->				
					Identify risk level and evaluate Portland's vulnerability to natural hazards	Implement activities to protect human life, property and natural systems.	Promote public awareness, engage public participation, and enhance partnerships through education, outreach and coordination	Establish a disaster resilient economy.	Build and support the capacity and commitment to continuously become less vulnerable to hazards.
City of Portland Natural Hazard Mitigation Plan Action Items - Organized by Hazard									
Multi-Hazard Mitigation Action Items									
Short-Term Multi-Hazard #1	Continue to involve the public in updating the Natural Hazard Mitigation Plan.	Portland Office of Emergency Management, Bureau of Planning	ST				✓	✓	
Short-Term Multi-Hazard #2	Form a committee to identify and coordinate critical transportation (street and highway) networks.	Portland Department of Transportation, Bureau of Maintenance / <i>Bureaus of Planning, Fire & Rescue, Police, Parks and Recreation, Urban Forestry</i>	ST		✓		✓	✓	
Short-Term Multi-Hazard #3	Improve enforcement of state recommendations to prohibit essential facilities in hazard areas.	Bureau of Development Services / <i>Portland Office of Emergency Management; Fire, Police</i>	ST			✓	✓	✓	
Short-Term Multi-Hazard #4	Revise Portland's Comprehensive Plan to address natural hazards including, but not limited to, floods, landslides, earthquakes, wildland fires, and winter storms.	Bureau of Planning / <i>Portland Office of Emergency Management</i>	ST		✓	✓		✓	
Short-Term Multi-Hazard #5	Incorporate assessment of terrorist threats into Portland's Hazard Mitigation Plan. Additionally, consider natural hazards if future opportunities to address terrorist threats to Portland arise.	Portland Office of Emergency Management / <i>Bureaus of Fire & Rescue, Police, and Transportation</i>	ST		✓		✓	✓	
Short-Term Multi-Hazard #6	Acquire Light Detection and Ranging (LIDAR) images of the Portland Metro area and the Bull Run Watershed.	Portland Office of Emergency Management / <i>Corporate GIS, Bureau Environmental Services, Fire and Rescue, Bureau of Water, Portland Office of Transportation</i>	ST		✓			✓	
Short-Term Multi-Hazard #7	Use findings from Portland's Risk Assessment (HAZUS-MH) to enhance the existing debris removal plan.	Bureau of Sustainable Development / <i>Portland Office of Emergency Management, Portland Office of Transportation, Maintenance, Bureau of Environmental Services</i>	ST		✓	✓			
Short-Term Multi-Hazard #8	Create a mitigation mapping committee.	Portland Office of Emergency Management, Corporate GIS / <i>Bureau of Environmental Services, Portland Department of Transportation, Bureau of Development Services, Fire Bureau, Water Bureau</i>	ST		✓			✓	
Short-Term Multi-Hazard #9	Partner with utilities as they ensure continuity of service to the City of Portland.	Portland Office of Emergency Management / <i>Disaster Policy Council, Mitigation Sub-Committee leaders; Cable and Franchise</i>	ST				✓		
Short-Term Multi-Hazard #10	Develop a city employee emergency response plan to assure that city employees know what is expected of them so that services are continued.	Portland Office of Emergency Management / <i>Disaster Policy Council; Human Resources, OMF, Bureau of General Services, Fire and Rescue, Police, Emergency Communications</i>	ST				✓		

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Long -Term Multi-Hazard #1	Develop a public outreach program to raise awareness of hazard risk.	Portland Office of Emergency Management / Bureau of Planning, Disaster Policy Council, NETs, Bureau of Sustainable Development, Bureau of Development Services, Bureau of Environmental Services, Bureau of Water, Parks and Recreation, Office of Neighborhood Involvement, Portland Office of Transportation, Bureau of Maintenance	LT				✓		
Long-Term Multi-Hazard #2	Increase the responsiveness of the emergency permitting procedures for post-hazard event periods through development of a procedural plan and the purchase of a mobile permitting van.	Bureau of Development Services / Portland Department of Transportation, Bureau of Maintenance, Bureau of Environmental Services, Water Bureau, Risk Management	LT				✓		✓
Long-Term Multi-Hazard #3	Develop citywide vegetation protection/planting goals, policies, and plans and implementing tools. Coordinate with vegetation management strategy development for wildfire, flood, and landslide hazard mitigation.	Bureau of Planning, Bureau of Environmental Services / Bureaus of Development Services, Parks and Recreation; Fire & Rescue	LT			✓			✓

Flood Mitigation Action Items

City of Portland - Risk Assessment Score Rating: **High**

Short-Term Flood #1	A covenant is recorded with the deed of new development in the floodplain to ensure that space below the BFE is not converted to habitable space. This should be codified to improve compliance.	Bureau of Development Services	ST				✓		
Short-Term Flood #2	Continue to co-fund improvements to river and stream gauges in the Portland metropolitan area with the United States Geological Survey.	Bureau of Environmental Services	ST				✓		
Short-Term Flood #3	Convene an interagency committee to determine which datum will be used when the City is responding to a flood event. This decision will not preclude agencies from using their own datum during non-flood times.	Harbor Master, Fire Bureau / Bureau of Development Services, Portland Office of Emergency Management	ST						✓
Short-Term Flood #4	Secure the agreements necessary to design and implement the redevelopment of Freeway Land Company site (within the Lents Urban Renewal Area) to better manage floods.	Bureau of Environmental Services / Portland Development Commission; Bureau of Planning, Portland Office of Transportation, Portland Parks and Recreation	ST				✓		
Short-Term Flood #5	Acquire outside funding to lead the application process for a Class 5 rating the next time the City submits for the Community Rating System certification.	Bureau of Environmental Services, Community Rating System Coordinator / Bureau of Development Services; BoP; Parks; Portland Office of Emergency Management; Bureau of Maintenance	ST						✓
Short-Term Flood #6	Support MCDD in the continued calibration and updating of hydraulic models for conveyance and internal flood impacts to the four managed floodplains managed by Multnomah County Drainage District # 1.	Portland Office of Emergency Management, Bureau of Environmental Services / Bureau of Planning	ST		✓				
Short-Term Flood #7	Develop a multiple-agency plan for evacuation of the managed Columbia River floodplain in Multnomah County in the event of a potential levee failure.	Mitigation Program Coordinator, Portland Office of Emergency Management / Portland Office of Transportation	ST						✓
Short-Term Flood #8	Secure funding to implement the passive flood management projects that are recommended in the Johnson Creek Restoration Plan. Coordinate with Portland Development Commission's urban renewal efforts in Lents and with other partners in other parts of the watershed.	Bureau of Environmental Services, Johnson Creek Watershed Manager / Portland Development Commission, Parks and Recreation	ST						✓

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Short-Term Flood #9	Identify funding for the design and construction of the Springwater Wetlands Complex, a 30-acre floodplain wetland restoration project in the Lents area of Johnson Creek.	Johnson Creek Watershed Manager, Bureau of Environmental Services / <i>Parks and Recreation, Portland Development Commission</i>	ST			✓			
Short-Term Flood #10	Improve definitions and refine standards for stormwater retention in the Stormwater Management Manual (SWMM).	Development Services Division, Bureau of Environmental Services / <i>Bureau of Development Services, Bureau of Planning</i>	ST						✓
Short-Term Flood #11	Support development of a multiple-agency plan for Marine Drive closure coordination.	Portland Office of Emergency Management Mitigation Program Coordinator / <i>Bureau of Water, Portland Office of Transportation</i>	ST			✓			
Short-Term Flood #12	Provide staff to participate in Flood Fight Trainings lead by the Multnomah County Drainage District.	Portland Office of Emergency Management, Mitigation Program Coordinator / <i>Bureau of Maintenance, Police, Water Bureau</i>	ST				✓		✓
Short-Term Flood #13	Install a river gauge in the vicinity of the bridge over Johnson Creek at 108th. The gauge should be able to send data to a remote monitoring site.	Bureau of Maintenance, Environmental Systems Division Manager / <i>Bureau of Environmental Services; Portland Office of Transportation</i>	ST			✓			
Short-Term Flood #14	Install one-way valves on the outlet pipes of the storm inlets on SE Foster Road between 101st and 112th.	Environmental Systems Division Manager, Bureau of Maintenance / <i>Bureau of Environmental Services</i>	ST			✓			
Long-Term Flood #1	Increase funding for the Johnson Creek Willing Seller Program; establish willing seller programs in other watersheds where flood hazard and priority restoration areas coexist.	Watershed Managers, Bureau of Environmental Services / <i>Department of Parks and Recreation, Bureau of Planning, Water Bureau</i>	LT						✓
Long-Term Flood #2	Review and amend City Code to require that all facilities that store or handle hazardous materials (including large tanks), and which are located in the 500-year floodplain or landslide hazard areas, develop a hazardous materials inventory statement. This statement will be made available for Fire Bureau review. Require that these storage tanks are either adequately protected or relocated outside of the 500 year floodplain.	Chief Fire Marshal / <i>Harbor Master, Fire Bureau, Portland Office of Emergency Management, Bureau of Development Services</i>	LT			✓			
Long-Term Flood #3	Develop a plan for addressing flooding in the Holgate Lake area.	Bureau of Environmental Services / <i>Bureau of Development Services, Parks and Recreation, Bureau of Planning</i>	LT						✓
Long-Term Flood #4	Improve hydraulic bottleneck that prevents discharge of chlorinated effluent to the Willamette River during high river levels.	Operating Manager Tryon Creek Wastewater Treatment Plant, Bureau of Environmental Services	LT			✓			
Long-Term Flood #5	As Waterfront Park remodeling is designed, ensure that Portland's downtown property and critical facilities remain protected from floodwaters.	Parks and Recreation / <i>Harbor Master/ Fire Bureau, Bureau of Planning, Bureau of Development Services</i>	LT			✓			
Long-Term Flood #6	Support Multnomah County Drainage District (MCDD) as they develop a multiple-agency plan for initiation of traffic closure on the Columbia River as advised by MCDD and the Army Corps of Engineers.	Mitigation Program Coordinator, Portland Office of Emergency Management / <i>Portland Office of Transportation</i>	LT						✓
Long-Term Flood #7	Partner with Army Corps of Engineers to conduct modeling of the Willamette River upstream of Portland to identify areas that, if acquired or restored, would contribute to mitigation of peak flows in Portland or result in significant reduction of flood damages.	Bureau of Environmental Services Systems Analysis Group	LT		✓				
Long-Term Flood #8	Develop citywide, watershed or sub-watershed specific goals, policies, and provisions for amount of impervious surface that should be reduced. Develop implementation tools to meet these goals.	Bureau of Planning, Bureau of Environmental Services / <i>Bureau of Development Services, Portland Office of Transportation</i>	LT			✓			
Long-Term Flood #9	Upgrade trestles that carry the main conduits of the water delivery system.	Water Bureau	LT			✓		✓	

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Long-Term Flood #10	Create redundancy in the water delivery system at the three Sandy River crossings by burying conduits under the river.	Water Bureau, Operations and Support Manager	LT			✓			
Long-Term Flood #11	Provide funding for and participate in the development of a flood inundation model for the managed floodplains and downtown seawall.	Portland Office of Emergency Management Mitigation Program Coordinator / COP, Bureau of Environmental Services, Water Bureau	LT						✓
Earthquake Mitigation Action Items									
City of Portland - Risk Assessment Ranking High									
Short-Term Earthquake #1	Using television and print media, educate the public about the importance of signs containing bridge identification information during an earthquake.	Portland Office of Transportation	ST				✓		
Short-Term Earthquake #2	Assess existing earthquake related mitigation plans and vulnerability studies to identify areas of conflict, duplication, or gaps.	Portland Office of Emergency Management / Fire Bureau, Office of Transportation, Bureau of Environmental Services, Water Bureau, Bureau of Development Services, Bureau of Planning	ST						✓
Short-Term Earthquake #3	Update the vulnerability analysis of Columbia Boulevard Wastewater Treatment Plant (CBWTP), Tyron Creek Wastewater Treatment Plant (TCWTP), and wastewater pump stations.	Bureau of Environmental Services	ST		✓				
Short-Term Earthquake #4	Prioritize the return of power to treatment plants (Tyron Creek and Columbia Boulevard) and pump stations.	Bureau of Environmental Services / Portland Office of Emergency Management	ST			✓			
Short-Term Earthquake #5	Lobby to implement legislation of General Obligation Bonds to fund rehabilitation of critical structures.	Governmental Relations / Bureau of Development Services, Portland Development Commission, Portland Office of Emergency Management, Office of Transportation, Parks and Recreation	ST						✓
Short-Term Earthquake #6	Address earthquake-generated landslide issues.	Portland Office of Emergency Management	ST			✓			
Short-Term Earthquake #7	Work with local jurisdictions to assess the capacity of landfills to accommodate earthquake debris; develop coordinated plans for disposal of debris in the aftermath of an earthquake.	Portland Office of Emergency Management / Bureau of Maintenance, Office of Sustainable Development	ST					✓	
Short-Term Earthquake #8	Study the feasibility of mandatory or voluntary installation of seismic shutoff valves on natural gas meters at commercial and residential buildings.	Bureau of Fire / Bureau of Development Services, Bureau of Fire, Portland Office of Emergency Management	ST			✓			
Short-Term Earthquake #9	Develop emergency evacuation plans for residential areas that are near significant hazardous materials storage facilities and heavy industrial areas.	Fire Bureau / Portland Office of Emergency Management	ST		✓	✓			
Long-Term Earthquake #1	Evaluate funding alternatives that might accelerate seismic retrofitting of the City of Portland's bridges.	Portland Office of Transportation	LT			✓		✓	
Long-Term Earthquake #2	Conduct a vulnerability analysis of Portland's sewer system to identify elements with the potential for failure.	Bureau of Environmental Services / Corporate Geographic Information Systems, Portland Department of Transportation, Fire Department, Police Department, Portland Office of Emergency Management, Bureau of Water	LT		✓				
Long-Term Earthquake #3	Develop a plan to strengthen sewer infrastructure in areas where street overlays and sewers have potential to collapse in a seismic event.	Portland Office of Transportation / Corporate GIS; Bureau of Maintenance, Bureau of Environmental Services, Bureau of Water, Portland Office of Emergency Management	LT			✓			

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Long-Term Earthquake #4	Develop a sewer failure response plan.	Environmental Services / Corporate GIS, Maintenance, Environmental Services, Bureau of Water	LT							✓
Long-Term Earthquake #5	Develop an educational program that targets homeowners, providing them with inexpensive methods that they can use to strengthen their homes against earthquake damage.	Portland Office of Emergency Management / Bureau of Development Services, Bureau of Water, Fire Department	LT			✓		✓		
Long-Term Earthquake #6	Assess the vulnerability of the water distribution system to seismic events; work toward hardening the system.	Bureau of Water	LT			✓				
Long-Term Earthquake #7	Partner with DOGAMI and USGS to obtain funding for completion of fault mapping and improved technology for the transfer of data and information.	Portland Office of Emergency Management	LT		✓					
Long-Term Earthquake #8	Study development regulations and policies to ascertain if regulations can be made to limit development of high risk facilities in known areas of earthquake hazards.	Portland Office of Emergency Management / Bureau of Development Services, Bureau of Planning, Portland Department of Transportation, Bureau of Fire	LT							✓
Long-Term Earthquake #9	Assess the stability of levees in the Columbia Corridor area, and develop appropriate emergency response plans to address potential levee failure and associated hazards.	Portland Office of Emergency Management / Bureau of Water, Fire Bureau, Bureau of Environmental Services, Bureau of Maintenance	LT			✓				✓

Landslide Mitigation Action Items

City of Portland - Risk Assessment Rating **Medium**

Short-Term Landslide #1	Develop a comprehensive landslide map for the City of Portland to identify hazard areas and improve communication with the public.	Bureau of Development Services / Planning Bureau, Water Bureau, Bureau of Environmental Services, Portland Department of Transportation, Bureau of Maintenance, Parks Department	ST		✓			✓		
Short-Term Landslide #2	Continue to maintain and improve internal City communications to facilitate coordination of landslide mitigation activities.	Bureau of Development Services / Bureau Of Environmental Services, Portland Department Of Transportation, Bureau Of Maintenance, Bureau of Water, Parks and Recreation, Risk Management	ST							✓
Short-Term Landslide #3	Improve property owner awareness of the importance of proper maintenance of private drainage systems.	Bureau of Environmental Services / Bureau of Maintenance	ST					✓		
Short-Term Landslide #4	Mitigate Portland's water supply infrastructure from landslide hazards.	Bureau of Water	ST			✓				
Short-Term Landslide #5	Acquire land or apply conservation easement for long term and permanent mitigation of risk.	Bureau of General Services / Bureau of Planning, Parks and Recreation, Bureau of Development Services, Bureau of Environmental Services, Risk Management	ST			✓				
Short-Term Landslide #6	Initiate more operations and maintenance pilot projects along roads that inform the development of standards for managing stormwater in ditches in landslide prone areas.	Bureau of Environmental Services / Bureau of Maintenance	ST					✓		
Short-Term Landslide #7	Complete a study of the West Hills drainage system that addresses the cumulative effects of development in the area.	Bureau of Environmental Services, Planning and Modeling and Engineering Services / Bureau of Planning, Bureau of Development Services (Site Development)	ST		✓					
Short-Term Landslide #8	Continue development of standards for small pump stations as an alternative to gravity sewers in inaccessible or high risk areas.	Bureau of Environmental Services / Bureau of Development Services	ST					✓		
Long-Term Landslide #1	Review the effectiveness of regulations related to development in identified landslide hazard areas.	Bureau of Development Services (Land Use Services and Site Development), Bureau of Planning / Bureau of Planning, Bureau of Environmental Services	LT			✓				

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Long-Term Landslide #2	Update the Bureau of Environmental Services Sewer and Drainage Facilities Design Manual.	Bureau of Environmental Services	LT			✓			
Long-Term Landslide #3	Employ alternate construction methods such as trenchless construction on City projects to reduce the impact that development can have in landslide prone areas.	Bureau of Environmental Services / Staff in Bureau of Environmental Services	LT			✓			
Wildfire Mitigation Action Items									
City of Portland - Risk Assessment Rating Medium									
Short-Term Wildfire #1	Consolidate unassigned and/or unmanaged vegetated areas owned by the City of Portland under a single land management umbrella.	Parks, Bureau of Environmental Services / Water, Portland Office of Transportation, Bureau of General Services	ST						✓
Short-Term Wildfire #2	Procure funding for management of vegetated natural areas with high wildfire danger, including public and private properties.	Fire, Portland Parks and Recreation, Bureau of Environmental Services / Bureau of Planning, Portland Office of Transportation, Bureau of General Services	ST						✓
Short-Term Wildfire #3	Review and index existing maps with pertinent wildfire information. Identify parameters and methods for new maps as needed to meet wildfire mitigation goals.	Fire, Bureau of Development Services, Corporate GIS / BIT, Planning, Parks, Bureau of Environmental Services, Bureau of Water	ST		✓				
Short-Term Wildfire #4	Provide wildfire management training for City staff.	Portland Fire and Rescue / Parks and Recreation, Bureau of Environmental Services, Bureau of Water, Bureau of Maintenance	ST						✓
Short-Term Wildfire #5	Amend the Portland Plant List and other related City plant lists and landscaping guides to include/identify fire resistant native plants, and planting strategies that could be encouraged or required in local landscaping.	Bureau of Planning / DS, Fire and Rescue, Parks and Recreation, Bureau of Environmental Services, Portland Office of Transportation	ST						✓
Short-Term Wildfire #6	Integrate, as appropriate, fire prevention goals and provisions into City policies, plans, and codes. Identify and address ambiguities or conflicts among city requirements.	Bureau of Planning / Bureau of Development Services, Fire and Rescue, Parks and Recreation, Bureau of Environmental Services, Portland Office of Transportation	ST						✓
Short-Term Wildfire #7	Identify conditions of approval and mitigation strategies that could be applied to new development or redevelopment in high fire risk areas.	Bureau of Development Services / Bureau of Planning, Fire and Rescue, Parks and Recreation, Bureau of Environmental Services, and Portland Office of Transportation	ST			✓			
Short-Term Wildfire #8	Integrate wild land fire risk educational opportunities into existing City stewardship programs. Provide education for both internal and external partners.	Bureau of Environmental Services / Fire and Rescue, Bureau of Water, Bureau of Planning, Bureau of Development Services, Parks and Recreation, Portland Office of Transportation, Portland Office of Emergency Management, Office of Neighborhood Involvement	ST				✓		
Short-Term Wildfire #9	Improve the system for identifying new construction in areas subject to wildfires and communicating this information to the affected land owners.	Bureau of Development Services / Fire and Rescue; Bureau of Water, Portland Office of Transportation, Office of Neighborhood Involvement, Bureau of Planning	ST				✓		✓
Short-Term Wildfire #10	Conduct systematic reviews of Portland's large, publicly owned, wildland tracts regarding fire safety and ecological health to inform land management decisions.	Portland Parks and Recreation / Bureau of Environmental Services, Fire and Rescue, Bureau of Water, Bureau of Planning, Portland Office of Transportation, Office of Neighborhood Involvement	ST		✓				
Short-Term Wildfire #11	Adopt the national "Fire Danger Rating System" and install the signs at key points in the City.	Fire and Rescue / Office of Neighborhood Involvement	ST				✓		
Short-Term Wildfire #12	Implement a neighborhood wildland interface disaster planning program.	Portland Office of Emergency Management, Neighborhood Emergency Team, Office of Neighborhood Involvement / Fire and Rescue, Police	ST				✓		

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Short-Term Wildfire #13	Review and potentially refine City contract specifications for machinery operations during "Red Flag" weather conditions.	Fire and Rescue / Bureau of Environmental Services, Portland Parks and Recreation, Water, Bureau of Maintenance	ST			✓			
Short-Term Wildfire #14	Convene a standing wildland interface fire technical group.	Fire and Rescue / Portland Parks and Recreation, Bureau of Environmental Services, Portland Office of Emergency Management, Bureau of Water, Portland Office of Transportation, Bureau of Development Services, Bureau of Planning	ST						✓
Short-Term Wildfire #15	Index City wildfire mitigation plans and activities.	Fire and Rescue / Portland Parks and Recreation, Bureau of Environmental Services, Portland Office of Emergency Management, Portland Office of Transportation, Metro, Bureau of Development Services, Bureau of Planning	ST						✓
Short-Term Wildfire #16	Identify water grid engineering requirements for firefighting in wildfire areas.	Bureau of Fire, Bureau of Water	ST			✓			
Long-Term Wildfire #1	Improve public education and understanding about wildfire occurrence, risk, and prevention.	Portland Fire and Rescue / Parks, Bureau of Environmental Service, Portland Office of Transportation, Bureau of Planning	LT				✓		
Long-Term Wildfire #2	Review the feasibility of adopting portions of nationally recognized wildfire interface codes to strengthen building standards in wildfire risk areas.	Portland Fire & Rescue, Bureau of Development Services	LT			✓			
Long-Term Wildfire #3	Design and conduct a study to determine the effectiveness of maintenance agreements that are established when new land divisions are approved to manage vegetation in open space tracts.	Bureau of Development Services, Fire and Rescue / Bureau of Planning, Parks and Recreation, Bureau of Environmental Services, Portland Office of Transportation, and the Office of Neighborhood Involvement	LT		✓				
Long-Term Wildfire #4	Complete an assessment to characterize high priority wildfire risk areas and recommend specific mitigation strategies.	Fire and Rescue / Parks and Recreation, Bureau of Environmental Services, Bureau of Planning, Bureau of Development Services, Bureau of Water, Portland Office of Transportation	LT		✓				
Long-Term Wildfire #5	Explore avenues for funding interface home construction upgrades to low income homeowners.	Fire and Rescue / Bureau of Development Services, Office of Neighborhood Involvement	LT						✓