

9.37 Village of Pelham Manor

This section presents the jurisdictional annex for the Village of Pelham Manor.

9.37.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan's primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
John Pierpont, Village Manager 4 Penfield Place, Pelham Manor, NY 10803 (914) 738-8820 villagemanager@pelhammanor.org	Maryalice Barnett, Personnel Manager 4 Penfield Place, Pelham Manor, NY 10803 (914) 738-8820 deputyclerk@pelhammanor.org

9.37.2 Municipal Profile

This section provides a summary of the community.

Population

According to the U.S. Census, the 2010 population for the Village of Pelham Manor was 5,486.

Location

The Village of Pelham Manor is a historic suburban municipality located on the Sound Shore of southern Westchester County with an area of 1.2 square miles. Its location provides easy access to New York City and major transportation hubs. The Village is bordered to the north by Eastchester, to the south by the Long Island Sound, to the east by New Rochelle, and to the west by Mount Vernon.

Brief History

Pelham Manor has a long and rich history dating from before the first Dutch settlers arrived. The area was home to the Siwanoy Indians who sold approximately 9,200 acres which includes what is now Pelham, New Rochelle and part of the Bronx to William Pell in 1654. In Colonial times, the Battle of Pelham, fought on October 18th, 1776 was a turning point in the War of Independence.

Governing Body Format

An elected Mayor and Board of Trustees govern Pelham Manor. They supervise a full-time professional Village Manager, who manages day-to-day operations. The Village provides basic fire and police protection; public works (trash collection, street and sewer repair) and manages administrative matters, such as building permits, zoning and planning codes. These services are provided through our own police, fire and public works departments.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2005 and any known or anticipated major development that has been identified in the next five years within the municipality.

Table 9.37-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	Number of Units / Structures	Location (address and/or Parcel IDs)	Known Hazard Zones*	Description / Status
Recent Development					
None					
Known or Anticipated Development					
None identified at this time.					

* Only location-specific hazard zones or vulnerabilities identified.

9.37.3 Natural Hazard Event History Specific to the Municipality

Westchester County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 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. For the purpose of this plan update, events that have occurred in the County from 2005 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.37-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
August 8-10, 2009	Severe Storms and Flooding	DR-1857	No	Several severe thunderstorms impacted in the Lower Hudson Valley, including Westchester County. Numerous trees were reported down throughout the County. Some trees took down power lines with them, causing sporadic power outages. Overall, the County had approximately \$16,000 in damages.
March 13-31, 2010	Severe Storms and Flooding	DR-1899	Yes	On April 16, 2010, FEMA announced that federal disaster aid was made available for the State of New York due to the severe storms and flooding that struck between March 13 and 15. Nassau, Orange, Richmond, Rockland, Suffolk and Westchester Counties were all included in this declaration. This storm caused seven deaths in Northeast U.S. and more than 300,000 customers were without power. Hurricane-force winds knocked down trees and power lines. Heavy rain caused flooding across the region. Flood warnings were issued from northern Virginia to southern New Hampshire. Some coastal areas received more than six inches of rain. Con Ed reported that more than 86,000 customers were without power in New York City and Westchester County. In Westchester County, schools were closed.
August 26 - September 5, 2011	Hurricane Irene	DR-4020	Yes	As Hurricane Irene moved north along the Atlantic coast, it weakened and made its second landfall as a Tropical Storm near Little Egg Inlet along the southeast New Jersey coast. The storm made its third landfall in New York City on August 28th. This storm brought sustained winds, heavy rain, destructive storm surge and two confirmed tornadoes. Heavy rainfall resulted in widespread moderate flooding across the area. Seven deaths resulted from Irene. At least 600,000 people were ordered to evacuate their homes from storm surge and

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
				inland flooding. Widespread power outages of up to one week followed the storm. The strong winds from Irene pushed a three to five foot storm surge of water along western Long Island Sound, New York Harbor, the southern and eastern bays of Long Island, and southern bays of New York City. This resulted in moderate to major coastal flooding, wave damage and erosion along the coast,
September 7-11, 2011	Remnants of Tropical Storm Lee	DR-4031	No	Ten days after Hurricane Irene struck, the remnants of Tropical Storm Lee produced record setting rainfall over the same area and lead to historical flooding in some areas of New York State.
October 27-November 8, 2012	Hurricane Sandy	DR-4085	Yes	<p>Hurricane Sandy was the 19th named tropical cyclone of the 2012 Atlantic hurricane season. The track of Hurricane Sandy resulted in a worse-case scenario for storm surge for coastal regions from New Jersey north to Connecticut, including New York City and Long Island. It was the costliest natural disaster in southeast New York State. It caused record breaking tides and wave action, as well as sustained winds of 40 to 60 mph and wind gusts of 80 to 90 mph. These extreme conditions resulted in at least 60 deaths and widespread property damage of at least \$42 billion. Emergency managers recommended mandatory evacuations of more than 500,000 people that lived in low-lying areas. Widespread significant power outages of more than two million people lasted up to two weeks.</p> <p>In Westchester County, Sandy did not result in significant rainfall; however, it still caused extreme coastal flooding from storm surge and high winds. Low lying areas along the Hudson River experienced moderate coastal flooding as storm surge moved north along the River as Sandy made landfall in southern New Jersey. This coincided with widespread record coastal flooding occurring in Lower New York Harbor exceeding the FEMA 100 year BFE. Up to two to feet of inundation occurred in the low lying areas. Coastal communities in Westchester County along the southern portions of the County experienced two successive tidal cycles with at least moderate coastal flooding on the 28th. Maximum wind gusts ranged between 80 and 90mph. A wind gust of 64 mph was recorded at the Tappan Zee Bridge. A wind gust of 72 mph was measured at the White Plains Airport. The County at least three fatalities related to Sandy and over \$527 million in damages and recovery needs. Overall, the County experienced power outages, school and business closings, flooding, fuel shortages, downed utility poles and trees. Over 156,000 customers lost power in New York City and Westchester County. FEMA Public Assistance topped \$38 million to fund emergency efforts, remove debris, and rebuild infrastructure.</p>

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

IA Individual Assistance

N/A Not applicable

PA Public Assistance

9.37.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Village of Pelham Manor. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Natural Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the natural hazard risk/vulnerability rankings of potential hazards for Village of Pelham Manor.

Table 9.37-3. Natural Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Earthquake	100-Year GBS: \$0 500-Year GBS: \$786,273 2,500-Year GBS: \$17,891,414	Occasional	24	Medium
Extreme Temperature	Damage estimate not available	Frequent	30	Medium
Flood	1% Annual Chance: \$18,486,505	Frequent	36	High
Severe Storm	100-Year MRP: \$2,795,694 500-year MRP: \$20,354,015 Annualized: \$194,923	Frequent	48	High
Winter Storm	1% GBS: \$15,389,851 5% GBS: \$76,949,255	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$614,111,691	Frequent	24	Medium

a. Building damage ratio estimates based on FEMA 386-2 (August 2001)

b. The valuation of general building stock and loss estimates was based on the custom inventory developed for Westchester County and probabilistic modeling results and exposure analysis as discussed in Section 5.

c. The earthquake and hurricane wind hazards were evaluated by Census tract. The Census tracts do not exactly align with municipal boundaries; therefore, a total is reported for each Town inclusive of the Villages.

d. Frequent = Hazard event that is likely to occur within 25 years;
Occasional = Hazard event that is likely to occur within 100 years; and
Rare = Hazard event that is not likely to occur within 100 years

e. The estimated potential losses for Severe Storm are from the HAZUS-MH probabilistic hurricane wind model results. See footnote c.

GBS = General building stock

MRP = Mean return period

RCV = Replacement cost value

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the municipality.

Table 9.37-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Village of Pelham Manor	90	37	\$403,693.08	1	0	18

Source: FEMA Region 2, 2014

- (1): Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of March 31, 2014. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents the number of claims closed by March 31, 2014.
- (2): Information regarding total building and content losses was gathered from the claims file provided by FEMA Region 2.
- (3): The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file. FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1-percent annual chance flood events.

Table 9.37-5. Potential Flood Losses to Critical Facilities

Name	Municipality	Type	Exposure		Potential Loss From 1% Event		
			1% Event	0.2% Event	% Structure Damage	% Content Damage	Days to 100-Percent
Imperia Bros. Wharf	Pelham Manor (V)	Port	X	X	-	-	-
J. Bass & Sons, Pelham Manor Dock	Pelham Manor (V)	Port	X	X	-	-	-

Source: Westchester County, FEMA 2014

Note: Please note it is assumed that wells have electrical equipment and openings are three-feet above grade.

- (1) HAZUS-MH 2.1 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.1 User Manual).
- (2) In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type.

Other Vulnerabilities Identified by Municipality

The following flood-prone areas have been identified by the Village of Pelham Manor through the Westchester County Stormwater Reconnaissance Plan process (see Section 6 – Capability Assessment for a description of the program; see map at the end of this annex for location of these problem areas):

Map Area ID: PMR-1

Municipality: PELHAM MANOR

General Location: Mount Tom Road and Pelham Country Club

Nearest Watercourse or Water Body: New Rochelle Harbor

Associated Study/Report: NONE

Evaluation Score (Low, Medium, High): Low

General Description of Flooding: Respondent stated the problem is general road flooding and flooding on the golf course of Pelham Country Club. Road flooding impacts about four or five residences. Flooding has occurred up to about 15 times over the past decade.

Map Area ID: PMR-2

Municipality: PELHAM MANOR

General Location: Wolfs Lane and Iden Avenue

Nearest Watercourse or Water Body: Hutchinson River

Associated Study/Report: NONE

Evaluation Score (Low, Medium, High): Low

General Description of Flooding: Respondent stated the problem is general road flooding impacting 15 to 40 residential units. Flooding has occurred seven or eight times over the past decade.

Map Area ID: PMR-3

Municipality: PELHAM MANOR

General Location: Shore Road and Shoreview Circle

Nearest Watercourse or Water Body: New Rochelle Harbor

Associated Study/Report: NONE

Evaluation Score (Low, Medium, High): Low

General Description of Flooding: Respondent stated the problem is general road flooding from rainfall and tidal influences. Flooding has occurred about six times over the past decade.

Map Area ID: PMR-4

Municipality: PELHAM MANOR

General Location: Pelham Country Club

Nearest Watercourse or Water Body: New Rochelle Harbor

Associated Study/Report: NONE

Evaluation Score (Low, Medium, High): Low

General Description of Flooding: Respondent stated the problem is general road flooding along Country Club Lane in the vicinity of Pelham Country Club Lake. Flooding has occurred about six times over the past decade.

Map Area ID: PMR-5

Municipality: PELHAM MANOR

General Location: Highbrook Avenue and Randall Place

Nearest Watercourse or Water Body: Hutchinson River

Associated Study/Report: NONE

Evaluation Score (Low, Medium, High): Low

General Description of Flooding: Respondent stated the problem is general road flooding impacting 15 to 40 residential units. Flooding has occurred five to six times over the past decade.

9.37.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the municipality.

Table 9.37-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Building Code	Y	Local and State	Village, NYS Div. BSC	Chapter 74 Village Code NYS Building Code
Zoning Ordinance	Y	Local	Village	Chapter 210 Village Code Local Law 1 2014 Gaming Assessments Zoning Amendment
Subdivision Ordinance	Y	Local	Village	Chapter 74 and 210 of Village Code
NFIP Flood Damage Protection Ordinance	Y	Federal, State, Local	Village	Chapter 74 Village Code
NFIP - Freeboard	Y	State, Local		State mandated BFE+2 for single and two- family residential construction, BFE+1 for all other construction types
NFIP - Cumulative Substantial Damages	Y	Local		
Special Purpose Ordinances (e.g. wetlands, critical or sensitive areas)	N			
Growth Management	N			
Floodplain Management / Basin Plan	Y	Local	Village	Chapter 183 and 210 of Village Code
Stormwater Management Plan/Ordinance	Y			
Comprehensive Plan / Master Plan	N			
Capital Improvements Plan	N			
Site Plan Review Requirements	Y	Local	DPW	Village Code
Habitat Conservation Plan	N			
Economic Development Plan	Y	Local	Village	Village Code
Emergency Response Plan	Y	Local	Police and Fire	Department SOPs
Post Disaster Recovery Plan	Y	Local, County and State	Village	NYS Recovery Process
Post Disaster Recovery Ordinance	N			
Real Estate Disclosure req.	Y	State	Village	NYS mandate
Other (e.g. steep slope ordinance, local waterfront	N			

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
revitalization plan)				
Coastal Erosion Control Districts	N			
Shoreline Management Plan	N			

(1) NYS Subdivision laws provide a general framework, but allow room for local ordinances and interpretation.

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Pelham Manor.

Table 9.37-7. Administrative and Technical Capabilities

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Outside Consultant
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Village Manager
Planners or engineers with an understanding of natural hazards	Y	Consultant
NFIP Floodplain Administrator	Y	Village Manager
Surveyor(s)	Y	Consultant
Personnel skilled or trained in "GIS" applications	Y	County
Scientist familiar with natural hazards in the County.	N	
Emergency Manager	Y	Village Manager
Grant Writer(s)	Y	Consultant
Staff with expertise or training in benefit/cost analysis	Y	Village Manager
Professionals trained in conducting damage assessments	Y	Fire, Police and DPW

Fiscal Capability

The table below summarizes financial resources available to the Village of Pelham Manor.

Table 9.37-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG)	Yes – Eligible
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact Fees for homebuyers or developers of new development/homes	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	Don't Know
Mitigation grant programs	Yes
Other	N/A

Community Classifications

The table below summarizes classifications for community program available to the Village of Pelham Manor.

Table 9.37-9. Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	TBD	
Public Protection	TBD	
Storm Ready	NP	N/A
Firewise	NP	N/A

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications listed above relate to the community's ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO's Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

National Flood Insurance Program

The following section provides details on the National Flood Insurance Program (NFIP) as implemented within the municipality:

NFIP Floodplain Administrator:

John T. Pierpont, Village Manager

Flood Vulnerability Summary

As of 4/30/2015 there are 97 NFIP policies in force within the community, insuring \$ 32,567,200 of property with total annual insurance premiums of \$ 94,241. Since 1978, 45 NFIP claims have been paid totaling \$ 403,693. As of 3/31/2014, there is 1 Repetitive Loss and no Severe Repetitive Loss properties in the community.

See additional flood vulnerabilities identified earlier in this annex.

Resources

The Village Manager is the designated floodplain administrator, who makes available floodplain maps, performs permit review and inspections. These activities are an ancillary function of the Village Manager.

The Village Planning and Zoning Boards consider efforts to reduce flood risk when reviewing site plans and variance applications.

The NFIP FPA feels they are adequately supported and trained to support floodplain management functions, however would attend floodplain management workshops if provided locally.

Compliance History

The community is currently in good standing in the NFIP and has no outstanding compliance issues. The current NFIP Floodplain Administrator has no knowledge of when the last CAV was performed. The municipality sees no specific need for a CAV at this time.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Operational and Administration

The Village provides mutual aid (police, fire and emergency services) and may rely on neighboring municipalities for additional help when necessary.

The Village has established evacuation routes, which will be evaluated periodically to assess their continued effectiveness and determine if they are still viable based on any changing land use or traffic patterns in the Village. Should evacuation be necessary, the public will be notified through an evacuation notification system that may include notices in the local newspaper, announcements on local cable channels or electronic means such as email or text messages.

Village trees are surveyed on an annual basis by a certified tree steward. This helps the Village determine whether there is a significant concern of weak or dying trees within the Village right of way.

The Village has secured funds to improve stormwater drainage and is pursuing additional funds to help.

Education and Outreach

The Village relies on the support of volunteers. Encouraging volunteers will help the Village to maintain its emergency response provisions. Public outreach is done and recruitment campaigns and advertisements are placed in the local paper.

9.37.6 Mitigation Strategy and Prioritization

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

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2011 Plan. 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 9.37-10. Past Mitigation Initiative Status

Description	Status	Review Comments
Prepare a Comprehensive Plan	No Progress	The Village has not adopted a comprehensive plan, but will investigate the applicability and effectiveness of preparing a comprehensive plan. This initiative will be included in the Plan Update.
Maintain mutual aid agreements with surrounding communities (Emergency Services, Water, Shelter, etc.)	On-Going	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations.
Maintain provision of emergency services	On-Going	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations.
Conduct public outreach efforts to attract firefighter volunteers and ensure adequate protection services are maintained	On-Going	The Village relies on the support of volunteers. Encouraging volunteers will help the Village to maintain its emergency response provisions. Public outreach is done and recruitment campaigns and advertisements are placed in the local paper.
Improve emergency access on the east side of I-95	In Progress	I-95 transects Pelham Manor in a north-south direction separating the easternmost portion of the Village from western portions. Emergency response facilities are located west of I-95 but only one roadway (Pelhamdale Avenue) within the Village provides an underpass under i-95. The Village will monitor flooding conditions in this area and maintain adequate stormwater drainage to ensure that Pelhamdale Avenue and the I-95 underpass remain clear for emergency apparatus. This initiative will be included in the Plan Update.
Encourage communication between residents and Village officials to develop ideas on mitigation strategies and actions	In Progress	Hazard Mitigation and planning in an interactive process that involved input from government official as well as the public. The Village will encourage and provide a means for public participation in development of hazard mitigation goals and actions. This initiative will be included in the Plan Update.
Develop an automated notification system to alert officials of water and pump station failure.	No Progress	The Village relies on a private purveyor (United Water) for its water supply. System failure would potentially disrupt service to all customers in the Village. A system that warns of impending failure, will be investigate so that potential problems can be addressed before they occur. This initiative will be included in the Plan Update.

Table 9.37-10. Past Mitigation Initiative Status

Description	Status	Review Comments
Assess the Village's availability of temporary shelters	In Progress	The Village will evaluate the need and feasibility of enhancing Village Hall to function adequately as a temporary shelter or whether other structures would be appropriate to be used as shelters. This initiative will be included in the Plan Update.
Assess the need to purchase backup generators at critical facilities and temporary shelter facilities	In Progress / Completed	Pelham Manor Village Hall is equipped with a generator and currently functions as a potential shelter. Village Hall is limited in space. It houses government offices. The Schools in Pelham Manor do not have generators or adequate resources to accommodate people for extended stays. This initiative will be included in the Plan Update.
Evaluate evacuation routes; inform the public of these routes; provide signage that clearly marks evacuation routes	Completed	The Village has established evacuation routes, which will be evaluated periodically to assess their continued effectiveness and determine if they are still viable based on any changing land use or traffic patterns in the Village. Should evacuation be necessary the public will be notified through an evacuation notification system that may include notices in the local newspaper, announcements on local cable channels or electronic means such as email or text messages.
Conduct regular tree surveys and trim or remove weak trees that may compromise public safety by falling or losing limbs during severe weather events	On-Going	The Village will determine whether there is a significant concern of weak or dying trees within the Village right of way. Village trees are surveyed on an annual basis by a certified tree steward. This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations.
Coordinate with utility companies to prevent trees from affecting vital utility lines	No Progress	In addition to property damage and health risks, downed trees and tree limbs can result in disruption to the utility systems. Downed trees and tree limbs are a significant cause of power outages by taking down power lines. Healthy trees can also be hazardous if they become overgrown. The Village will assess the need for coordinating with the utility company to identify trees that may obstruct utility services. This initiative will be included in the Plan Update.
Improve stormwater drainage in flood-prone areas	In Progress	Several areas in the Village of Pelham Manor that are outside FEMA delineated floodplains have experienced frequent flooding due to poor stormwater drainage. The Village secured funds to improve stormwater drainage and is pursuing additional funds to help. This initiative will be included in the Plan Update.
Work with NYSDOT to improve stormwater drainage in flood-prone sections of the Hutchinson River Parkway/	No Progress	The Hutchinson River Parkway generally parallels the Hutchinson River, which is prone to flooding during storm events. Sections of the highway line within the 100 and 500 year floodplain zones The Hutchinson River Parkway is heavily travelled and is one of the evacuation routes for the Village. This initiative will be included in the Plan Update.
Discourage development in known floodplains	On-Going	Flood risks can be significantly reduced by preventing development in floodplains. Much of the Village's floodplains are developed, but public

Table 9.37-10. Past Mitigation Initiative Status

Description	Status	Review Comments
		policy documents can be used to guide development or redevelopment. This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations.
Educate the public on flood insurance availability and requirements	No Progress	The Village of Pelham Manor participates in the NFIP. The Village will conduct public outreach to increase awareness of the NFIP and requirements for properties within floodplains. The Village will establish a point person at Village Hall that the public can contact. This initiative will be included in the Plan Update.
Support Floodplain Regulations through Zoning	On-Going	Zoning ordinances are important tools in regulating land development. Pelham Manor is mostly built out but may consider building coverage and impervious surface coverage in a significant future rezoning action. This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations.
Update floodplain management policies, as needed	No Progress	The Village will follow progression of any floodplain adjustments that would affect floodplain management in the Village and revise applicable policies. This initiative will be included in the Plan Update.
Provide seminars, brochures, and other materials to educate the public about hazard preparedness	No Progress	The Village will provide educational material to residents and businesses or conduct public seminars - likely in conjunction with a regular public Village Board meeting. This initiative will be included in the Plan Update.
Update demographic information based on the 2010 decennial census.	On-Going	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of municipal operations.

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Village of Pelham Manor has identified the following as mitigation projects/activities that have been completed, are planned, or on-going within the municipality:

- Maintain mutual aid agreements with surrounding communities (Emergency Services, Water, Shelter, etc.)
- The Village maintains provision of emergency services
- The Village relies on the support of volunteers. Encouraging volunteers will help the Village to maintain its emergency response provisions. Public outreach is done and recruitment campaigns and advertisements are placed in the local paper.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Pelham Manor identified mitigation initiatives they would like to pursue in the future. 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. Table 9.37-11 identifies the municipality's updated local mitigation strategy.

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 actions as 'High', 'Medium', or 'Low.' Table 9.37-12 below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.37-11. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals & Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
VPH-1	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss (Village has one RL) and severe repetitive loss properties as a priority when applicable. Phase 1: Identify appropriate candidates and determine most cost-effective mitigation option (in progress). Phase 2: Work with the property owners to implement selected action based on available funding and local match availability.											
	See above.	Existing	Flood, Severe Storm Severe Winter Storm	1, 2, 4	Engineering via NFIP FPA with NYS DHSES, FEMA support	High	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Ongoing (outreach and specific project identification); Long term DOF (specific project application and implementation)	High	SIP	PP
VPH-2 old	Develop and implement an enhanced all-hazards, public outreach / education / mitigation information program on natural hazard risks and what they can do in the way of mitigation and preparedness, including flood insurance. This program will include: <ul style="list-style-type: none"> • Provide a means for public participation in development of hazard mitigation goals and actions. • Conduct public seminars regarding hazard preparedness, most likely in conjunction with regular public village board meetings • The Village will establish a point person at Village Hall that the public can contact regarding flood insurance and the NFIP. • The Village will conduct public outreach to increase awareness of the NFIP by: <ul style="list-style-type: none"> ○ Posting of flyers and other readily available NFIP informational materials at municipal hall or distributing at regular civic meetings. ○ Enhance public outreach to residents in NFIP floodplain areas to inform of annual grant opportunities, etc. which may include periodic articles and handouts in the annual newsletter. 											
	See above.	N/A	All Hazards	1, 3	Elected Official's Office	Medium	Low	Municipal Budget; HMA programs with local or county match	Short / Ongoing	High	EAP	PI
VPH-3 Old	Enhance/expand tree maintenance program (under contract with Village DPW) and coordination with utilities.	Existing	Severe Storm; Severe Winter Storm	1, 2, 4	Engineering and DPW, working with contractors and local utilities	Medium – High (reduced risk of utility outages; life safety)	Medium	Local Budget	Ongoing	Medium	NSP	NR
VPH-4 old	Maintain Mutual Aid agreements with neighboring communities for continuity of operations	N/A	All Hazards	1, 2, 3	Municipality with support from County, NYS DHSES, FEMA and surrounding communities	Medium	Low	Municipal Budget	Ongoing	High	LPR	ES

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals & Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
VPH-5	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1).	Existing	All Hazards	All	Municipal Engineering via NFIP FPA) with NYS DHSES, FEMA support	High	High	Federal and State Mitigation Grant Programs and local budget (or property owner) for cost share	Ongoing (outreach and specific project identification); Long term DOF (specific project application and implementation)	Medium	LPR, SIP	PR, PI
VPH-6 Old	Improve emergency access on the east side of I-95 by monitoring flood conditions in the area of Pelhamdale Avenue and I-95 to ensure this area remains clear for emergency response personnel and vehicles.	Existing	All	1, 2	Village and Planning Consultant	Medium	High	Municipal Budget	DOF	Medium	SIP	PP
VPH-7 old	Investigate an automated notification system to alert officials of water and pump station failure.	Existing	All	1, 2	Village, United Water	Medium	High	Municipal Budget	DOF	Low	SIP	PP
VPH-8 Old	The Village will evaluate the need and feasibility of enhancing Village Hall to function adequately as a temporary shelter or whether other structures would be appropriate to be used as shelters.	Existing	All	1, 2	Village and DPW	High	Low	Municipal Budget	Ongoing / Short Term	High	LPR, SIP	PR, PI
VPH-9 Old	Purchase backup generators for Village schools.	Existing	All	1, 2	Village, DPW and School Administration	Medium	Medium to High	Municipal Budget; HMA programs with local or county match	Short Term / DOF	High	SIP	PP
VPH-10 old	Improve stormwater drainage in floodprone areas throughout the Village. Funds have been secured; however, the Village would like to pursue additional funds for this action.	N/A	Flood, Severe Storm, Severe Winter Storm	1, 2, 4	Village, DPW and Engineer	High	Medium	Municipal Budget; HMA programs with local or county match	Short Term / DOF	High	SIP	PP

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals & Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
VPH-11 old	Work with NYSDOT to improve stormwater drainage in flood-prone sections of the Hutchinson River Parkway, as it is one of the Village's evacuation routes.	Existing	Flood, Severe Storm, Severe Winter Storm	1, 2	Village, County and NYSDOT	Medium	Medium	Village	Short Term / DOF	Medium	SIP	PP
VPH-12 old	The Village will follow progression of any floodplain adjustments that would affect floodplain management in the Village and revise applicable policies.	N/A	Flood, Severe Storm, Severe Winter Storm	1, 2, 5	Village and Planning Consultant	High	Medium	Village	Short Term	High	LPR	PR
VPH-13 Old	The Village will investigate the preparation and adoption of a comprehensive plan and update with each five-year HMP, as needed.	N/A	All	1, 2, 5	Village and Planning Consultant	Medium	Medium	Village	Short Term	High	LPR	PR

Notes:

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

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGP	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program
RFC	Repetitive Flood Claims Grant Program (discontinued in 2015)
SRL	Severe Repetitive Loss Grant Program (discontinued in 2015)

Timeline:

Short	1 to 5 years
Long Term	5 years or greater
OG	On-going program
DOF	Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low=	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Costs:

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
High	Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where numerical project benefits cannot reasonably be established at this time:	
Low	Long-term benefits of the project are difficult to quantify in the short term.
Medium	Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High	Project will have an immediate impact on the reduction of risk exposure to life and property.

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 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 9.37-12. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	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
VPH-1	Support the mitigation of vulnerable structures	1	1	1	1	0	0	0	0	1	0	1	1	0	0	7	High
VPH-2 (old)	Development and implement all-hazards, public outreach/education, mitigation information, etc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
VPH-3 Old	Enhance/expand tree maintenance program (under contract with Village DPW) and coordination with utilities.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Medium
VPH-4 old	Maintain Mutual Aid agreements with neighboring communities for continuity of operations	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
VPH-5	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1).	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Medium
VPH-6 Old	Improve emergency access on the east side of I-95 by monitoring flood conditions in the area of Pelhamdale Avenue and I-95 to ensure this area remains clear for emergency response personnel and vehicles.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Medium
VPH-7 old	Investigate an automated notification system to alert officials of water and pump station failure.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Low
VPH-8 Old	The Village will evaluate the need and feasibility of enhancing Village Hall to function adequately as a temporary shelter or whether other structures would be appropriate to be used as shelters.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
VPH-9 Old	Purchase backup generators for Village schools.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
VPH-10 old	Improve stormwater drainage in floodprone areas throughout the Village. Funds have been secured; however, the Village would like to pursue additional funds for this action.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
VPH-11 old	Work with NYSDOT to improve stormwater drainage in flood-prone sections of the Hutchinson River Parkway, as it is one of the Village's evacuation routes.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Medium

Mitigation Action/Project Number	Mitigation Action/Initiative	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
VPH-12 old	The Village will follow progression of any floodplain adjustments that would affect floodplain management in the Village and revise applicable policies.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High
VPH-13 Old	The Village will investigate the preparation and adoption of a comprehensive plan and update with each five-year HMP, as needed.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.

9.37.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.37.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Pelham Manor that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Pelham Manor has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.37.9 Additional Comments

None at this time.

Figure 9.37-1. Village of Pelham Manor Hazard Area Extent and Location Map

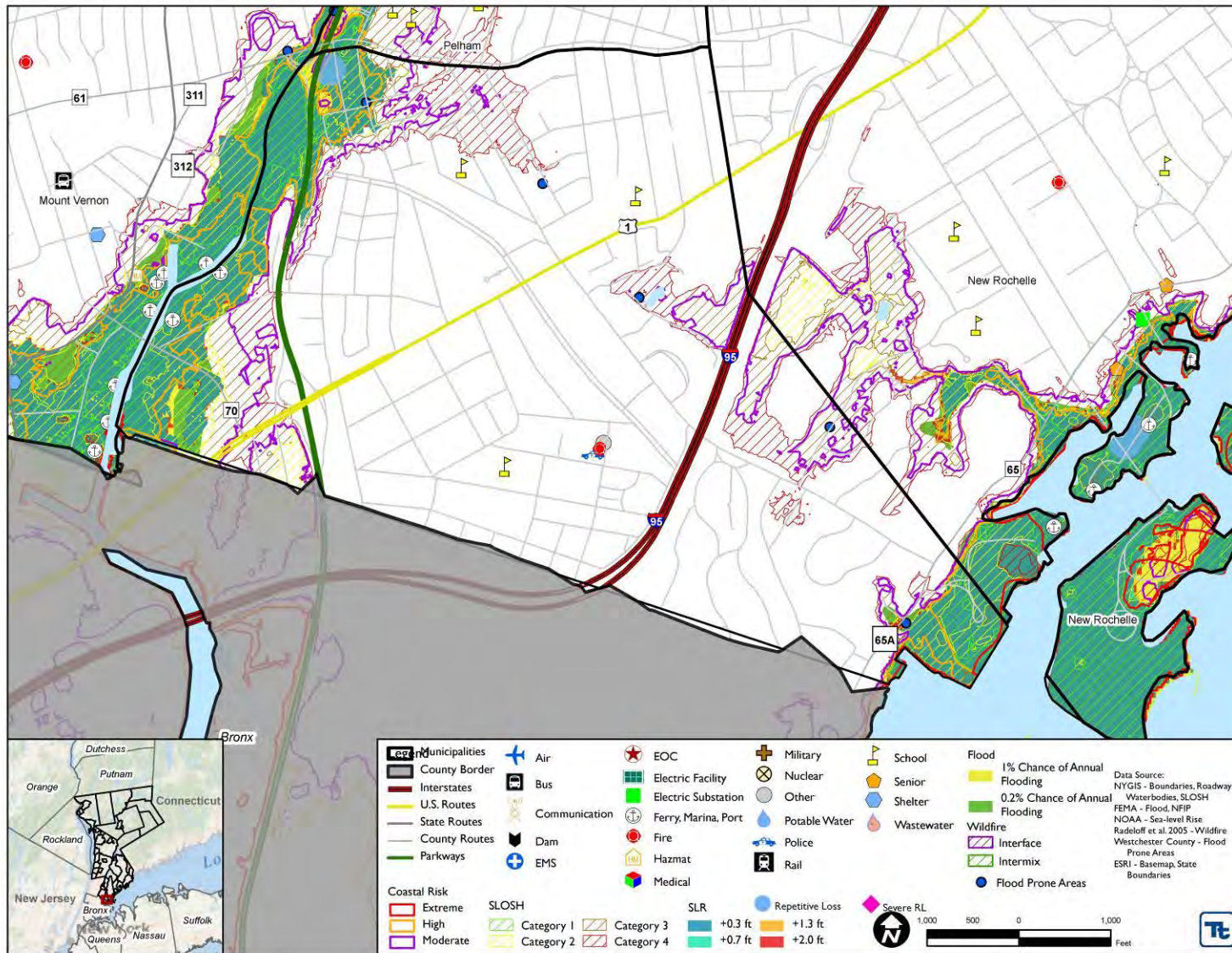
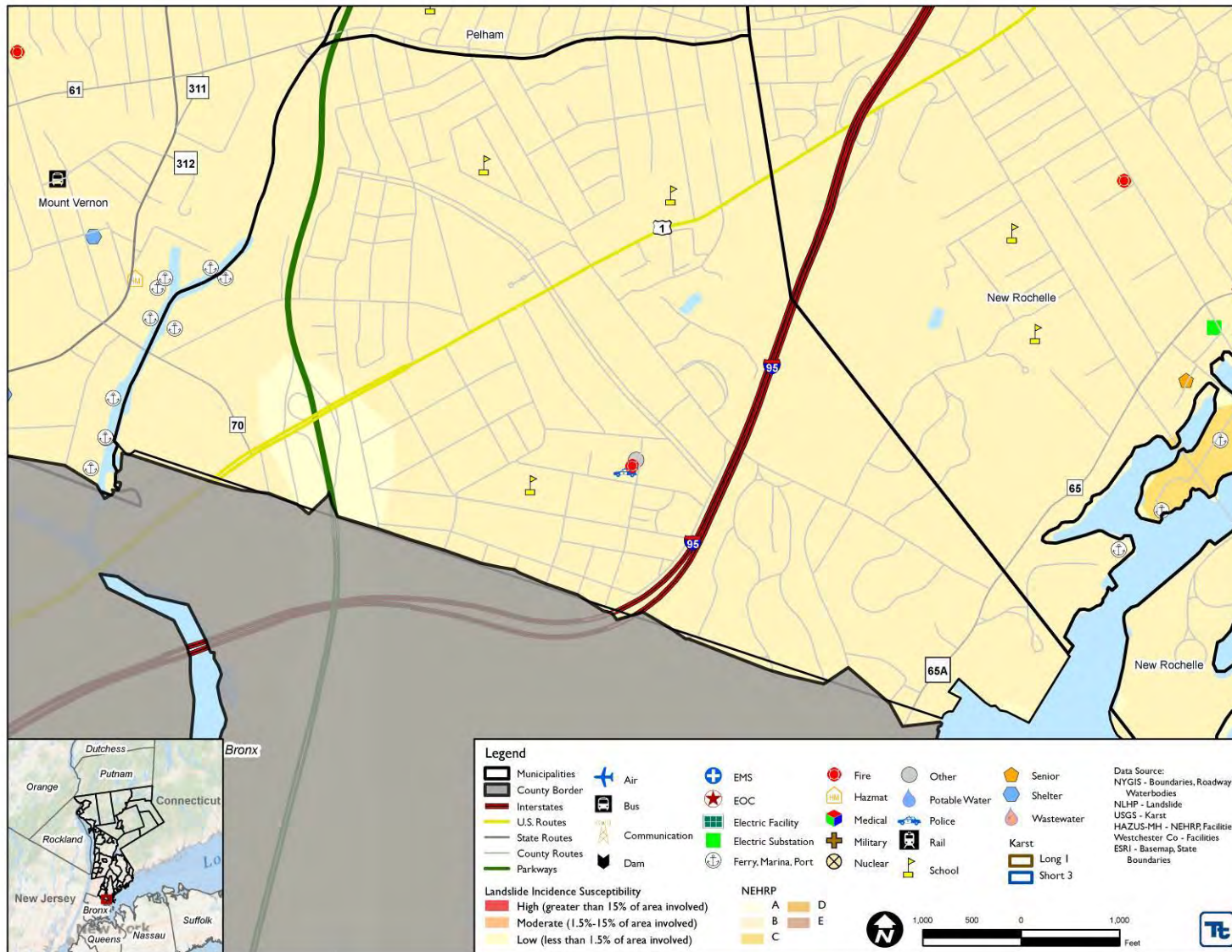


Figure 9.37-2. Village of Pelham Manor Hazard Area Extent and Location Map



Name of Jurisdiction: Pelham Manor (V)
Action Number: VPH-9
Action Name: Backup generator for Village schools

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Loss of power to schools in the Village
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Purchase and install a backup generator for all Village schools
	2. Purchase portable generators
	3. Do nothing – current problem continues
Action/Project Intended for Implementation	
Description of Selected Action/Project	Purchase backup generators for Village schools
Mitigation Action/Project Type	SIP
Objectives Met	1, 2
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Medium to High
Priority*	High
Plan for Implementation	
Responsible Organization	Village, DPW and School Administration
Local Planning Mechanism	TBD
Potential Funding Sources	Municipal Budget; HMA programs with local or county match
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (next page)

Action Number:

VPH-9

Action Name:

Backup generator for Village schools

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (High/Med/Low)	High	

Name of Jurisdiction:	Pelham Manor (V)
Action Number:	VPH-10
Action Name:	Improve stormwater drainage in floodprone areas throughout the Village

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm, Severe Winter Storm
Specific problem being mitigated:	Inadequate stormwater drainage in the Village leads to flooding in certain areas throughout the municipality.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Improve stormwater drainage in floodprone areas
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Improve stormwater drainage in floodprone areas throughout the Village. Funds have been secured; however, the Village would like to pursue additional funds for this action.
Mitigation Action/Project Type	SIP
Objectives Met	1, 2, 4
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible Organization	Village, DPW and Engineer
Local Planning Mechanism	Stormwater Management, Capital Improvement
Potential Funding Sources	Municipal Budget; HMA programs with local or county match
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (next page)

Action Number:

VPH-10

Action Name:

Improve stormwater drainage in floodprone areas throughout the Village

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (High/Med/Low)	High	

Name of Jurisdiction:	Pelham Manor (V)
Action Number:	VPH-11
Action Name:	Work with NYSDOT to improve stormwater drainage in floodprone sections

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm, Severe Winter Storm
Specific problem being mitigated:	Flooding of the Hutchinson River Parkway which is an evacuation route in the Village
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Improve stormwater drainage
	2. Do nothing – current problem continues
	3. No other feasible options were identified
Action/Project Intended for Implementation	
Description of Selected Action/Project	Work with NYSDOT to improve stormwater drainage in flood-prone sections of the Hutchinson River Parkway, as it is one of the Village's evacuation routes.
Mitigation Action/Project Type	SIP
Objectives Met	1, 2
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village, County and NYSDOT
Local Planning Mechanism	Stormwater Management
Potential Funding Sources	Village
Timeline for Completion	Short Term / DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (next page)

Action Number:

VPH-11

Action Name:

Work with NYSDOT to improve stormwater drainage in floodprone sections

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (High/Med/Low)	Medium	