

9.6 City of White Plains

This section presents the jurisdictional annex for the City of White Plains. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the municipality and who in the City participated in the planning process; an assessment of the City of White Plains’ risk and vulnerability; the different capabilities utilized in the City; and an action plan that will be implemented to achieve a more resilient community.

9.6.1 Hazard Mitigation Planning Team

The following individuals have been identified as the City of White Plains’ hazard mitigation plan primary and alternate points of contact. The City of White Plains followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many City departments, including: Department of Public Works, Police Department, Fire Department, Planning Department and Building Department. The Department of Public Works represented the community on the Westchester County Hazard Mitigation Plan Planning Partnership and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

The following table summarizes municipal officials that participated in the development of the annex and in what capacity. Additional documentation on the municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

Table 9.6-1. Hazard Mitigation Planning Team

Primary Points of Contact	Alternate Point of Contact
Name/Title: Richard Hope, Commissioner Stefania Mignone, Deputy Commissioner, Department of Public Works Address: 255 Main Street White Plains, New York 10601 Phone Number: RH – 914-422-1210, SM – 914-422-1222 Email: rhope@whiteplainsny.gov , smignone@whiteplainsny.gov NFIP Floodplain Administrator	Name/Title: Ed Calvano, Lieutenant White Plains Police Department Address: 255 Main Street White Plains, New York 10601 Phone Number: 914-422-6111 Email: ecalvano@whiteplainsny.gov
Name/Title: Nok Siriphonlai, P.E. , Deputy Commissioner, Department of Public Works Address: 255 Main Street White Plains, New York 10601 Phone Number: 914-422-1212 Email: usiriphonlai@whiteplainsny.gov	
Additional Contributors	
Name/Title: Michael Zaino, Department of Public Works, Engineering Bureau, 255 Main Street, White Plains, NY 10601 Method of Participation: Completed Worksheets and facilitated the completion of Worksheets	
Name/Title: Peter Froyton, Associate Engineer, Department of Building Method of Participation: Completed Worksheets	

9.6.2 Municipal Profile

White Plains’ 9.9 square miles and estimated 2019 resident population of 58,137 belie its stature as a regional center for business, retail, government, and medical services; its commercial base and business economy are comparable to those of cities larger in size and with two to three times the population. Its downtown has now

become a major center of residential living. Most importantly, White Plains remains a city of distinct and diverse residential neighborhoods, with 24 organized neighborhood associations and a new downtown residents' association. The residents identify with both the City and their neighborhoods.

White Plains is located in the central part of Westchester County and is bounded by the Town of North Castle to the north, the Town of Harrison to the east and south, and the Village of Scarsdale and the Town of Greenburgh to the west. It ranks third largest in land area among the County's six cities, behind Yonkers and New Rochelle. White Plains is the County seat and is easily accessible from all parts of Westchester County and the Metropolitan Region via expressways, parkways, and the County bus system. The Harlem Division of the Metro-North Commuter Railroad provides the City with rail service to Mid-town Manhattan in 35 minutes. The nearby Westchester County Airport provides direct and indirect access to major cities throughout the United States. Excellent regional access, a series of major corridor streets leading to the Core Area, and a large supply of municipal parking have been important factors in the successful development of White Plains as a regional center.

According to the U.S. Census, the 2010 population for the City of White Plains was 56,853. The estimated 2019 population was 58,137, a 2.3 percent increase from the 2010 Census. Data from the 2019 U.S. Census American Community Survey indicate that 5.0 percent of the population is 5 years of age or younger and 17.4 percent is 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

9.6.3 Jurisdictional Capability Assessment and Integration

The City of White Plains performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community's adaptive capacity to withstand hazard events.

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in this Jurisdictional Capability Assessment (Section 9.6.3). The City of White Plains' identified opportunities for integration of mitigation concepts to be incorporated into municipal procedures are included in the updated mitigation strategy.

Planning, Legal, and Regulatory Capability and Integration

The table below summarizes the regulatory tools that are available to the City of White Plains. The comment field provides information as to where hazard mitigation has been integrated.

Table 9.6-2. Planning, Legal, and Regulatory Capability and Integration

Document Type	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Codes, Ordinances, & Regulations					
Building Code	Yes	Yes	Supplemental Uniform Building and Fire Codes City of White Plains, New York, updated 5/30/2018	State and Local	Commissioner of Building
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The White Plains Supplemental Building Code is comprised of a series of individual codes. These codes include The White Plains Building Code—Administration and Enforcement, The White Plains General Construction Code, The White Plains Mechanical Code, The White Plains Electrical Code, The White Plains Fire Code, The White Plains Smoke Control Code, The White Plains Plumbing Code, The White Plains Vertical Transportation Code and The White Plains Property Maintenance Code. 					
Zoning/Land Use Code	Yes	No	Chapter 9-2, Zoning	Local	Commissioner of Building
<i>How does this reduce risk?</i>					
Subdivision Ordinance	Yes	No	Chapter 9-4, Subdivisions	Local	Planning Board
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> Before any property is subdivided into two (2) or more lots, the subdivider shall apply in writing to the board requesting approval of preliminary plans for the entire subdivision and conditional approval of final plans of all or part of such subdivision as determined by the board and required hereinafter. After conditional approval has been granted, final approval may be given when all stipulated conditions have been complied with, such final approval being given by affixing the signature of the board chairman to the final plat plan after said plan has been approved and signed by the commissioner of public works. 					
Site Plan Ordinance	Yes	No	Zoning Ordinance of the City of White Plains, Section 7, adopted June 1, 1981 and last revised September 13, 2021	Local and County	Common Council, Planning Board and Commissioner of Building
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> In considering and approving "site plans," the approving agency shall take into consideration the purposes of this Ordinance, including the purposes of the applicable zoning district or districts, and, as a condition of approval, may require such modifications of the proposed "site plans" as it deems necessary to comply with the spirit as well as the letter of this Ordinance. The approving agency shall specifically take into account the following: <ul style="list-style-type: none"> Safe, adequate and convenient vehicular and pedestrian traffic circulation both within and without the site. The protection of environmental quality and the preservation and enhancement of property values in the neighboring area. A quality of "building" and overall site design which will enhance and protect the character and property values of the adjacent neighborhood. 					
Stormwater Management Ordinance	Yes	Yes	Chapter 3-6, Stormwater Management and Erosion and Sediment Control	Local	Public Works
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The purpose of this chapter is to establish minimum storm water management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within the city and to address the state's findings of fact in section 3-6-1 hereof. This chapter seeks to meet those purposes by achieving the following objectives: <ul style="list-style-type: none"> Meet the requirements of minimum measures 4 and 5 of New York State's SPDES General Permit for Storm Water Discharges from Municipal Separate Storm Water Sewer Systems (MS4s), Permit No. GP-02-02 or as amended or revised; Require land development and redevelopment activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities GP-02-01 or as amended or revised; Minimize increases in storm water runoff from land development and redevelopment activities in order to reduce flooding, siltation, increases in stream temperature, and streambank erosion and maintain the integrity of stream channels, watercourses or waterways; Minimize increases in pollution caused by storm water runoff from land development and redevelopment activities which would otherwise degrade local water quality; Minimize the total annual volume of storm water runoff which flows from any specific site during and following development and redevelopment to the maximum extent practicable; and Reduce storm water runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through storm water management practices, devices and/or structures, and to ensure that these management practices, devices and/or structures are properly maintained and eliminate threats to public safety. 					
Post-Disaster Recovery/ Reconstruction Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					

Document Type	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
Real Estate Disclosure	Yes	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> In addition to facing potential liability for failing to disclose under the exceptions to “caveat emptor,” a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit. 					
Growth Management	No	No	-	-	-
<i>How does this reduce risk?</i>					
Environmental Protection Ordinance	Yes	Yes	Title III – Environmental Conservation	Local	Commissioner of Building
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The General provisions include the prevention of watershed contamination, standards and regulations to protect and preserve environmentally sensitive sites and features and to safeguard the air resources of the City from pollution. It is in the general interest of the health, safety and welfare of the inhabitants of the City of White Plains to encourage protection of water bodies, watercourses and watersheds, wetlands and aquifer recharge areas, mature trees, habitat for flora and fauna, steep slopes, highly erodible soils, rock outcroppings, and other natural features of the land. Air quality is safeguarded by; Controlling or abating existing air pollution; Preventing new air pollution, under a program that shall be consistent with the declaration of policy stated in this chapter and in accordance with the provisions of this chapter; and Regulating the burning of combustible fuels and certain solid combustible material. Environmental systems that protect development from hazards are identified and mapped. Environmental policies maintain and restore protective ecosystems. Ordinances prohibit development within, or filling of, wetlands, floodways, and floodplains. 					
Flood Damage Prevention Ordinance	Yes	Yes	Chapter 7-10 Flood Damage Prevention	Federal, State, County and Local	Public Works
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> It is the purpose of this local law to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed to: <ul style="list-style-type: none"> Regulate uses which are dangerous to health, safety and property due to water or erosion hazards, or which result in damaging increases in erosion or in flood heights or velocities; Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction; Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of flood waters; Control filling, grading, dredging and other development which may increase erosion or flood damages; Regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands, and; Qualify and maintain for participation in the National Flood Insurance Program. BFE+2 feet is required for all construction in the SFHA (residential and non-residential). 					
Wellhead Protection	No	No	-	-	-
<i>How does this reduce risk?</i>					
Emergency Management Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Climate Change Ordinance	No	No	-	-	-
<i>How does this reduce risk?</i>					
Other	No	-	-	-	-
Planning Documents					
Comprehensive Plan	Yes	No	One White Plains, Update in progress 2021	Local	Planning Board
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The Plan identifies long term development goals. 					
Capital Improvement Plan	Yes	No	Within 2021-22 Adopted Budget	Local	Department of Budget
<i>How does this reduce risk?</i>					

Document Type	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<ul style="list-style-type: none"> Proposed Capital Projects include upgrades to the Dissolved Air Flotation Water Treatment Plant And Chemical System, Street Reconstructions, Replace/Reconstruct Water Lines, Sanitary Sewer Reconstruction, Public Safety Radio Replacement, and Storm Water Drain Reconstruction. 					
Disaster Debris Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Floodplain Management or Watershed Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Stormwater Management Plan	Yes	No	MS4 Annual Report	Local	City of White Plains
<i>How does this reduce risk?</i> <ul style="list-style-type: none"> Highlights of the Stormwater Management Program include the following: <ul style="list-style-type: none"> Completion of research, mapping and identification of existing outfalls for stormwater discharges. Continued reporting and tracking systems for public concerns relative to stormwater issues. We log in approximately 60 calls per year. Sponsorship and participation in various environmental cleanup programs. Continued implementation of ordinances relative to existing sanitary sewer use as well as stormwater management and control. Stringent site review process and inspections relative to stormwater design issues for all projects; both for water quantity and quality. Monitoring of municipal maintenance practices, schedules, and inspection procedures, and disposal methods for waste materials. Final mapping of storm shed boundaries surrounding the City of White Plains has been completed. Continued investigation of illicit discharge detection and elimination. 					
Open Space Plan	Yes	No	Recreation & Parks Master Plan	Local	City of White Plains
<i>How does this reduce risk?</i>					
The plan protects open spaces and other natura area that allow for the containment of flood waters, encourage groundwater recharge and other beneficial natural processes.					
Urban Water Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Habitat Conservation Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Economic Development Plan	No	No	-	-	-
<i>How does this reduce risk?</i> <ul style="list-style-type: none"> Although the City does not have an Economic Development Plan, the City's Comprehensive Plan states that various sectors of the economy must be supported in order to prosper. Businesses require adequate infrastructure, including transportation access, utilities and, increasingly, sophisticated telecommunications systems. They also require a diverse and qualified labor force, the presence of which is closely related to the availability of a variety of housing types at a range of prices. Thus, City policies to encourage economic development must include infrastructure investment and housing development policies which can be provided in a way that is compatible with the continued prosperity of White Plains' businesses, the enhancement of the City's quality of life, and the preservation of its neighborhoods. Investments in infrastructure for the benefit of economic development has the added benefit of reducing risk within the community. In addition, the City's Comprehensive Plan, The City's CDBG, Annual Action Plan will provide funds to support businesses in target areas. 					
Shoreline Management Plan	No	Yes, in jurisdictions with CEHA areas	-	-	-
<i>How does this reduce risk?</i>					
Community Wildfire Protection Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Community Forest Management Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Transportation Plan	Yes	No	Transit District Plan, 2016	Local	Planning Board

Document Type	Jurisdiction has this? (Yes/No)	Required by State? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Individual / Department / Agency Responsible
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> None known. 					
Agriculture Plan	No	Yes			
<i>How does this reduce risk?</i>					
Climate Action/ Resiliency/Sustainability Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Tourism Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Business/ Downtown Development Plan	Yes	No	2010	Local	City of White Plains
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> None known. 					
Other	-	-	-	-	-
Response/Recovery Planning					
Comprehensive Emergency Management Plan	Yes	Yes	Emergency Response Plan 2021	Local	Public Safety
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The plan outlines the City's response to various emergencies and natural disasters. 					
Continuity of Operations Plan	Yes	No	Continuity of Operations Plan	Local	Public Safety
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The City has an Emergency Operations Center that is activated when needed and representatives from various departments work there and coordinate City operations. 					
Strategic Recovery Planning Report	No	No	-	-	-
<i>How does this reduce risk?</i>					
Threat & Hazard Identification & Risk Assessment (THIRA)	No	Yes	-	-	-
<i>How does this reduce risk?</i>					
Post-Disaster Recovery Plan	No	No	-	-	-
<i>How does this reduce risk?</i>					
Public Health Plan	Yes	No	Public Health Emergency Operations Plan, 2021	Local	Mayor
<i>How does this reduce risk?</i>					
<ul style="list-style-type: none"> The Plain details operations management to ensure essential functions of the City. Essential functions are those functions that enable the City to: <ul style="list-style-type: none"> Maintain the safety of employees, residents, businesses and visitors; Provide vital services; Provide services required by law; and Sustain quality operations. 					
Other	No	-	-	-	-

Development and Permitting Capability

The table below summarizes the capabilities of the City of White Plains to oversee and track development.

Table 9.6-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment
Do you issue development permits?	Yes	Tracked by Building Permits

-If yes, what department is responsible? -If no, what is your process for development?		
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	SFHA
Do you have a buildable land inventory? -If yes, describe. -If no, quantitatively describe the level of buildout in the jurisdiction.	No	The majority of City is built out with very little open vacant available land- mostly potential exists for redevelopment

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the City of White Plains and their current responsibilities which contribute to hazard mitigation.

Table 9.6-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Administrative Capability		
Planning Board	Yes	The Planning Board is an administrative body consisting of seven members appointed by the Mayor for a term of seven years. The Planning Board has approval jurisdiction over subdivisions, site plans for mid-sized developments, certain development projects that may affect environmentally sensitive features, and certain special use permits. The Board advises the Common Council regarding site plans and special permits and other planning matters, including zoning amendments. The Board also prepares the City's Comprehensive Plan and amendments thereto for adoption by the Common Council.
Zoning Board of Appeals	Yes	The Zoning Board of Appeals serves as an administrative and quasi-judicial body whose determinations can provide relief from strict or literal interpretation of the Zoning Ordinance that may cause unnecessary hardship on property owners. The Board decides applications for area and use variances and presides over appeals on decisions by an administrative official charged with the enforcement of the Zoning Ordinance. In addition, the Board has original jurisdiction to determine applications for certain special use permits as well as plans for the reconstruction or modification of certain non-conforming buildings and requests to change non-conforming uses.

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Planning Department	Yes	<p>The Department of Planning creates and implements plans, policies, and programs that work together to achieve the community’s vision for the City of White Plains today and in the future.</p> <p>The Department supports and advises the Mayor, the Common Council, and other City Boards, Committees, and Departments on planning related issues.</p> <p>The Department reviews land use applications for zoning amendments, site plan approvals, special permit approvals, subdivision approvals, and disposition of City property.</p> <p>Planning also directs comprehensive, consensus-based planning, zoning, and economic development initiatives that apply both city-wide and to individual neighborhoods.</p> <p>Its support of other City agencies includes technical assistance such as map preparation and demographic and economic research as well as the identification of funding opportunities and the application for grants from government and private sources.</p> <p>The Planning Department also administers the Affordable Housing Program and federally assisted Community Development activities, and provides staff support to the White Plains Urban Renewal Agency.</p>
Mitigation Planning Committee	No	-
Environmental Board/Commission	Yes	<p>The Conservation Board advises on environmental matters; matter related to conservation of natural resources. make recommendations to City agencies on the environmental implications of land use changes for all properties listed on the Open Space Inventory and engages in such other activities as may affect the use of natural resources on the local level.</p>
Open Space Board/Committee	Yes	<p>The Conservation Board advises on environmental matters; matter related to conservation of natural resources. make recommendations to City agencies on the environmental implications of land use changes for all properties listed on the Open Space Inventory and engages in such other activities as may affect the use of natural resources on the local level.</p>
Economic Development Commission/Committee	Yes	<p>The Capital Projects Board reviews departmental submissions of capital project expenditures proposed for the fiscal year; reports of pending capital projects; and recommendations for new capital undertakings for six (6) succeeding fiscal years. The Board submits its recommendations to be included in the City’s budget.</p>
Public Works/Highway Department	Yes	<p>The Department of Public Works (DPW) provides many essential services to our residents, business community, visitors and shoppers and our institutional community in a timely, environmentally conscious and cost-effective manner.</p> <p>DPW operates the following Bureaus:</p> <ul style="list-style-type: none"> • Sanitation • Highway, Forestry, Street Lighting & Parks Maintenance • DPW Code Enforcement • Water and Wastewater • Water Billing • Engineering

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
		<ul style="list-style-type: none"> Administration
Construction/Building/Code Enforcement Department	Yes	<p>The Department of Building is responsible for the enforcement of the ordinances of the City of White Plains and all applicable county and state laws which regulate the use and occupancy of private land and structures. The Department's goal is to secure the public's general health and safety through inspections relating to the following areas:</p> <ul style="list-style-type: none"> Adequate light Means of egress Stability Structural strength Ventilation of occupied structures
Emergency Management/Public Safety Department	Yes	<p>The Department of Public Safety, led by Commissioner David E. Chong, oversees the Police and Fire Bureau as well as Emergency Medical Services and All-Hazards Planning. The City of White Plains has earned a reputation as a community with a high level of police and fire protection services. This reputation is reflected in its low crime rate statistics when compared with cities of similar size as well as the City's excellent fire insurance rating of "1" for New York State communities. The White Plains Public Safety Model offers a command and administrative structure that provides a coordinated emergency response.</p>
Warning Systems / Services (mass notification system, outdoor warning signals)	Yes	E-Notify of Emergency Conditions
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	Department of Public Works
Mutual aid agreements	No	-
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Department of Public Works, Department of Planning
Engineers or professionals trained in building or infrastructure construction practices	Yes	Department of Public Works, Department of Building
Planners or engineers with an understanding of natural hazards	Yes	Department of Public Works
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Department of Public Works
Scientist familiar with natural hazards	Yes	Department of Public Works
Surveyor(s)	Yes	Department of Public Works
Emergency Manager	Yes	Department of Public Safety
Grant writer(s)	Yes	Administration
Resilience Officer	No	-

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Other (this could include stormwater engineer, environmental specialist, etc.)	Yes	Department of Public Works Bureau of Engineering
How do your administrative/technical capabilities contribute to risk reduction in your community?		
The City utilizes various resources within each department along with records and detailed knowledge of the City and the various hazards.		

Fiscal Capability

The table below summarizes financial resources available to the City of White Plains.

Table 9.6-5. Fiscal Capabilities

Financial Resources	Are these accessible or eligible to use for mitigation? (Yes/No) If yes, please describe. If no, can this be used to support in the future?
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes - The Capital Projects Board reviews departmental submissions of capital project expenditures proposed for the fiscal year; reports of pending capital projects; and recommendations for new capital undertakings for six (6) succeeding fiscal years. The Board submits its recommendations to be included in the City’s budget, including hazard mitigation projects.
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes – Sewer and Water
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state funding programs	EFC Clean Water Grant
Open Space Acquisition funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the City of White Plains.

Table 9.6-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? If yes, please describe.
Public information officer or communications office	Yes	Mayor’s office
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	Yes	A copy of the City Hazard Mitigation Plan is on the City website.

Outreach Resources	Available? (Yes/No)	Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events? If yes, please describe.
Social media for hazard mitigation education and outreach	Yes	Facebook, Twitter
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Other programs already in place that could be used to communicate hazard-related information	Yes	Monthly E-Newsletter
Warning systems for hazard events	Yes	White Plains ALERTS is the City’s notification system. It is powered by CodeRED and is a high-speed communication service for emergency notifications as well as important community-related information. Through this system, the City can contact residents and businesses via telephone, email, text, and/or TDD message. The system primarily utilizes land line telephone numbers, however, the City encourages residents to register additional contact information, such as mobile phone numbers and email addresses, to ensure that they continue to receive important City messages even if service to their land line is down.
Natural disaster/safety programs in place for schools	Yes	The School district has approved the White Plains City School District District-Wide Safety & Emergency Management Plan Adopted June 14, 2021.
Other	Yes	Westchester County website has additional resources.

Community Classifications

The table below summarizes classifications for community programs available to the City of White Plains.

Table 9.6-7. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	1	Unknown
NYSDEC Climate Smart Community	No	-	-
Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other	No	-	-

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current capabilities to adjust to, protect from, or withstand a future hazard event, future conditions, and changing risk. The table below summarizes the adaptive capacity for each hazard of concern and the jurisdiction’s rating.

Table 9.6-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak*
Earthquake	Moderate
Extreme Temperature	Moderate
Flood	Moderate
Hazardous Materials	Moderate
Pandemic	Moderate
Severe Storm	Moderate
Severe Winter Storm	Strong
Wildfire	Moderate

*Strong Capacity exists and is in use

Moderate Capacity may exist; but is not used or could use some improvement

Weak Capacity does not exist or could use substantial improvement

9.6.4 National Flood Insurance Program (NFIP) Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the NFIP.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the City of White Plains.

Table 9.6-9. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
City of White Plains	125	190	\$719,358.37	37

Source: FEMA 7-2021

Notes:

RL Repetitive Loss; SRL Severe Repetitive Loss

Flood Vulnerability Summary and NFIP Compliance

The following table provides a summary of the NFIP program in the City of White Plains.

Table 9.6-10. Flood Vulnerability Summary and NFIP Compliance

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> Do you maintain a list of properties that have been damaged by flooding? 	The City maintains a list of flood damaged properties. Floodprone areas include: <ul style="list-style-type: none"> Low lying areas of Cloverdale Avenue Smith Avenue near Longview Avenue Portion of Bloomingdale Road at the exit ramps of I-287 Brockway Place Low lying area of Harlem Avenue near Glenn Street Section of Bronx River Parkway near Main Street bridge Low lying area of Central Westchester Parkway
Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? 	No

NFIP Topic	Comments
<p>Are any RiskMAP projects currently underway in your jurisdiction?</p> <ul style="list-style-type: none"> If so, state what projects are underway. 	No
<p>How do you make Substantial Damage determinations?</p> <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? 	The City does not make determinations.
<p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? 	None
<p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> If not, state why. 	Yes
NFIP Compliance	
<p>What local department is responsible for floodplain management?</p>	Department of Public Works
<p>Are any certified floodplain managers on staff in your jurisdiction?</p>	No
<p>Do you have access to resources to determine possible future flooding conditions from climate change?</p>	No
<p>Does your floodplain management staff need any assistance or training to support its floodplain management program?</p> <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	No
<p>Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)</p>	Permit review, Stormwater management practices, education, inspections. Adopted and enforce floodplain management ordinance in our Municipal Code
<p>How do you determine if proposed development on an existing structure would qualify as a substantial improvement?</p>	Determined by the Building Dept
<p>What are the barriers to running an effective NFIP program in the community, if any?</p>	None
<p>Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?</p> <ul style="list-style-type: none"> If so, state the violations. 	No
<p>When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?</p>	The City had a Community Assistance Visit on August 13, 2017 and a Community Assistance Contact on January 22, 2013.
<p>What is the local law number or municipal code of your flood damage prevention ordinance?</p> <ul style="list-style-type: none"> What is the date that your flood damage prevention ordinance was last amended? 	Title VII Chapter 7-10 of the White Plains Municipal Code
<p>Does your floodplain management program meet or exceed minimum requirements?</p> <ul style="list-style-type: none"> If exceeds, in what ways? 	Yes
<p>Are there other local ordinances, plans or programs (e.g. site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?</p>	Site Plan review by Public Works requires developers to meet our floodplain management requirements.
<p>Does your jurisdiction participate in CRS?</p> <ul style="list-style-type: none"> If yes, is your jurisdiction interested in improving its CRS Classification? 	No, but the City is interested in joining the program.

NFIP Topic	Comments
<ul style="list-style-type: none"> If no, is your jurisdiction interested in joining the CRS program? 	

9.6.5 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes and Procedures

The City of White Plains has identified the following routes and procedures to evacuate residents prior to and during an event.

- The City can notify residents to evacuate through reverse phone calls, social media and Code Red notifications. The City has identified evacuation routes as outlined in our Dam Emergency Action Plan. Evacuations for other hazards are coordinated through the County for guidance, evacuation decisions and routes.

Sheltering

The City of White Plains has identified the following designated emergency shelters within the City. The Shelters located in the City are operated by Westchester County. The City does run Stay Cool Centers as needed based on weather conditions.

Table 9.6-11. Designated Emergency Shelters

Site Name	Address	Capacity	Accommodates Pets?	ADA Compliant?	Backup Power?	Types of Medical Services Provided	Other Services Provided
Post Road School	175 West Post Road	150	TBD	Yes	Yes	TBD	TBD
White Plains High School	550 North Street	500	TBD	Yes	No	TBD	TBD

Temporary Housing

Each jurisdiction must identify sites for the placement of temporary housing units to house residents displaced by a disaster. The City of White Plains has identified sites suitable for placing temporary housing units, and has provided a list of local hotels and motels that will accept residents for temporary housing following a disaster.

Table 9.6-12. Temporary Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic, etc.)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
White Plains High School	550 North Street	Water, electric, sewer	39 acres	Parking lots and fields	Temporary housing units
White Plains Middle School (Highlands)	128 Grandview Avenue	Water, electric, sewer	11 acres	Parking lots and fields	Temporary housing units
White Plains Middle School	350 Main Street	Water, electric, sewer	8 acres	Parking lots and fields	Temporary housing units
Cambria Hotel	250 Main Street	Water, electric, sewer	130 Rooms	Hotel	None
Sonesta Hotel	66 Hale Avenue	Water, electric, sewer	402 Rooms	Hotel	None
Residence Inn	5 Barker Avenue	Water, electric, sewer	135 Rooms	Hotel	None

Permanent Housing

Structures located in the regulatory floodplain may need to be relocated due to high flood risk or new properties must be built once severely damaged properties are demolished. Jurisdictions must identify suitable sites currently owned by the jurisdiction and potential sites under private ownership that meet applicable local zoning requirements and floodplain laws. The City of White Plains has identified the following areas suitable for relocating homes outside of the floodplain.

Table 9.6-13. Permanent Housing Locations

Site Name	Site Address	Capacity (number of sites)	Type	Infrastructure / Utilities Available (water, electric, septic, etc.)	Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code
None identified. The City will work with Westchester County to identify locations for temporary and permanent housing within the City or in neighboring municipalities. Locations will be cited outside the SFHA (action 2021-City of White Plains - 016).					

9.6.6 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.6-14 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development.

Table 9.6-14. Recent and Expected Future Development

Type of Development	2014	2015	2016	2017	2018	2019	2020

Number of Building Permits for New Construction Issued Since the previous HMP* (total/within regulatory floodplain)														
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	8	0	7	0	5	0	11	0	8	0	5	0	5	0
Multi-Family	3	0	0	0	1	0	0	0	2	0	5	0	3	0
Other (commercial, mixed-use, etc.)	1	0	1	0	2	0	1	0	1	0	1	0	0	0
Total Permits Issued	12	0	8	0	8	0	12	0	11	0	11	0	8	0

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
Recent Major Development and Infrastructure from 2015 to Present					
1 Dekalb	Mixed Use	77 units – 16 affordable – 10,139 sq ft park	1 Dekalb Avenue	No	Recently Completed
Norden Lofts	Residential	65 units	121 Westmorland Avenue	No	Recently Completed
La Gianna	Residential	56 units – 3 affordable	10 Dekalb Avenue	No	Recently Completed
White Plains Institution of Rehabilitation and Health	Commercial	88,605 sq ft	120 Church Street	No	Recently Completed
The Continuum P I	Residential	288 units – 57affordable	55 Bank Street – Phase 1	No	Recently Completed
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years					
250 Mamaroneck	Mixed Use	7,702 units – 720 affordable – 1,226,903 commercial	250 Mamaroneck Avenue	No	Under Construction
6-8-10 Chester	Residential	74 units – 9 affordable	6-10 Chester Avenue	No	Approved
51 South Broadway	Residential	134 Units – 16 affordable	51 S. Broadway	No	Proposed
The Waterstone	Mixed Use	132 units – 13,000 sq ft commercial	120 Bloomingdale Avenue	No	Under Construction
70 Westchester	Mixed Use	175 Units – 10 affordable and 15,100 sq ft commercial	70 Westchester Avenue	No	Approved
Hamilton Green	Mixed Use	860 units – 86 Affordable – 112,400 sq ft commercial	200 Hamilton Avenue	No	Under Construction
Gateway II	Mixed Use	500 units – 15 affordable – 7,400 sq ft park – 19,000 sq ft commercial	85 North Lexington Avenue	No	Approved
1 Water	Mixed Use	301 units – 24 affordable – 8,800 sq ft park	1 Water Street	No	Approved

		- 1,212 sq ft commercial			
The Continuum P II	Residential	309 units – 62 affordable	55 Bank Street – Phase 2	No	Under Construction
The Duet	Residential	127 units – 13 affordable	97-114 Hale Avenue	No	Under Construction
The Boulevard	Mixed Use	12 units – 0 affordable – 2200,000 sq ft commercial	29-103 West Post Road	No	Approved
The Collection	Mixed Use	276 units – 17 affordable – 25, 218 sq ft commercial	80-106 Westchester Avenue	No	Approved
65 Lake Street	Mixed use	56 units – 56 affordable – 4,800 sq ft commercial	65 Lake Street	No	Approved
440 Hamilton	Mixed Use	468 units – 29 affordable – 3,000 sq ft commercial	440 Hamilton Avenue	No	Under Construction
Westmoreland Lofts	Mixed Use	62 Units – 4,300 sq ft	146 Westmoreland Avenue	No	Approved
20 Haarlem	Residential	296 units – 15,000 sq ft park	20 Haarlem Avenue	Yes, flood prone	Approved
The Mitchell	Mixed Use	434 units – 27 affordable - 7,855 sq ft commercial – 8,000 sq ft park	131 Mamaroneck Avenue	No	Under Construction
60 South Broadway	Mixed use	814 units – 39 affordable – 28,014 sq ft commercial	60 South Broadway	No	Approved

SFHA Special Flood Hazard Area (1% flood event)
* Only location-specific hazard zones or vulnerabilities identified.

9.6.7 Jurisdictional Risk Assessment

The hazard profiles in Section 5 (Risk Assessment) provide detailed information regarding each plan participant’s vulnerability to the identified hazards. Refer to Section 5.2 (Methodology and Tools) and Section 5.4 (Hazard Ranking) for a detailed summary for the City of White Plains’ risk assessment results and data used to determine the hazard ranking discussed later in this section.

Hazard area extent and location maps were generated to illustrate the probable areas impacted within the jurisdiction. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps have been generated only for those hazards that can be clearly identified using mapping techniques and technologies and for which the City of White Plains has significant exposure. The maps also show the location of potential new development, where available. These maps are illustrated below.

Figure 9.6-1. City of White Plains Hazard Area Extent and Location Map 1

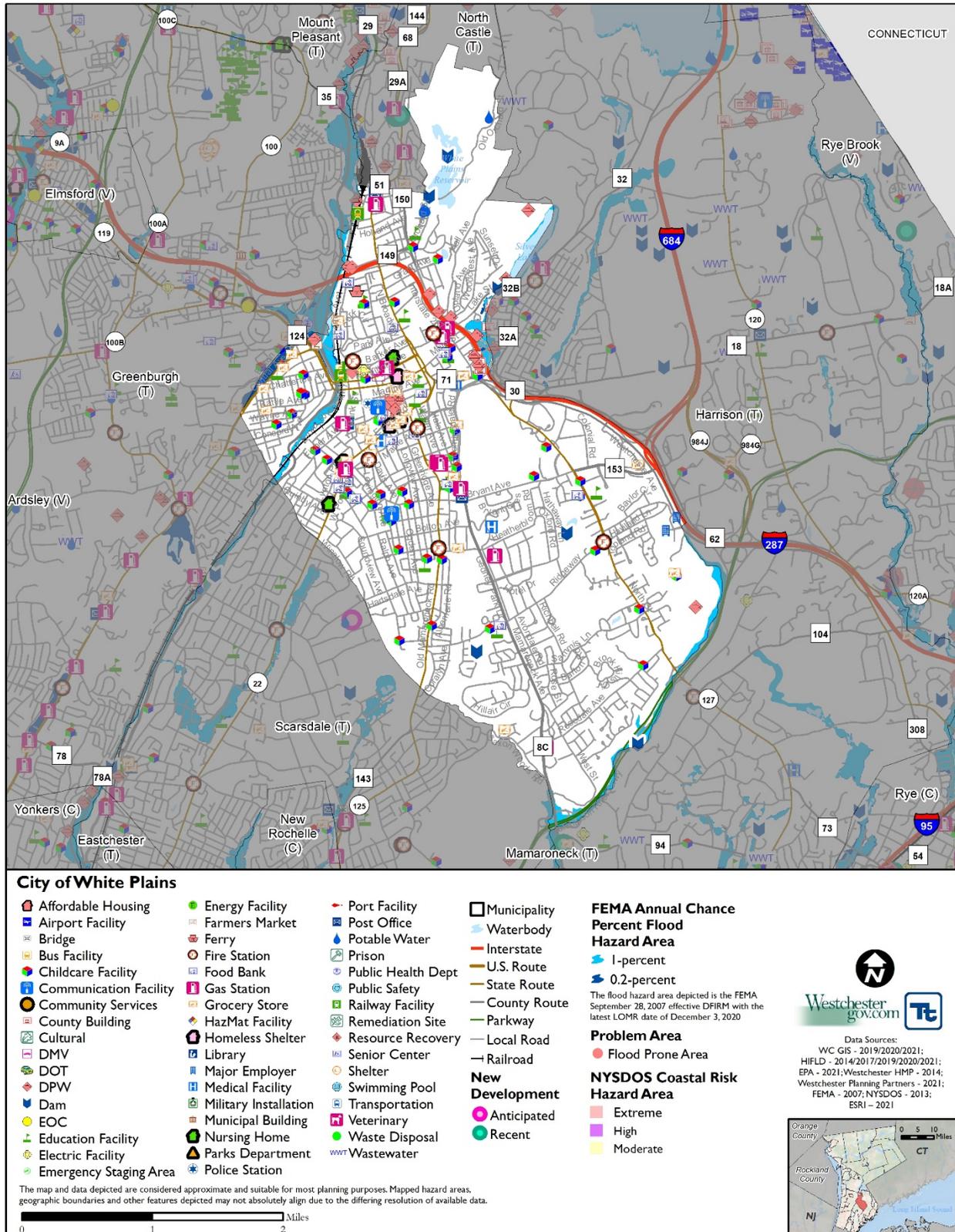


Figure 9.6-2. City of White Plains Hazard Area Extent and Location Map 2

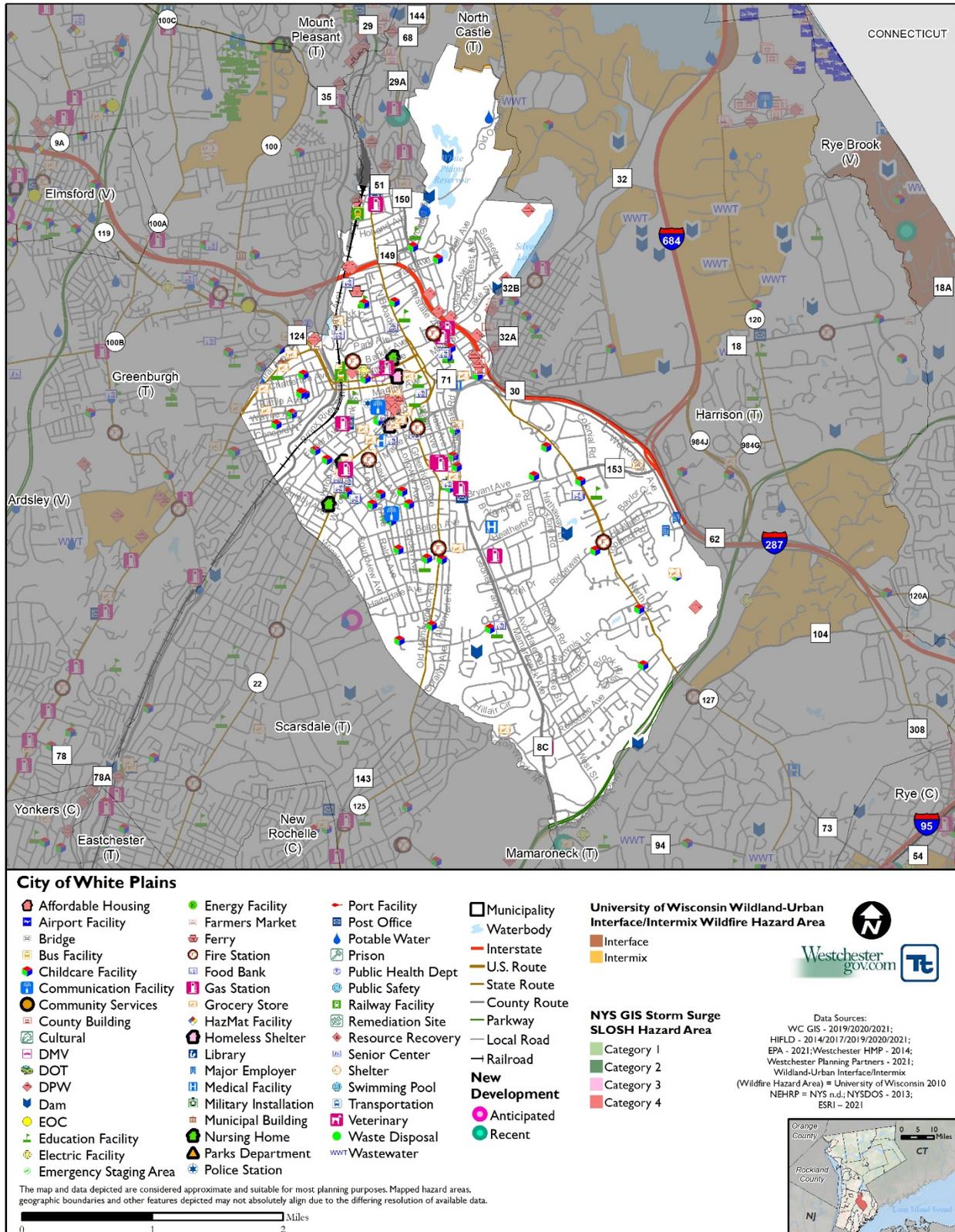


Figure 9.6-3. City of White Plains Hazard Area Extent and Location Map 3

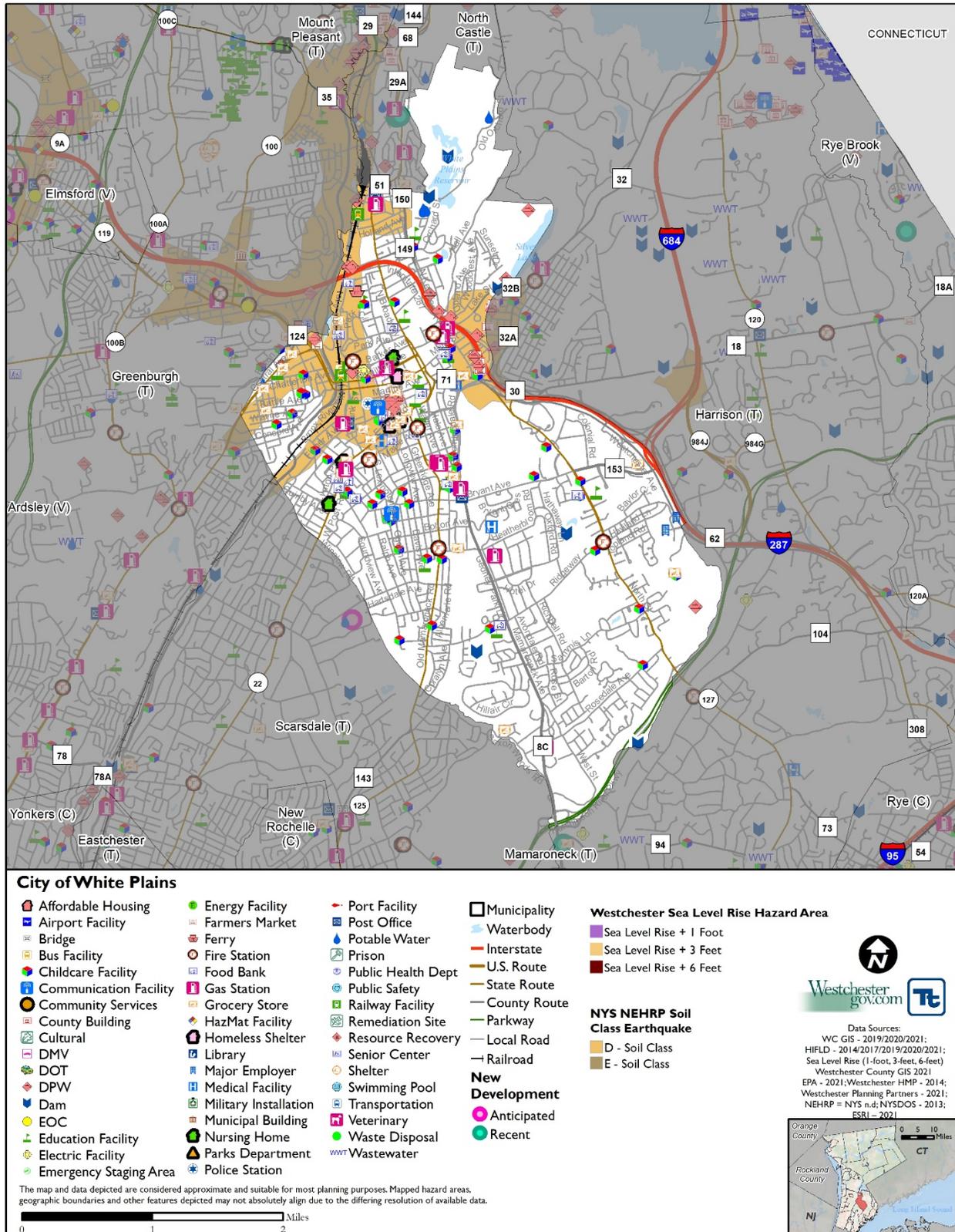
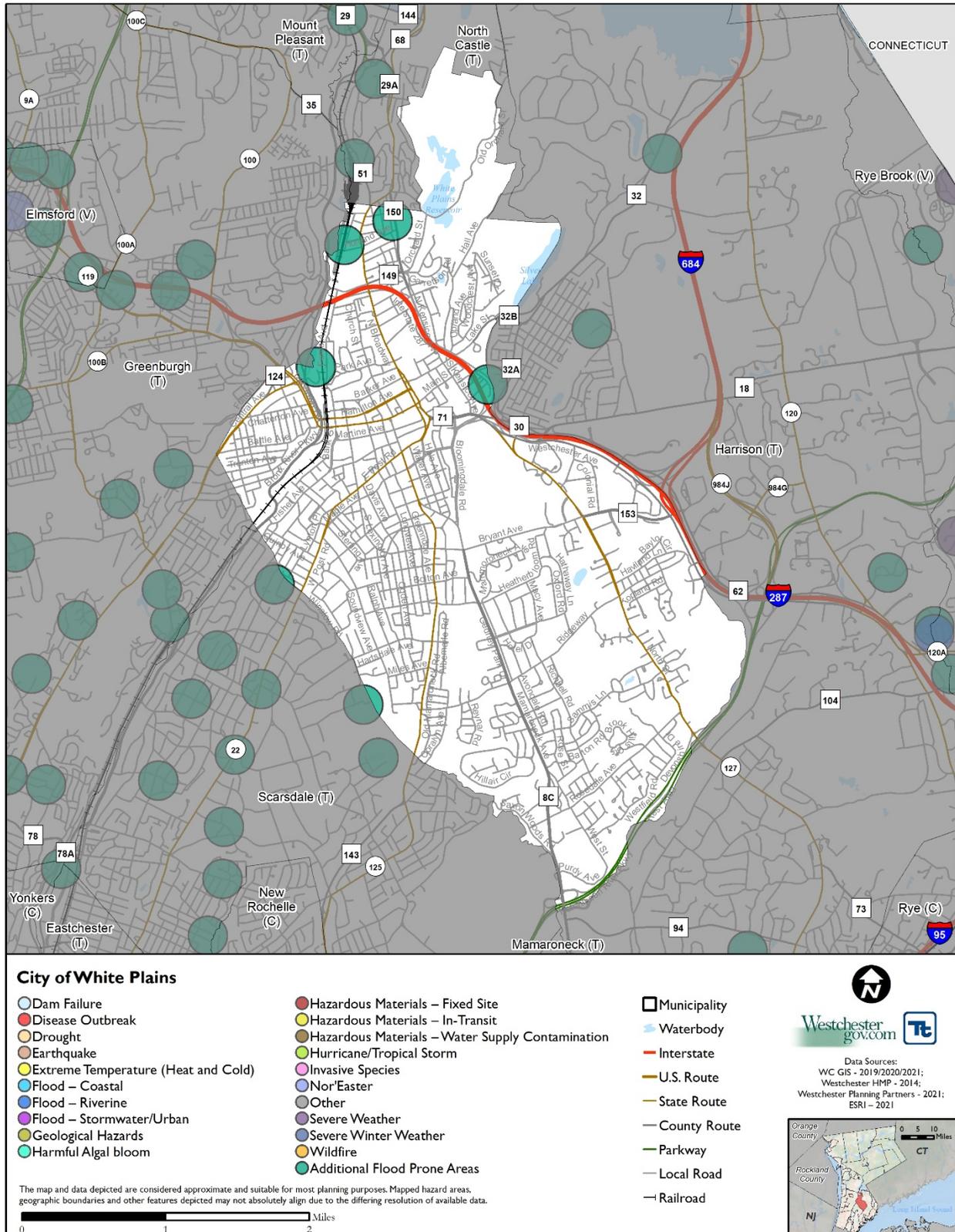


Figure 9.6-4. City of White Plains Hazard Area Extent and Location Map 4



Hazard Event History

Westchester County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities.

The City of White Plains’ history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Westchester County. Table 9.6-15 provides details regarding municipal-specific loss and damages the City experienced during hazard events since the last hazard mitigation plan update. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.6-15. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
February 13, 2017	High Wind	No	Low pressure passed to the east of Westchester County and rapidly deepened, resulting in strong winds with gusts exceeding 70 mph.	Although the County was impacted, the City did not report any impacts.
March 2, 2018	High Wind	No	A deep area of low pressure passed off the coast resulting in strong winds with gusts exceeding 70 mph.	Although the County was impacted, the City did not report any impacts.
April 13, 2020	High Wind	No	Deep low pressure passed to the west of the area resulting in high winds with gusts near 70 mph.	Although the County was impacted, the City did not report any impacts.
August 4, 2020	Tropical Storm (DR-4567)	Yes	Tropical Storm Isaias passed over the region, resulting in high winds with gusts between 60-80 mph.	The City incurred \$801,000 in damages.
January 20, 2020 – Present	Covid-19 Pandemic (EM-3434) (DR-4480)	Yes	Between March 1, 2020 and June 6, 2021, Westchester County reported 129,488 confirmed cases of COVID-19, and 2,284 total fatalities.	The City incurred \$384,929 in damages.
September 1, 2021	Hurricane Ida (DR-4615-NY)	Yes	Remnants of Hurricane Ida brought high winds, tree damage, flooding and heavy rains.	The City incurred \$881,880 in damages.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

Hazard Ranking and Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the City of White Plains’ risk assessment results and data used to determine the hazard ranking.

Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Westchester County as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the City of White Plains. The City of White Plains has reviewed the county hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the City indicated the following:

- The City agreed with the calculated hazard rankings.

Table 9.6-16. Hazard Ranking Input

Disease Outbreak	Earthquake	Extreme Temperature	Flood	Severe Storm	Severe Winter Storm	Wildfire	CBRN
Low	Low	Low	Medium	High	Medium	Low	Low

Note: The scale is based on the hazard rankings established in Section 5.3 and modified as appropriate during review by the jurisdiction

Critical Facilities

New York State Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent annual chance flood event, or worst damage scenario. For those that do not meet these criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.6-17. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event		Addressed by Proposed Action
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	
Westchester Indoor Farmers Market	Farmers Market	N	Y	0.0	0.0	-
White Plains City	Potable Water Treatment Facility	N	Y	0.0	0.0	-
Silver Lake Dam owned by the Village of Harrison, NY.	Dam	Y	Y	0.0	0.0	2021-City of White Plains-013
County Center – owned by Westchester County	DPW	N	Y	0.0	0.0	-

Source: Westchester HMP 2021; FEMA 2007

Identified Issues

After review of the City of White Plains' hazard event history, hazard rankings, jurisdiction specific vulnerabilities, hazard area extent and location, and current capabilities, the City of White Plains has identified the following vulnerabilities within their community:

- The City does not participate in the CRS program and therefore does not benefit from the flood protection and resiliency elements of the program or the reduced Flood Insurance rates for its residents.
- Many of the City's facilities are old and in danger of failing during a hazard event, limiting the City and the use of its facilities in responding to the hazard.
- The City lacks warming and cooling centers with backup power at many of its designated shelters. Extreme temperature events, particularly cold weather events, warrant the establishment of appropriate facilities to fill this need.
- The City's Emergency Response Plan is due for an update, as staying current with the changing environment is critical for continuity of operations during a hazard event.
- Critical facilities require backup power to maintain continuity of operations. There are three fire stations in the City that lack permanent backup power and currently utilize portable generators:
 - White Plains Fire Station # 1 (93 Prescott Avenue)
 - White Plains Fire Station #3 (2 Terrace Avenue)
 - White Plains Fire Station #4 (234 South Lexington Avenue)
- The City's Hazard Mitigation Plan lacks integration with other plans and reports.
- The City lacks the use of natural systems to control stormwater drainage and mitigate flooding.
- The City lacks outreach to the public to educate them on the location of floodplains and areas of frequent flooding.
- Most utility providers have not hardened systems to protect from hazards that cause the loss of vital services to the end users.
- The City does not have a renewable, sustainable, energy source to power its building during a power outage and relies on permanent or portable generators.
- Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The City has 37 repetitive loss properties, but other properties may be impacted by flooding as well. Floodprone areas include:
 - Low lying areas of Cloverdale Avenue
 - Smith Avenue near Longview Avenue
 - Portion of Bloomingdale Road at the exit ramps of I-287
 - Brockway Place
 - Low lying area of Haarlem Avenue near Glenn Street
 - Section of Bronx River Parkway near Main Street bridge
 - Low lying area of Central Westchester Parkway
- If the Kensico Dam were to experience a failure, the City of White Plains would be affected by the ensuing flood. The dam is under the jurisdiction of NYC DEP.
- If the Silver Lake Dam were to experience a failure, the City of White Plains would be affected by the ensuing flood. The dam is under the jurisdiction of Town of Harrison.
- Large trees can fall or have limbs damage overhead wires.
- When catch basins become clogged with debris, they may pose a flooding threat.
- The City lacks identified locations for permanent housing.
- Critical facilities require backup power to maintain continuity of operations. There are emergency service facilities in the City that lack permanent backup power and utilize portable generators such as:
 - White Plains Municipal Building – City Hall (255 Main St)
 - The Hall Avenue Booster Pump. A standby generator is now being installed.
 - White Plains High School is a critical facility and lacks backup power. It is also utilized as an emergency shelter and for temporary housing.
- There are low lying areas in the Cloverdale Avenue section of the City where properties have experienced flood losses.

Specific areas of concern based on resident response to the Westchester County Hazard Mitigation Citizen survey include:

- Flooding at Bronx River and area near the Central Westchester Parkway (vicinity of Cloverdale Avenue).
- All of Highlands is prone to flooding and many old trees to bring down power lines.
- Urban flooding. Observed the storm drains are clogged with debris and it is always a concern when severe storms or hurricane is coming.
- Bronx River under Main Street, areas flood along Bronx River, Mamaroneck River and West Branch of Mamaroneck Avenue, Bloomindale Road all in White Plains. Power outages in White Plains southern and northern areas with trees coming down.
- Flooding Longview Avenue after a very heavy downpour.

9.6.8 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2015 HMP. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.

Table 9.6-18. Status of Previous Mitigation Actions

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
COWP-1	Vulnerability Assessment and Facilities Inventory	Conduct inventory and assessment of public facilities and populations that may be vulnerable to natural hazards.	DPW, PS, PL	Vulnerability assessment	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-2	Capital Plan and Budget	Utilize City's capital budgeting process to include 3-5 year capital programming in order to identify priorities for mitigation measures and outside funding for natural hazards that impact City facilities, equipment, infrastructure and at-risk populations.	DPW	Budget for future improvements	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-3	Flood Mitigation	Identify and pursue funding sources for flood abatement and drainage improvement projects involving public facilities, equipment, and infrastructure	DPW, BLDG, R&P	Identify funding sources	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3 This issue will be addressed under the Harden City Facilities and Infrastructure Mitigation Initiative .

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
COWP-4	Flood Mitigation	Identify and pursue funding sources and other incentives to encourage and monitor flood resistant construction measures and practices for new construction and renovations in floodplains and repetitive flood loss areas.	DPW, PL	Identify funding sources	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3. This issue will be addressed under the Repetitive Loss Mitigation Initiative
COWP-5	Flood Resiliency through CRS	Work to become a CRS (Community Rating System) participant of at least Level 9, by applying to the CRS program and submitting the required information. (by 2024)	DPW, PS	Improve our CRS Level	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-6	Harden City Facilities and Infrastructure	. Integrate hazard resistant mitigation measures into the repair and rehabilitation of City facilities and infrastructure.	DPW	Improve facility resistance to hazards	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-7	Assess Shelters and Backup Power Needs	Assess the capability to shelter residents during hazard events	DPW, PS	Assess shelter and backup power	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		including the availability of adequate back-up power for cooling and heating at critical facilities.					
COWP-8	Building Code Enforcement, Earthquake Hazard	.For new or remodeled buildings enforce strict compliance with NYS Building Code earthquake construction recommendations	BLDG, DPW	Verify code compliance	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-9	Stormwater Maintenance Program	. Maintain and enhance cleaning of stormwater collection and conveyance system especially in flood prone areas.	DPW	Enhanced maintenance in flood prone areas	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-10	Regional Flood Level Monitoring	. Partner with neighboring communities to encourage Westchester County to restore and add flood gauges on Bronx River and Mamaroneck River	DPW, WC and Local Municipalities		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority
COWP-11	Update ERP	. Update the emergency response plan.	PS and DPW	Upgrade current ERP as needed	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-12	Outreach and Warning Systems	Enhance present weather	DPW, PS and Mayor's Office		Discontinue	Cost: Level of Protection:	1. Discontinue 2. 3. No longer a priority

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		forecasting and warning systems.				Damages Avoided; Evidence of Success:	
COWP-13	Backup Power at Fire Stations	Continue to upgrade and acquire new stand- by generators for emergency services.	DPW, PS	Continue to upgrade to standby generators at all fire stations	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-14	Disaster Preparedness	Continue to support and provide for training opportunities for emergency service personnel	PS, DPW	Continue preparedness training	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-15	Community Outreach and Education	Prepare and provide informational materials on natural hazard preparation for the City's website, Cable TV access channel, schools, community centers, day care centers, senior centers and other community venues	DPW, Cable TV and White Plains School District		No Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority
COWP-16	Hazard Mitigation Integration	Integrate hazard mitigation measures into the next Comprehensive Plan Update.	DPW, PL	Include hazard mitigation Comprehensive Plan Update	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-17	Enhance Natural Systems	Encourage low-impact design in order	DPW, PL	Reduce runoff by encouraging low impact designs	Ongoing Capability	Cost: Level of Protection:	1. Discontinue 2. 3. Ongoing Capability

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		to reduce surface water flows.				Damages Avoided; Evidence of Success:	
COWP-18	Floodplain Management	Make available a GIS link on the City website identifying repetitive loss areas to supplement the existing info on floodplains.	DPW	Repetitive loss identified on GIS	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-19	Partner with Utility Providers on Hazard Mitigation Efforts	Partner with utility providers to incorporate hazard mitigation measures into their maintenance operations and capital plans. (Have begun this with Con Ed and Verizon.)	DPW, Con Edison, Verizon and Cablevision	Incorporate hazard mitigate measures into utility providers maintenance	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-20	Public Education and Outreach	Develop a public information outreach program for residents, businesses, community groups and organizations including area colleges addressing	DPW	Public Outreach	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		concerns and risks of natural hazards as well as preparation and preventative measures.					
COWP-21	Dam Safety	Rehabilitate and upgrade the emergency spillways for the dams at the White Plains Reservoirs.	DPW		Completed	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Complete
COWP-22	Clean, Stable Power Supply	Community solar panel systems	DPW	Install community solar panels on Municipal properties	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-23	Stormwater Improvements	Improvements to the Haarlem Avenue stormwater system.	DPW		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority
COWP-24	Stormwater Improvements	Improvements to the Cloverdale Avenue stormwater system.	DPW	Investigate possible solutions in flood prone area	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-25	Stormwater Improvements	Miscellaneous stormwater infrastructure improvements in localized problem	DPW	Improvements to stormwater system in problem areas	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3. This issue will be addressed under the Enhanced Natural Systems Mitigation Initiative and other localized Flood Mitigation Initiatives.

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		areas.					
COWP-26	Watershed Maintenance and Restoration	In partnership with the BRAB (Bronx River Basin-Wide Watershed Advisory Board) pursue desilting in the Bronx River to restore volumetric carrying capacity of the river channel and install turf reinforcement systems to protect the river banks from further erosion.	DPW		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority
COWP-27	Increase pervious Surfaces and Groundwater Recharge	Use Flexi-Pave (100% pervious surface manufactured from recycled tires) and porous pavement on various municipal and private projects to reduce runoff.	DPW		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority
COWP-28	Flood Protection Through Increased Regulation	Pursue the inclusion of a parapet inspections requirement into the Building Code	BLDG		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
COWP-29	Flood Protect Fuel Tanks	Replace underground fuel tanks with above ground Con-Vault fuel tanks.	DPW		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority
COWP-30	Upgrade Fuel Leak Detection	30. Upgrade fuel system software to allow quicker detection of leaks.	DPW, IS		Complete	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Project complete
COWP-31	Upgrade Water Leak Detection	. Implement automated water meter reading which incorporates data loggers that will automatically detect leaks on the water mains.	DPW, IS		Complete	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Complete
COWP-32	Potable Water supply Protection	Install a water transmission main to interconnect the City's two water pump stations to provide redundancy to the potable water supply.	DPW		In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Study shows it is not necessary
COWP-33	Flood Development Permit	Apply the City's Flood Development Permit for change of use to structures within the 100 yr. FEMA floodplain.	DPW, BLDG	Flood development permit	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability
COWP-34	MS4 Permit Enforcement	Require any development that increases the site's impervious area to	DPW, BLDG	Apply for the MS4 permit for stormwater work	Ongoing Capability	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Ongoing Capability

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing Capability, No Progress, Complete)	Evaluation of Success (if complete)	Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
		apply for a DPW MS4 permit and mitigate the runoff increase and provide water quality.					
COWP-35	Enhanced GPS Communications	Install GPS tracking and enhanced communications in all municipal vehicles to aid in the dispatch and work force allocation.	DPW	GPS tracking for vehicles	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-36	GIS Development and Training	Develop remote GIS access and equip and train field personnel.	DPW, IS	Remote GIS access for field personnel	Complete	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. Complete
COWP-37	Tree Management Program	Implement a tree program that will inventory and log the location and condition of the approximate 13,500 City owned trees.	DPW, IS	Tree inventory and log	In Progress	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Include in 2021 HMP 2. 3.
COWP-38	Upgrade Wind-load Requirements	Incorporate a higher wind speed design (100 mph sustained winds) into municipal and private improvements.	DPW, BLDG		Discontinue	Cost: Level of Protection: Damages Avoided; Evidence of Success:	1. Discontinue 2. 3. No longer a priority

Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The City of White Plains has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2013 HMP:

- Pressure Basin Water Tank Replacement
- 24” Water Transmission Main Replacement
- Central Avenue Pump Station Fluoride System Upgrade
- Ridgeway Culvert Replacement
- Salt Storage Building

Proposed Hazard Mitigation Initiatives for the HMP Update

The City of White Plains participated in a mitigation action workshop in October 2021 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 ‘Selecting Appropriate Mitigation Measures for Floodprone Structures’ (March 2007) and FEMA ‘Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards’ (January 2013).

The table below indicates the range of proposed mitigation action categories.

Table 9.6-19. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Disease Outbreak	X				X		X			X
Earthquake	X	X			X	X	X			X
Extreme Temperature	X	X			X		X			X
Flood	X	X	X	X	X	X	X			X
Severe Storm	X	X	X	X	X	X	X			X
Severe Winter Storm	X	X			X	X	X			X
Wildfire	X				X		X			X
CBRN	X				X		X			X

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories

Table 9.6-20 summarizes the comprehensive-range of specific mitigation initiatives the City of White Plains would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.6-21 provides a summary of the prioritization of all proposed mitigation initiatives for the HMP update.

Table 9.6-20. Proposed Hazard Mitigation Initiatives

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2021-City of White Plains -001	Flood Resiliency through CRS	1, 3	Flood, Severe Storm	<p>Problem: The City does not participate in the CRS program and therefore does not benefit from the flood protection and resiliency elements of the program or the reduced Flood Insurance rates for its residents.</p> <p>Solution: Work to become a CRS (Community Rating System) participant of at least Level 9, by applying to the CRS program and submitting the required information.</p>	No	No	Within 5 years	DPW, PS	Low	Flood protection and reduced insurance costs	Municipal Budget	High	LRP	PR, PP, PI
2021-City of White Plains -002	Harden City Facilities and Infrastructure	1, 2	Flood, Severe Storm, Severe Winter Storm, Earthquake	<p>Problem: Many of the City's facilities are old and in danger of failing during a hazard event, limiting the City and the use of its facilities in responding to the hazard.</p> <p>Solution: The City is pursuing funding while in the process of integrating hazard resistant mitigation measures into the repair and rehabilitation of City facilities and infrastructure.</p>	Yes	No	Within 5 years	DPW and NIA	High	Multi-hazard protection and resiliency of City facilities needed to protect its citizens	Municipal Budget	High	SIP	PP
2021-City of White Plains -003	Assess Shelters and Backup Power Needs	1	Flood, Severe Storm, Winter Storm, Extreme Temperature	<p>Problem: The City lacks warming and cooling centers with backup power at many of its designated shelters. Extreme temperature events, particularly cold weather events, warrant the establishment of appropriate facilities to fill this need.</p> <p>Solution: The City will review available facilities that could fit the needs as shelter with warming and</p>	Yes	No	1 year	DPW, PS	Medium	Provide life saving measures during and after a hazard event	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance	High	SIP	ES

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				cooling centers. Factors to consider will include capacity, access, and need for backup power. Facilities identified as appropriate locations for warming and cooling centers will have the necessary upgrades made (HVAC, backup power generation) as necessary. Outreach will be conducted on the availability of these locations for sheltering during extreme temperature events.							e Grants (EMPG) Program, Municipal Budget			
2021-City of White Plains -004	Update ERP	1, 2	All Hazards	<p>Problem: The City’s Emergency Response Plan is due for an update, as staying current with the changing environment is critical for continuity of operations during a hazard event.</p> <p>Solution: The Office of Emergency Management will update The ERP to reflect present capabilities and environment. The ERP will integrate information developed during this HMP update.</p>	No	No	1 year	PS, DPW	Low	An updated ERP will enhance emergency operations.	Municipal Budget	High	LRP	ES
2021-City of White Plains -005	Backup Power at Fire Stations and other Critical Facilities	1, 2	Flood, Severe Storm, Severe Winter Storm, Earthquake, Extreme Temperatures	<p>Problem: Critical facilities require backup power to maintain continuity of operations. There are three fire stations in the City that lack permanent backup power and currently utilize portable generators:</p> <ul style="list-style-type: none"> ○ White Plains Fire Station # 1 (93 Prescott Avenue) ○ White Plains Fire Station #3 (2 Terrace Avenue) ○ White Plains Fire Station #4 (234 South Lexington Avenue) 	Yes	No	Within 5 years	DPW, PS	High	By continuing to upgrade to standby generators at all fire stations and emergency service locations Adequate protections can be afforded to the public	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program,	High	SIP	ES

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				<ul style="list-style-type: none"> ○ White Plains Municipal Building – City Hall (255 Main St) ○ White Plains High School is a critical facility and lacks backup power. It is also utilized as an emergency shelter and for temporary housing. ○ <p>Solution: The Engineer will research what size generator is needed to power each facility. The City will then purchase and install the selected generator and necessary electrical components to supply backup power to each facility. Public Works will be responsible for maintenance and testing of each generator following installation.</p>							Municipal Budget			
2021 City of White Plains -006	Hazard Mitigation Integration	3, 4	All Hazards	<p>Problem: The City’s Hazard Mitigation Plan lacks integration with other plans and reports.</p> <p>Solution: The City will integrate hazard mitigation measures in the next Comprehensive Plan Update.</p>	No	No	3 years	DPW, DL	Low	By incorporation Hazard Mitigation in the City’s Comprehensive Plan it will be included in future land use planning and recommendations	Municipal Budget	High	LP R	PI, PR
2021 City of White Plains -007s	Enhance Natural Systems	1, 2, 4	Flood, Severe Storm	<p>Problem: The City lacks the use of natural systems to control stormwater drainage and mitigate flooding.</p>	No	Yes	1 year	DPW, PL	Medium	The use of natural systems to control stormwater runoff will reduce	Capital Budget	High	NS P	NR

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				Solution: The City will encourage low- impact design in order to reduce surface water flows and take advantage of the benefits offers by natural systems.						construction and maintenance costs and localized flooding.				
2021 City of White Plains -008	Floodplain Management	1, 2	Flood, Severe Storm	Problem: The City lacks outreach to the public to educate them on the location of floodplains and areas of frequent flooding. Solution: The City will create a GIS link on its website identifying repetitive loss areas to supplement the existing information on floodplains.	No	No	2 years	DPW	Low	Educating the public of the location of frequently flooded areas within the City and the risks associated will allow for informed location decisions	Municipal Budget	High	EAP	PI
2021 City of White Plains -009	Partner with Utility Providers on Hazard Mitigation Efforts	1, 2	Flood, Severe Storm, Severe Winter Storm, Earthquake	Problem: Most utility providers have not hardened systems to protect from hazards that cause the loss of vital services to the end users. Solution: The City will partner with utility providers to incorporate hazard mitigation measures into their maintenance operations and capital plans. The City has begun this with Con Ed and Verizon.	Yes	No	2 years	DPW, Con Edison, Verizon and Cablevision	Low	By incorporating hazard mitigate measures into utility providers maintenance, services to the public can remain operational	Municipal Budget	High	LP R	PR
2021 City of White Plains -010	Clean, Stable Power Supply	1, 2	Flood, Severe Storm, Severe Winter Storm	Problem: The City does not have a renewable, sustainable, energy source to power its building during a power outage and relies on permanent or portable generators. Solution: The City will install community solar panels on Municipal properties and add power storage capabilities.	Yes	No	Within 5 years	DPW	High	The City will be able to power its building, many of which are critical facilities with renewable energy source during power outages.	City budget	High	SIP	PP

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
2021-City of White Plains -011	Repetitive Loss Mitigation	1, 2	Flood, Severe Storm	<p>Problem: Frequent flooding events have resulted in damages to residential properties. These properties have been repetitively flooded as documented by paid NFIP claims. The City has 37 repetitive loss properties, but other properties may be impacted by flooding as well. Floodprone areas include:</p> <ul style="list-style-type: none"> • Low lying areas of Cloverdale Avenue • Smith Avenue near Longview Avenue • Portion of Bloomingdale Road at the exit ramps of I-287 • Brockway Place • Low lying area of Haarlem Avenue near Glenn Street • Section of Bronx River Parkway near Main Street bridge • Low lying area of Central Westchester Parkway <p>Solution: Conduct outreach to 50 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to</p>	No	None	3 years	NFIP Floodplain Administrator, supported by homeowners	High	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	FEMA HMGP and FMA, local cost share by residents	High	SIP	PP

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).										
2021-City of White Plains -012	Kensico Dam	1, 2	Flood	<p>Problem: If the Kensico Dam were to experience a failure, the City of White Plains would be affected by the ensuing flood. The dam is under the jurisdiction of NYC DEP.</p> <p>Solution: The City of White Plains will coordinate with the facility manager to discuss flood risk and potential mitigation actions.</p>	Yes	No	2 years	DPW, PS	Low	Facility manager aware of flood risk and potential mitigation actions.	Municipal Budget	High	EAP	PI, ES
2021-City of White Plains -013	Silver Lake Dam	1, 2	Flood	<p>Problem: If the Silver Lake Dam were to experience a failure, the City of White Plains would be affected by the ensuing flood. The dam is under the jurisdiction of Town of Harrison.</p> <p>Solution: The City of White Plains will coordinate with the facility manager to discuss flood risk and potential mitigation actions.</p>	No	No	2 years	DPW, PS	Low	Facility manager aware of flood risk and potential mitigation actions.	Municipal Budget	High	EAP	PI, ES
2021-City of White Plains -014	Tree Pruning and Removal	1, 2	Severe Storm, Severe Winter Storm	<p>Problem: Large trees can fall or have limbs damage overhead wires.</p> <p>Solution: The City will survey the health of trees on an ongoing basis and remove trees that are in imminent danger of effecting power lines. The City will work with utility companies on trees that effect power lines to encourage them to conduct tree pruning as needed.</p>	No	No	2 years	DPW, PS	Medium	Mitigate the hazard associated with tree damage.	Municipal Budget	High	NSP	NR
2021-City of	Catch Basin Maintenance	1, 2	Flooding	<p>Problem: When catch basins become clogged with debris, they may pose a flooding threat.</p>	No	No	2 years	DPW, PS	Medium	Mitigate the hazard	Municipal Budget	High	LP R	PR

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
White Plains -015				Solution: The City will continue to implement a program to check for drains that are in historically problem areas and clear debris before storms. The City will also continue to perform ongoing maintenance of catch basins on a rotational basis throughout the City.						associated with flooding.				
2021-City of White Plains -016	Identify Locations for Permanent Housing	1, 2	All Hazards	Problem: The City lacks identified locations for permanent housing. Solution: The City will work with Westchester County to identify locations for permanent housing within the City or in neighboring municipalities. Locations will be cited outside the SFHA.	No	None	Within 2 years	Administration, County	Staff time	Housing locations identified	Municipal Budget	High	LP R	PR, ES
2021-City of White Plains -017	Backup Power for Hall Avenue Pump Station	1, 2	Flood, Severe Storm, Severe Winter Storm, Earthquake, Extreme Temperatures	Problem: Critical facilities require backup power to maintain continuity of operations. There are emergency service facilities in the City that lack permanent backup power and utilize portable generators such as: <ul style="list-style-type: none">o The Hall Avenue Booster Pump. A standby generator is now being installed. Solution: The Engineer will research what size generator is needed to power the Booster Pump. The City will then purchase and install the selected generator and necessary electrical components to supply backup power to the facility. Public Works will be responsible	Yes	No	Within 5 years	DPW, PS	High	By continuing to upgrade to standby generators at all fire stations and emergency service locations, adequate protections can be afforded to the public.	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget	High	SIP	ES

Project Number	Project Name	Goals Met	Hazard(s) to be Mitigated	Description of Problem and Solution	Critical Facility (Yes/No)	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Mitigation Category	CRS Category
				for maintenance and testing of the generator following installation.										
2021-City of White Plains -018	Cloverdale Avenue Drainage Improvement Study	1, 2	Flood, Severe Storm	<p>Problem: There are low lying areas in the Cloverdale Avenue section of the City where properties have experienced flood losses.</p> <p>Solution: The City Engineer will study drainage improvements for the area including storage and stormwater detention. If it is determined that drainage improvements will not sufficiently reduce flooding, the City will pursue mitigation of individual properties.</p>	No	No	2 Years	City Engineer	\$63,000	Reduction in area flooding and property damage	City Budget-HMGP, FMA, BRIC	High	SIP	SP
2021-City of White Plains - 019	Enhanced GPS Communications	1,2	All Hazards	<p>Problem: During and following a Hazard Event the City lacks the capability to identify the location of the nearest staff in the field to a particular situation needing immediate attention.</p> <p>Solution: Install GPS tracking and enhanced communications in all municipal vehicles to aid in the dispatch and work force allocation.</p>	No	No	2 Years	City Engineer, Building Inspector, Code Enforcement and PD	Medium	Directing City Field Staff to emergency locations in the least amount of time can be a life saving measure.	City Budget	High	EAP	ES

Notes:

Not all acronyms and abbreviations defined below are included in the table.

Acronyms and Abbreviations:

CAV Community Assistance Visit
 CRS Community Rating System
 DPW Department of Public Works
 EHP Environmental Planning and Historic Preservation
 FEMA Federal Emergency Management Agency
 FPA Floodplain Administrator
 HMA Hazard Mitigation Assistance

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP Hazard Mitigation Grant Program
 BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation

Cost:

The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.



N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Critical Facility:

Yes  Critical Facility located in 1% floodplain

Mitigation Category:

- *Local Plans and Regulations (LPR)* – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- *Structure and Infrastructure Project (SIP)* - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- *Natural Systems Protection (NSP)* – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- *Education and Awareness Programs (EAP)* – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- *Preventative Measures (PR)* - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- *Property Protection (PP)* - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- *Public Information (PI)* - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- *Natural Resource Protection (NR)* - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- *Structural Flood Control Projects (SP)* - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- *Emergency Services (ES)* - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities

Table 9.6-21. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-City of White Plains-001	Flood Resiliency through CRS	1	1	1	1	1	1	1	1	1	1	0	0	1	1	12	High
2021- City of White Plains -002	Harden City Facilities and Infrastructure	1	1	1	0	1	1	0	1	1	1	1	0	1	1	11	High
2021- City of White Plains -003	Assess Shelters and Backup Power Needs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021- City of White Plains -004	Update ERP	1	1	1	0	1	1	1	1	1	1	1	1	1	1	13	High
2021- City of White Plains -005	Backup Power at Fire Stations	1	1	0	1	1	1	1	1	1	1	1	0	1	1	12	High
2021 City of White Plains-006	Hazard Mitigation Integration	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021 City of White Plain-007s	Enhance Natural Systems	1	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High
2021 City of White Plains-008	Floodplain Management	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021 City of White Plains-009	Partner with Utility Providers on Hazard Mitigation Efforts	1	1	1	1	1	0	1	1	1	1	1	0	1	1	12	High
2021 City of White Plains-010	Clean, Stable Power Supply	1	1	1	0	1	1	0	1	1	1	1	0	1	1	11	High
2021-City of White Plains-011	Repetitive Loss Mitigation	1	1	1	0	1	1	1	1	1	1	0	0	1	1	11	High
2021-City of White Plains-012	Kensico Dam	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2021-City of White Plains-013	Silver Lake Dam	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2021-City of White Plains-014	Tree Pruning and Removal	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021-City of White Plains-015	Catch Basin Maintenance	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2021-City of White Plains-016	Identify Locations for Permanent Housing	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2021-City of White Plains-017	Backup Power for Critical Facilities	1	1	0	1	1	1	1	1	1	1	1	0	1	1	12	High

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
2021-City of White Plains-018	Cloverdale Avenue Drainage Improvement Study	1	1	1	0	1	1	1	1	1	1	0	1	1	1	12	High
2021-City of White Plains- 019	Enhanced GPS Communications	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).

9.6.9 Action Worksheets

The following action worksheets have been developed by the City of White Plains to aid in the submittal of grant applications to support the funding of high priority proposed actions.

Action Worksheet			
Project Name:	Backup Power for Hall Avenue Pump Station		
Project Number:	2021-City of White Plains-017		
Risk / Vulnerability			
Hazard(s) of Concern:	Severe Storm, Severe Winter Storm, Extreme Temperature		
Description of the Problem:	The pump station provides adequate water pressure for distribution and fire protection for high elevation areas. Like all Critical facilities, the Pump Station requires backup power to maintain continuity of operations.		
Action or Project Intended for Implementation			
Description of the Solution:	The Engineer will research what size generator is needed to power the Pump Station. The City will then purchase and install the selected generator and necessary electrical components to supply backup power to the Pump Station. Public Works will be responsible for maintenance and testing of the generator following installation. The standby emergency generator will provide continuous power during outages caused by hazardous events.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	High	Estimated Benefits (losses avoided):	Protect public health and safety, and ensure continued operation of critical facility and essential functions during power outages.
Useful Life:	30 years	Goals Met:	Continuity of water service to residence
Estimated Cost:	\$100,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Bond
Responsible Organization:	DPW	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Portable Generator	\$50,000.00	Response time is too long. Not eligible for funding
	Bottled Water	\$20,000.00	Issues with Distribution/Logistics/Capacity
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Evaluation and Prioritization		
Project Name:	Backup Power for Hall Avenue Pump Station	
Project Number:	2021-City of White Plains-017	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of critical facilities
Property Protection	1	Project will protect buildings from power loss.
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	The City has the legal authority to complete the project.
Fiscal	1	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Severe Winter Storm, Extreme Temperature
Timeline	0	Within 1 year
Agency Champion	1	Engineer, Public Works
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	

Action Worksheet			
Project Name:	Cloverdale Avenue Drainage Improvement Study		
Project Number:	2021-City of White Plains-018		
Risk / Vulnerability			
Hazard(s) of Concern:	Flooding		
Description of the Problem:	Flooding occurs during heavy precipitation storm events in portions of the Cloverdale Avenue neighborhood		
Action or Project Intended for Implementation			
Description of the Solution:	The City will study drainage improvements to the existing stormwater system for the area; including the possibility of providing storage and/or stormwater detention to help mitigate flooding.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	High	Estimated Benefits (losses avoided):	Identification of stormwater components to support mitigation actions
Useful Life:	N/A	Goals Met:	1, 2
Estimated Cost:	\$63,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	1 year
Estimated Time Required for Project Implementation:	2 years	Potential Funding Sources:	City Budget-HMGP, FMA, BRIC
Responsible Organization:	City Engineer	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation planning, stormwater planning
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Raise Property	High	No current funding and takes a long time.
	Purchase Residences	High	No current funding, displaces residents and takes a long time.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

Evaluation and Prioritization		
Project Name:	Cloverdale Avenue Drainage Improvement Study	
Project Number:	2021-City of White Plains-018	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Reduction in flooding risk
Cost-Effectiveness	0	
Technical	1	Technically feasible project
Political	1	
Legal	1	The City has the legal authority to conduct the project
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	2 years
Agency Champion	1	City Engineer
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	