



9.20 Village of Huntington Bay

This section presents the jurisdictional annex for the Village of Huntington Bay. 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 Village participated in the planning process; an assessment of the Village of Huntington Bay’s risk and vulnerability; the different capabilities utilized in the Village; and an action plan that will be implemented to achieve a more resilient community.

9.20.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Village of Huntington Bay’s hazard mitigation plan primary and alternate points of contact.

Table 9.20-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Gail Devol, Village Administrator Address: 244 Vineyard Road Huntington Bay, NY 11743-0873 Phone Number: (631) 427-2843 Email: gdevol@huntingtonbay.org	Name/Title: Christopher Jack, Police Chief Address: 244 Vineyard Road Huntington Bay, NY 11743-0873 Phone Number: (631)-427-2020 Email: cjack@huntingtonbay.org
NFIP Floodplain Administrator	
Name/Title: Bob Kocis, Building Inspector, Village Engineer Address: 244 Vineyard Road Huntington Bay, NY 11743-0873 Phone Number: (631)-427-2843 Email: bkocis@huntingtonbay.org	

9.20.2 Municipal Profile

The Village was incorporated in 1924 and has approximately 600 homes and 1 yacht club, 1 beach and tennis club and five beach associations.

The Village of Huntington Bay is a residential community approximately 1.2 square miles in size. The Village is located along the water (Huntington Bay) in the northwest section of Suffolk County within the Town of Huntington.

The local governing body consists of a mayor and 4 trustees who will be responsible for the adoption and implementation of this Plan.

The Village of Huntington Bay enjoys a moderate climate with average low temperatures in the 30’s degrees Fahrenheit (°F) and average high temperatures in the mid 70’s (°F). Precipitation averages between 3.0 to 4.5 inches per month, receiving the highest amount of precipitation during the spring (March through May). On average, the Village receives over 28 inches of average snow fall per year, with highest accumulations in January. The humidity ranges between 55 and 80% throughout the year.

According to the U.S. Census, the 2010 population for the Village of Huntington Bay was 1,425. The estimated 2017 population was 1,366, a 4.1 percent decrease from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 3.0 percent of the population is 5 years of age or younger and 29.0 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.



9.20.3 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 9.20-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. The figures at the end of this annex illustrate the geographically-delineated hazard areas and the location of potential new development, where available. The recent and anticipated development depicted on these figures excludes the Suffolk County wastewater upgrades; refer to Section 4 (County Profile) for additional information on this development.

Table 9.20-2. Recent and Expected Future Development

Type of Development	2014		2015		2016		2017		2018		2019	
Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)												
	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA	Total	Within SFHA
Single Family	0	N/A	0	N/A	2	N/A	2	N/A	1	N/A	1	N/A
Multi-Family	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A	0	N/A
Other (commercial, mixed-use, etc.)	0	N/A	0	N/A	0	N/A	0	N/A		N/A		N/A
Total Permits Issued	0	N/A	0	N/A	2	N/A	2	N/A	1	N/A	1	N/A
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												
None Identified												
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years												
None Anticipated												

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.20.4 Capability Assessment

The Village of Huntington Bay 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 fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.



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 Capability Assessment (Section 9.20.4). The Village of Huntington Bay identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. Appendix G provides the results of the planning/policy document review and the answers to integration survey questions.

Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Huntington Bay and where hazard mitigation has been integrated.

Table 9.20-3. Planning, Legal, and Regulatory Capability

	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						Yes	If no - can it be a mitigation action?
Codes, Ordinances, & Requirements							
Building Code	Yes	New York State building code. Chapter 9, Section 9-1. Adopted July 1967	Local	Village, Building Inspector	Yes	Yes	-
Comment: Chapter 9 of the Village code regulates construction. The Board of Trustees of the Village of Huntington Bay hereby accepts the applicability of the State Building Construction Code for the Village of Huntington Bay, to become effective in said Village of Huntington Bay on the first day of July 1967, in accordance with the provisions of Section 374-a of the Executive Law.							
Zoning Code	Yes	Chapter 91 of Village Code. Adopted December 1935	Local	Village, Building Inspector, Zoning Board of Appeals	No	Yes	-
Comment: The purposes of this chapter are to lessen congestion in the streets; to secure safety from fire, flooding, panic or other disasters; to provide adequate light and air; to prevent the overbuilding of land to avoid undue concentration of population; to protect and preserve waterfront areas; and to facilitate the adequate provision of water supply and sewage disposal. In making any determination pursuant to this chapter, the Zoning Board of Appeals and the Village Board of Trustees shall observe such purposes or any or all of them as may be appropriate to promote the legislative intent of this chapter.							
Subdivisions	Yes	Subdivision regulations and procedures as per Village code Chapter 77 Adopted Feb. 18, 1958	Local	Village Trustees	No	Yes	-
Comment: Chapter 77 regulates the subdivision of land within the Village.							
Stormwater Management	Yes	Chapter 73B Erosion and Sediment Control, Stormwater Management; 2008	Local	Stormwater Management Officer	Yes	Yes	-
Comment: The purpose of this chapter is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction and to address the findings of fact in § 73B-3, 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 the SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s), Permit No. GP-02-02, as amended or revised; 							



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	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated?	
						If no - can it be a mitigation action?	
<ul style="list-style-type: none"> Require land development 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, as amended or revised; Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and stream bank erosion and maintain the integrity of stream channels; Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality; Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and <p>Reduce stormwater runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety.</p>							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment:							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	Yes	-
Comment:							
Growth Management	No	-	-	-	Yes	-	-
Comment:							
Site Plan Review	Yes	Site plan review as per Village code.	Local	Site Plan Review Board	No	Yes	-
Comment: Site plan review as per Village code.							
Environmental Protection	Yes	Chapter 19 Waterfowl and Goose Feeding, Chapter 23 Environmental Quality Review, Chapter 53 Open Development Areas, Chapter 87 Waterways and Watercourses, Chapter 89 Wetlands Preservation	Local	Village Trustees	Yes	Yes	-
<p>Comment: Chapter 23 was adopted pursuant to the State Environmental Quality Review Act, Part 617 of Title 6 of the New York Codes, Rules and Regulations (NYCRR) and the statutory authority of the Environmental Conservation Law, § 8-0113. The purpose of this chapter is to implement the procedures and requirements of the State Environmental Quality Review Act. The Board of Trustees of the Incorporated Village of Huntington Bay is hereby designated as the local agency of such Village to implement the provisions of Article 8 of the Environmental Conservation Law (Environmental Quality Review), and, in the course of such implementation, is authorized to consult for technical assistance with the Village Engineer and conservation-minded and experienced Village residents and to engage in municipal cooperation with the Department of Environmental Conservation of the Town of Huntington.</p> <p>Chapter 89 Wetlands Preservation: It is declared to be the public policy of the Board of Trustees of the Incorporated Village of Huntington Bay to conserve freshwater wetlands and the benefits derived therefrom, to prevent the despoliation and destruction of freshwater wetlands and to regulate the development of such wetlands in order to secure the natural benefits of freshwater wetlands, consistent with the general welfare and beneficial economic, social and agricultural development of the Incorporated Village of Huntington Bay. It is further declared to</p>							



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						If no - can it be a mitigation action?	
be the policy of the Board of Trustees of said village to exercise its authority pursuant to Article 24 of the State Environmental Conservation Law.							
Flood Damage Prevention	Yes	Village Code Chapter 34	Local	Building Inspector and/or Village Engineer	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Yes	-
<p>Comment: It is the purpose of this chapter to promote the public health, safety and general welfare and to minimize the public and private losses due to flood conditions in specific areas by provisions designed to:</p> <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 floodwaters. Control filing, grading, dredging and other development which may increase erosion or flood damages. Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands. Qualify and maintain participation in the National Flood Insurance Program. 							
Municipal Separate Storm Sewer System (MS4)	Yes	Chapter 73C Illicit Discharges and Connections	Local	Board of Trustees	Yes	Yes	-
<p>Comment: The Chapter compliments Chapter 75B Stormwater Management. The purpose of this chapter is to provide for the health, safety, and general welfare of the citizens of the Village of Huntington Bay through the regulation of nonstormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and state law. This chapter establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with requirements of the SPDES General Permit for Municipal Separate Storm Sewer Systems. The objectives of this chapter are:</p> <ul style="list-style-type: none"> To meet the requirements of the SPDES General Permit for Stormwater Discharges from MS4s, Permit No. GP-02-02, as amended or revised; To regulate the contribution of pollutants to the MS4 since such systems are not designed to accept, process or discharge nonstormwater wastes; To prohibit illicit connections, activities and discharges to the MS4; To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this chapter and all applicable laws; and To promote public awareness of the hazards involved in the improper discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment and other pollutants into the MS4. 							
Emergency Management	No	-	-	-	Yes	-	-
Comment:							
Climate Change	No	-	-	-	Yes	-	-
Comment:							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment:							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment:							
Fire Prevention	Yes	Chapter 32 of the Village code	Local	Fire Inspector	No	Yes	-





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						If no - can it be a mitigation action?	
Comment: The then currently duly appointed Fire Inspector of the Halesite Fire District is hereby appointed Fire Inspector of the Incorporated Village of Huntington Bay with authority to enforce the provisions of the Fire Prevention Code of the Incorporated Village of Huntington Bay.							
Steep Slopes	Yes	Chapter 73 of the Village Code	Local	Board of Trustees	No	Yes	-
Comment: The Board of Trustees hereby finds that the maintenance and protection of slope lands in the Village is essential to the public health, safety and welfare of both present and future residents of the Village and is specifically necessary to prevent soil erosion, sedimentation, the loss of protective vegetation and resultant flooding and drainage hazards, as well as to provide safe building sites with proper access thereto for pedestrian, vehicular and emergency traffic, and to preserve wildlife habitats and to protect important scenic resources, all in furtherance of state and county development policies and objectives.							
Planning Documents							
Comprehensive Plan	No	-	-	-	No	-	-
Comment:							
Capital Improvement Plan	No	-	-	-	No	-	-
Comment:							
Disaster Debris Management Plan	Yes	Suffolk County Multi-Jurisdictional Debris Management Plan	County, Local	Suffolk County FRES	No	Yes	-
Comment: This NYS and FEMA approved comprehensive Multi-Jurisdictional Debris Management Plan was developed through the cooperative efforts of Suffolk County and each of the ten (10) Towns, working together in conjunction with partners from private, state and federal agencies.							
Floodplain or Watershed Plan	No	-	-	-	No	-	-
Comment:							
Stormwater Plan	Yes	Storm water management chapter 73A Adopted Dec. 21, 2001	Local	Village	No	Yes	-
Comment: Building code. 6 inch rain fall for all impervious surfaces.							
Open Space Plan	No	-	-	-	Yes	-	-
Comment:							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment:							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment:							
Economic Development Plan	No	-	-	-	No	-	-
Comment:							
Shoreline Management Plan	No	-	-	-	Yes	-	-
Comment:							



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						If no - can it be a mitigation action?	
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment:							
Forest Management Plan	No	-	-	-	No	-	-
Comment:							
Transportation Plan	No	-	-	-	No	-	-
Comment:							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment:							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	No	-	-
Comment:							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	Suffolk County Comprehensive Emergency Management Plan (2018)	Suffolk County and Associated Jurisdictions	Suffolk FRES	Yes	Yes	-
Comment: The County Comprehensive Emergency Management Plan (CEMP) describes the emergency obligations of County government and its capability and capacity to undertake emergency assignments or acquire those resources necessary to support its emergency mission. The Concept of Operations of the CEMP describes the management of emergencies within the National Incident Management System (NIMS) and details emergency management programmatic efforts to accommodate present standards.							
Strategic Recovery Planning Report	No	-	-	-	No	-	-
Comment:							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment:							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment:							
Continuity of Operations Plan	Yes	Continuity of Operations Plan	Local	Police Department	No	Yes	2020-Huntington Bay-005
Comment: Plan is in need of update to address lessons learned from coronavirus pandemic.							
Public Health Plan	No	-	-	-	No	-	-
Comment:							
Other	No	-	-	-	No	-	-
Comment:							





Table 9.20-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes. Building Department. Coordinated by Village Administrator
Permits are tracked by hazard area. For example, floodplain development permits.	Yes. Deferred to Village Engineer, (Consultant)- The Building Inspector had received Flood Hazard Training.
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	No formal inventory. About 95% of the Village is developed.

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Huntington Bay.

Table 9.20-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Board of Trustees acts as as the Planning Board. There is a separate Zoning Board of Appeals. The ZBA is an independent entity. The Village Administrator acts as secretary to the Board.
Mitigation Planning Committee	No	Although the Village does not have a formal Mitigation Planning Committee, the Mayor and Board of Trustees meets once a month with the Village Eng. And the Attorney to discuss all problems, including Mitigation.
Environmental Board/Commission	No	Board of Trustees /Mayor address environmental issues
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Robo Calls if needed. Also, a link is created on web page for Village alerts.
Maintenance programs to reduce risk	Yes	Annually, the roads are swept in early spring followed by pot hole repair and storm drain cleaning program. Other maintenance is completed on an as needed basis (tree trimming/street signs).
Mutual aid agreements	Yes	There is an Inter-municipal Agreement for animal control and waterways with the Town of Huntington and a Dispatch service with the Village of Northport. There is a Memorandum of Agreement between the Village and Cornell Cooperative Extension of Suffolk County whereas a study will be conducted updating the illicit discharge inventory.
Technical/Staffing Capability		



Resources	Available? (Yes or No)	Department/ Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Planning Board, Village Engineers, Building Inspector
Engineers or professionals trained in building or infrastructure construction practices	Yes	Building Inspector
Planners or engineers with an understanding of natural hazards	Yes	Village Engineer
Staff with expertise or training in benefit/cost analysis	Yes	With an Accountant
Professionals trained in conducting damage assessments	Yes	The Village Engineer and the Trustee, appointed Road Commissioner is also a trained Engineer.
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Building Inspector
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Bob Kocis, Village Building Inspector
Surveyor(s)	No	-
Emergency Manager	Yes	Chief of Police
Grant writer(s)	No	-
Resilience Officer	No	The Village Engineer recommends resilience related improvements.
Other (this could include stormwater engineer, environmental specialist, etc.)	Yes	The Village Eng. assists with special plans/projects impacting stormwater and the environment.

Fiscal Capability

The table below summarizes financial resources available to the Village of Huntington Bay.

Table 9.20-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Yes - As Needed
Authority to levy taxes for specific purposes	Yes/Budget
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	No
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	CHIPS/Multi- Modal Program
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes, Mitigation Grant Programs in 2005

Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Huntington Bay.



Table 9.20-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes, through the Mayor
Personnel skilled or trained in website development?	Yes, have IT inhouse
Hazard mitigation information available on your website; if yes, describe	Yes. There is a Hurricane Preparedness Link on the Home Page of the Village Website. It's updated as instructed by Village Engineer. MS-4 Letter from Mayor.
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Yes. The Village has set up a mass email system to alert residents of special events and hazard alerts. Over 80% of the residents participate (Resident Contact Submission Form on the Home Page). The Mayor prepares regular information release in a "Message from the Mayor" also linked form the Home Page
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Yes. The Board of Trustees and residents coordinate relating to issues related to Hazard Mitigation. The Road Association Presidents each have a neighborhood network for receiving and disseminating information.
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	Yes. As noted above, Village Home Page, mass email system and messages alerts from the Mayor.
Warning systems for hazard events; if yes, briefly describe.	Yes. Robocall alerts.
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Yes. Children from the Village are part of Huntington School District 3 – Schools are very well versed in disaster and emergency preparedness.
Other	No

Community Classifications

The table below summarizes classifications for community programs available to the Village of Huntington Bay.

Table 9.20-8. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	NP	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	Yes	3/3	2004
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	3/9*	-
NYSDEC Climate Smart Community	NP	-	-
Storm Ready Certification	NP	-	-
Firewise Communities classification	NP	-	-
Other	No	-	-

Note:

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

* Higher classification applies to when subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.





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 ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

Table 9.20-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Coastal Erosion	Medium
Cyber Security	Medium
Disease Outbreak	Medium
Drought	Medium
Earthquake	Medium
Expansive Soils	Medium
Extreme Temperature	Medium
Flood	Medium
Groundwater Contamination	Medium
Hurricane	Medium
Infestation and Invasive Species	Medium
Nor’Easter	Medium
Severe Storm	Medium
Severe Winter Storm	High
Shallow Groundwater	Medium
Wildfire	Medium

- *High Capacity exists and is in use
- Medium Capacity may exist; but is not used or could use some improvement
- Low Capacity does not exist or could use substantial improvement
- Unsure Not enough information is known to assign a rating

The Village does not have access to resources to determine the possible impacts of climate change upon the municipality. Though the administration is supportive of integrating climate change in policies or actions, climate change is not currently being integrated into current policies/plans or actions.

9.20.5 National Flood Insurance Program

This section provides specific information on the management and regulation of the regulatory floodplain.

NFIP Floodplain Administrator (FPA)

Bob Kocis, Building Inspector/Code Enforcement Officer

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Huntington Bay.

Table 9.20-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Huntington Bay	57	89	\$2,156,020	13





Source: FEMA 2020
Notes: According to FEMA statistics as of 7/13/2020
RL Repetitive Loss

Flood Vulnerability Summary

Following Hurricane Sandy, no properties were determined to be Substantially Damaged. These determinations are not done by the Floodplain Administrator.

The Village has identified several locations that experience flooding including East Shore Road and Bay Avenue.

Resources

The community FDPO identifies the Building Inspector as the local NFIP Floodplain Administrator, currently Bob Kocis, for which floodplain administration is an auxiliary duty. NFIP administration services to the community include permit review, inspections, and education. Pamphlets have been distributed to the public in the past regarding flooding risk.

In the Village of Huntington Bay, the following educational and/or outreach activities related to the NFIP by the Building Division: pamphlets distributed to the community to educate the community of its flooding risk.

Compliance History

The Village of Huntington Bay joined the NFIP on April 18, 1983 and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The community is currently in good standing in the NFIP and has no outstanding compliance issues. The most recent Community Assistance Visit (CAV) was performed September 13, 2018. The municipality sees no specific need for a CAV at this time.

Regulatory

The communities Flood Damage Prevention Ordinance (FDPO) was last updated on August 11, 2009 and is found at Chapter 34 of the local code. Floodplain management ordinances and regulations are enforced using FEMA and New York State minimum requirements.

Community Rating System

At this time, the Village of Huntington Bay is not a member of CRS.

9.20.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Village of Huntington Bay will use information from the plan as the best available science and data for natural hazards. The capability assessment presented in this annex identifies codes, plans, and programs that provide opportunities for integration. The Suffolk County and local action plans developed for this HMP update actions related to plan integration, as well as progress on these actions, will be reported through the progress reporting process described in Volume I. New opportunities for integration also will be identified as part of the annual progress report.

Existing Integration

It is the intention of this municipality to incorporate hazard mitigation planning and natural hazard risk reduction as an integral component of ongoing municipal operations. The following textual summary and table identify relevant planning mechanisms and programs that have been/will be incorporated into municipal procedures, which may include former mitigation initiatives that have become continuous/on-going programs and may be considered mitigation “capabilities”:



- **Village Website:** The Village of Huntington Bay’s Village website (<https://www.huntingtonbay.org/>) hosts community information, news, and hazard mitigation information connected to stormwater management and hurricane preparedness.
- **Stormwater Cleaning:** The Village inspects and cleans the stormwater system annually to ensure it is clear of debris and functional.
- **Tree Trimming:** The Village works with PSEG LI to trim trees and reduce the likelihood of power outages.
- **Sand Removal:** The Village removes the buildup of sand at the gabion wall on the north end of Bay Road to reduce the likelihood of flooding.
- **Outreach and Emergency Planning:** The Village has designated, prepared, and announced Emergency Assembly points in conjunction with a public awareness plan. The Village works with Roadway Association presidents to discuss outreach and potential hazard issues.

Opportunities for Future Integration

- **Continuity of Operations Plan (2020-Huntington Bay-005):** The Village Continuity of Operations Plan could be updated to include new information. The Village will update the COOP Plan to include lessons learned from the COVID-19 pandemic.

9.20.7 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

The Village of Huntington Bay follows County and Town guidance for evacuations but makes additional decisions on evacuation at the Village level based on local conditions. Although the Village does not have official evacuation routes identified, there are numerous roadways to use for evacuation. This allows evacuees to select numerous possible routes in the event that some roadways become impassible.

Sheltering

The Village of Huntington Bay relies on the American Red Cross for sheltering.

Temporary Housing

The Village of Huntington Bay does not have any identified locations for the placement of temporary housing that would be under the Village’s jurisdiction. The Village does have several parking lots that might be useable for temporary housing but they are privately owned and would need approval for use.

Permanent Housing

The Village has not identified locations for the placement of permanent housing due to being fairly built out. Many flood-prone properties in the Village have been mitigated since Sandy and are unlikely to be interested in relocation.

9.20.8 Hazard Event History Specific to the Village of Huntington Bay



Suffolk 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 Village of Huntington Bay’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Suffolk County. Table 9.20-11 provides details regarding municipal-specific loss and damages the Village experienced during hazard events. 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 9.20-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
February 8 – 9, 2013	Severe Winter Storm and Snowstorm (FEMA DR-4111)	Yes	Low pressure that formed along the northern Gulf coast by the morning of Thursday, February 7, 2013 moved northeast to near Cape Hatteras by the morning of Friday, February 8, 2013. The low then rapidly intensified while moving northeast to a position east of Cape Cod by the morning of Saturday, February 9, 2013, producing very heavy snowfall and blizzard conditions across central and eastern Long Island on February 8th and 9th, and winter storm conditions across the rest of southeast New York.	Although the County was impacted, the Village of Huntington Bay did not report any damages.
March 14 – 15, 2017	Severe Winter Storm and Snowstorm (FEMA DR-4322)	Yes	On Tuesday, March 14th, rapidly deepening low pressure tracked up the eastern seaboard resulting in damaging winds in Suffolk County.	Although the County was impacted, the Village of Huntington Bay did not report any damages.
Feb -March 2019	Nor’easter	No	Storm Surge	\$14K damage to two sets of stairs repaired and/or replaced at the end of Vineyard Road and Locust Lane beach access points.

Notes:

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

9.20.9 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes critical facility and community lifeline flood exposure, and the hazards of greatest concern and risk to the Village of Huntington Bay. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.

A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:





- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.

Critical Facilities

New York 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 500-year 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 and community lifelines located in the 1-percent and 0.2-percent floodplain. It also summarizes if the facility is already mitigated in compliance with NYS standards (i.e., to the 0.2-percent annual chance event or worse-case scenario), or if a new mitigation action is proposed in the plan update.

Table 9.20-12. Potential Flood Losses to Critical Facilities

Name	Type	Exposure			Complies with NYS Standards	Addressed by Proposed Action
		1% Event		0.2% Event		
		A-Zone	V-Zone			
None identified at this time						

Source: Suffolk County 2020; FEMA 2009

Notes: x = Facility is located in the floodplain boundary.

*Community Lifeline

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 Suffolk 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 hazards for the Village of Huntington Bay. The Village of Huntington Bay has reviewed the county hazard risk/vulnerability risk ranking table and provided input to 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 Village of Huntington Bay indicated the following:





- The Village agreed with the calculated hazard rankings.

Table 9.20-13. Hazard Ranking

Coastal Erosion	Cyber Security	Disease Outbreak	Drought	Earthquake	Expansive Soils
Medium	Medium	Medium	Low	Low	Low
Extreme Temperature	Flood	Groundwater Contamination	Hurricane	Infestation and Invasive Species	Nor'Easter
Medium	Medium	Medium	High	Medium	High
Severe Storm	Severe Winter Storm	Shallow Groundwater	Wildfire		
Medium	Medium	Low	Low		

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- East Shore Road floods during heavy storms particularly when combined with high tides undermining the road under the guardrails. The guardrails have become compromised at different locations along the roadway. The problem is most prevalent locations are just north and south of the Huntington Yacht Club. The guardrails are leaning waterward, impacting vehicular safety and need to be replaced. Approximately \$80k has already been spent on drainage repairs in the area.
- Kings Lane has urban flooding issues due to the lack of an appropriate number of storm drains. This has led to damage of private property.

9.20.10 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 2014 HMP. Actions that are carried forward as part of this plan update are included in the updated mitigation strategy table (Table 9.20-15). 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 9.20-14. 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, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection	
VHB-1	East Shore Road Storm Drainage	Flood, Hurricane, Nor'Easter, Severe Storm, Winter Storm	Village of Huntington Bay: Ken Lindauer, Project Engineer		In Progress; have worked with engineer and contractors	Cost		1. Include in 2020 HMP 2. 3.
VHB-2	Road Improvements to North End of Locust Lane	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	Village of Huntington Bay: Ken Lindauer, Project Engineer		Complete; steps installed	Cost		1. Discontinue 2. 3. Complete
VHB-3 (previously VHB-4)	Institute a tree trimming program to help keep roadways and communications open	All Hazards	Village Huntington Bay		Ongoing Capability; contractor trims trees as needed	Cost		1. Discontinue 2. 3. Complete
VHB-4 (previously VHB-5)	Assess and prioritize options to enhance the stormwater drainage maintenance program, and implement as funding becomes available.	Flooding, Coastal Storms	Village Huntington Bay		Ongoing Capability; drains cleaned annually, filters installed to catch debris	Cost		1. Discontinue 2. 3. Complete



Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost		
VHB-5 (previously VHB-7)	Assess and prioritize options to retrofit the Police facility / Village Hall against hazard impacts, and implement as funding becomes available.	All Hazards	Village of Huntington Bay		Complete; Village Hall renovated and generator installed and maintained.	Cost		1. Discontinue 2. 3. Complete
						Level of Protection		
						Damages Avoided; Evidence of Success		
VHB-6 (previously VHB-8)	Assess and prioritize options to increase rainfall capture on village streets from one inch to two inches, and implement as funding becomes available.	Flooding, Coastal Storms, Severe Storms	Village of Huntington Bay		No Progress	Cost		1. Discontinue 2. 3. Not enough space
						Level of Protection		
						Damages Avoided; Evidence of Success		
VHB-7 (previous VHB-1)	Designate, prepare and announce Emergency Assembly points in conjunction with a public awareness plan.	All Hazards	Village of Huntington Bay		Ongoing Capability; Conference call took place with road association presidents to disperse outreach	Cost		1. Discontinue 2. 3. Ongoing Capability
						Level of Protection		
						Damages Avoided; Evidence of Success		
VHB-8 (previously VHB-11)	Work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate.	Flood, Nor'Easter, Hurricane, Severe Weather	Village Board		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing Capability
						Level of Protection		
						Damages Avoided; Evidence of Success		
VHB-9	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: <ul style="list-style-type: none"> Mitigation Education for 	All Hazards	Suffolk County, as supported by relevant local department leads		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing Capability
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	Natural Disasters (natural hazard awareness and personal scale risk reduction/mitigation public education and outreach program) <ul style="list-style-type: none"> • Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) • County-Wide Debris Management Plan • Jurisdictional Knowledge of Mitigation Needs of Property Owners (improved understanding of damages and mitigation interest/activity of private property owners) • Create a Multi-Jurisdictional Seismic Safety Committee in Suffolk County (build regional, county and local 							



Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	capabilities to manage seismic risk, both pre- and post-disaster) Alignment of Mitigation Initiatives through all levels of Government (effort to build State and Federal level recognition and support of the County and local hazard mitigation planning strategies identified in this plan).							
VHB-10	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered “critical”, and to be the first priority for clearing after an event involving downed power lines.	Severe Storm; Severe Winter Storm; Hurricane; Nor’Easter	PSEG, County		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing Capability
						Level of Protection		
						Damages Avoided; Evidence of Success		
						Level of Protection		
						Damages Avoided; Evidence of Success		



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Huntington Bay has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 HMP:

- The Village received a grant for drainage. In the Spring of 2020 storm drain on Vineyard Road near but across the street from Village Hall and the collapsed storm drain at the north end Bay Road near the gabion wall will be replaced. This will alleviate minor flooding issues in those areas.

Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Huntington Bay participated in a mitigation action workshop in June 2020 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).

Table 9.20-15 summarizes the comprehensive-range of specific mitigation initiatives the Village of Huntington Bay 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 (Mitigation Strategy), fourteen criteria are used to evaluate and prioritize each proposed mitigation action. A numeric factor is assigned (-1, 0, or 1) to each criterion to provide a relative indication of the opportunities and constraints of each action. A numerical sum of the input provides the basis of the prioritization of actions wherein each action is assigned a category of Low, Medium, or High to indicate an implementation hierarchy. A High priority action indicates the jurisdiction will prioritize its implementation and apply for funding, if needed, as opportunities become available during the plan period of performance. This does not prevent the jurisdiction from implementing other ranked actions; however, this provides a snapshot of implementation priority at the time of this plan update.

Table 9.20-16 provides a summary of the evaluation and prioritization for each proposed mitigation initiative. Refer to the action worksheets at the end of this annex for more details on the high-ranked hazards identified first for implementation.



Table 9.20-15. 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
2020-Huntington Bay-001	Stormwater Improvements on Bay Avenue	1, 2	Flood, Severe Storm	<p>Problem: Bay Avenue is prone to stormwater flooding in the area north of the intersection with Kings Lane. The roadway lacks the proper number of storm drains in this location. Flooding has resulted in damage to private properties including landscaping, trees, floodwaters entering a pool, and water entering a garage. The Village has already installed berms to prevent flooding from entering a garage and causing additional damages.</p> <p>Solution: The Village will complete a drainage study to determine the necessary upgrades to the stormwater system. The Village will then install the additional storm drains on Bay Avenue.</p>	No	May require permitting	Within 2 years	Village Engineer	\$75,000	Reduction in flooding on Bay Avenue and flood damages to private properties	HMGP, BRIC, Municipal budget	High	SIP	SP
2020-Huntington Bay-002	East Shore Road	1, 2	Flood, Severe Storm	<p>Problem: East Shore Road floods during heavy storms particularly when combined with high tides undermining the road under the guardrails. The guardrails have become compromised at two locations along the roadway, just north and south of the Huntington Yacht Club. The guardrails are leaning waterward, impacting vehicular safety and need to be replaced. Approximately \$80k has</p>	No	May require permitting	Within 2 years	Village Engineer	\$100,000	Roadway and guardrails secured and prevented from future damages.	HMGP, BRIC, Municipal budget	High	SIP	PP



Table 9.20-15. 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
				<p>already been spent on drainage repairs in the area.</p> <p>Solution: The Village will secure the embankment on East Shore Road using geomattresses or other stabilization techniques. The Village will secure the roadway and the guardrails after stabilization has been completed.</p>										
2020-Huntington Bay-003	Repetitive Loss Mitigation	1, 2	Flood, Severe Storm	<p>Problem: The Village has numerous repetitive loss properties. Although numerous properties have been mitigated via elevation, there may be additional properties that would be interested in mitigation.</p> <p>Solution: Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation. The Village will collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).</p>	No	No	Within 3 years	FPA	\$3Million	Eliminates flood damage to homes and residents	HMGP, PDM, BRIC, local cost share by residents	High	SIP	PP
2020-Huntington Bay-004	Temporary Housing Agreements	7, 8	All Hazards	<p>Problem: The Village does not have public space available for temporary housing.</p> <p>Solution: The Village Administrator will contact the County and private</p>	No	No	Within 1 year	Administration	Staff time	Establish agreements for the use of locations for	Municipal budget	High	LPR	ES



Table 9.20-15. 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
				property owners to identify opportunities for an agreement and identify locations that can be used for temporary or permanent housing.						temporary housing				
2020-Huntington Bay-005	Continuity of Operations Plan	7, 8	All Hazards	<p>Problem: The Village Continuity of Operations Plan could be updated to include new information.</p> <p>Solution: The Village will update the COOP Plan to include lessons learned from the COVID-19 pandemic.</p>	No	No	Within 3 years	Administration, Police	Staff time	Continuity of Operations improved	Municipal budget	High	LPR	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
- 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

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.

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 9.20-16. 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	Total	High / Medium / Low
2020-Huntington Bay-001	Stormwater Improvements on Bay Avenue	1	1	0	1	1	1	0	1	1	0	1	0	1	1	10	High
2020-Huntington Bay-002	East Shore Road	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Huntington Bay-003	Repetitive Loss Mitigation	1	1	1	1	1	1	0	1	1	0	1	0	1	1	11	High
2020-Huntington Bay-004	Temporary Housing Agreements	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Huntington Bay-005	Continuity of Operations Plan	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High

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



9.20.11 Proposed Mitigation Action Types

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

Table 9.20-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	LPR	FEMA			CRS					ES
		SIP	NSP	EAP	PR	PP	PI	NR	SP	
Coastal Erosion	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Cyber Security	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Disease Outbreak	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Drought	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Earthquake	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Expansive Soils	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Extreme Temperature	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Flood	2020-Huntington Bay-004, 2020-Huntington Bay-005	2020-Huntington Bay-001, 2020-Huntington Bay-002, 2020-Huntington Bay-003							2020-Huntington Bay-001, 2020-Huntington Bay-002, 2020-Huntington Bay-003	2020-Huntington Bay-004, 2020-Huntington Bay-005
Groundwater Contamination	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Hurricane	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Infestation and Invasive Species	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Nor'Easter	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Severe Storm	2020-Huntington Bay-004, 2020-Huntington Bay-005	2020-Huntington Bay-001, 2020-Huntington Bay-002, 2020-Huntington Bay-003							2020-Huntington Bay-001, 2020-Huntington Bay-002, 2020-Huntington Bay-003	2020-Huntington Bay-004, 2020-Huntington Bay-005
Severe Winter Storm	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005
Shallow Groundwater	2020-Huntington Bay-004,									2020-Huntington Bay-004, 2020-



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
	2020-Huntington Bay-005									Huntington Bay-005
Wildfire	2020-Huntington Bay-004, 2020-Huntington Bay-005									2020-Huntington Bay-004, 2020-Huntington Bay-005

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

9.20.12 Staff and Local Stakeholder Involvement in Annex Development

The Village of Huntington Bay 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 Village departments, including: Village Administrator, Police Department, Building Department. The Village Administrator represented the community on the Suffolk 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 who participated 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 9.20-18. Contributors to the Annex

Name	Title/Entity	Method of Participation
Gail Devol	Village Administrator	Primary Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Christopher Jack	Police Chief	Alternate Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Bob Kocis	Building Inspector and/or Village Engineer	NFIP Floodplain Administrator, attended plan participant meetings, provided impact data, contributed to mitigation strategy

9.20.13 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Huntington Bay that illustrate the probable areas that may be 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. The maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Huntington Bay has significant exposure.



Figure 9.20-1. Village of Huntington Bay Hazard Area Extent and Location Map

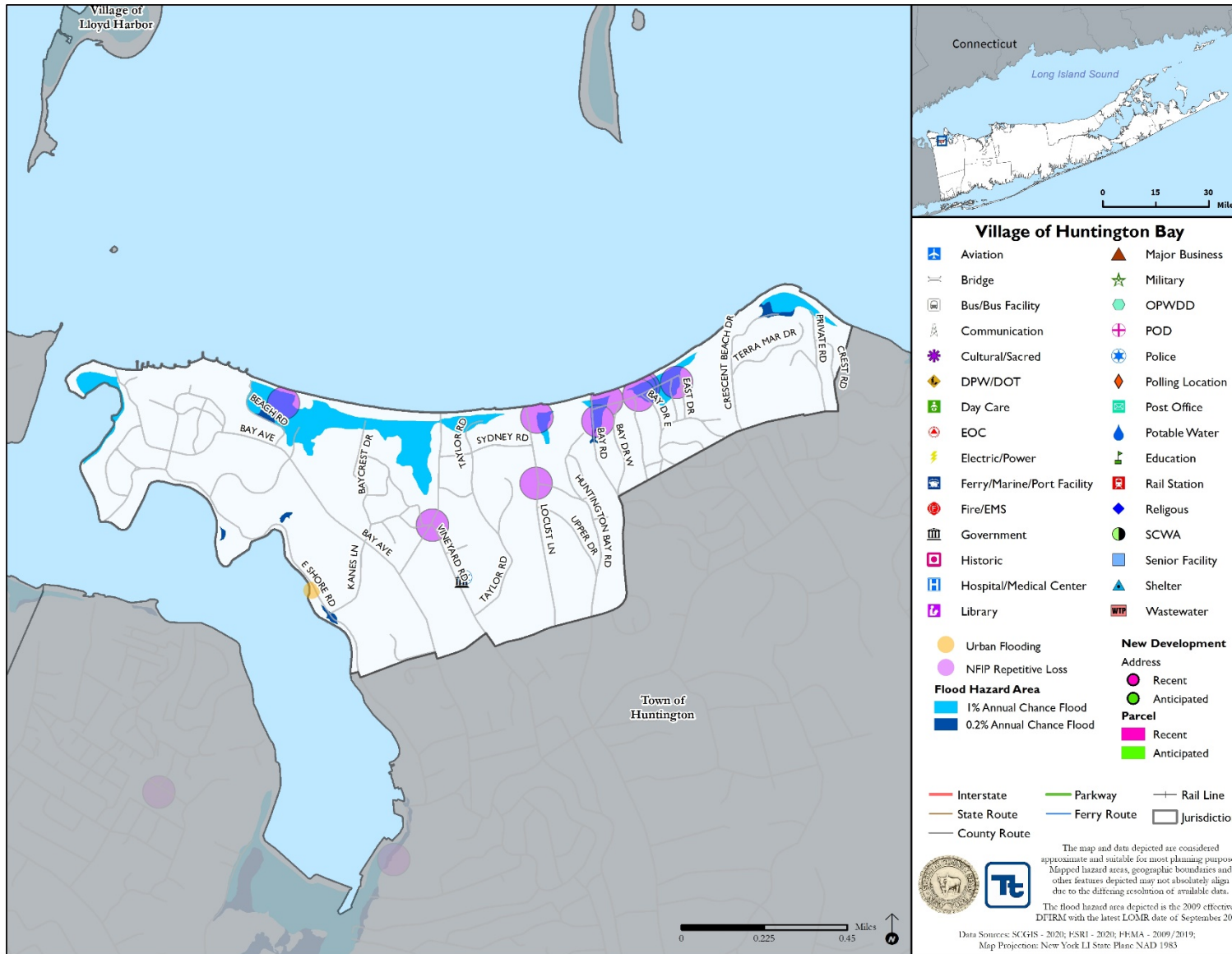




Figure 9.20-2. Village of Huntington Bay Hazard Area Extent and Location Map 2

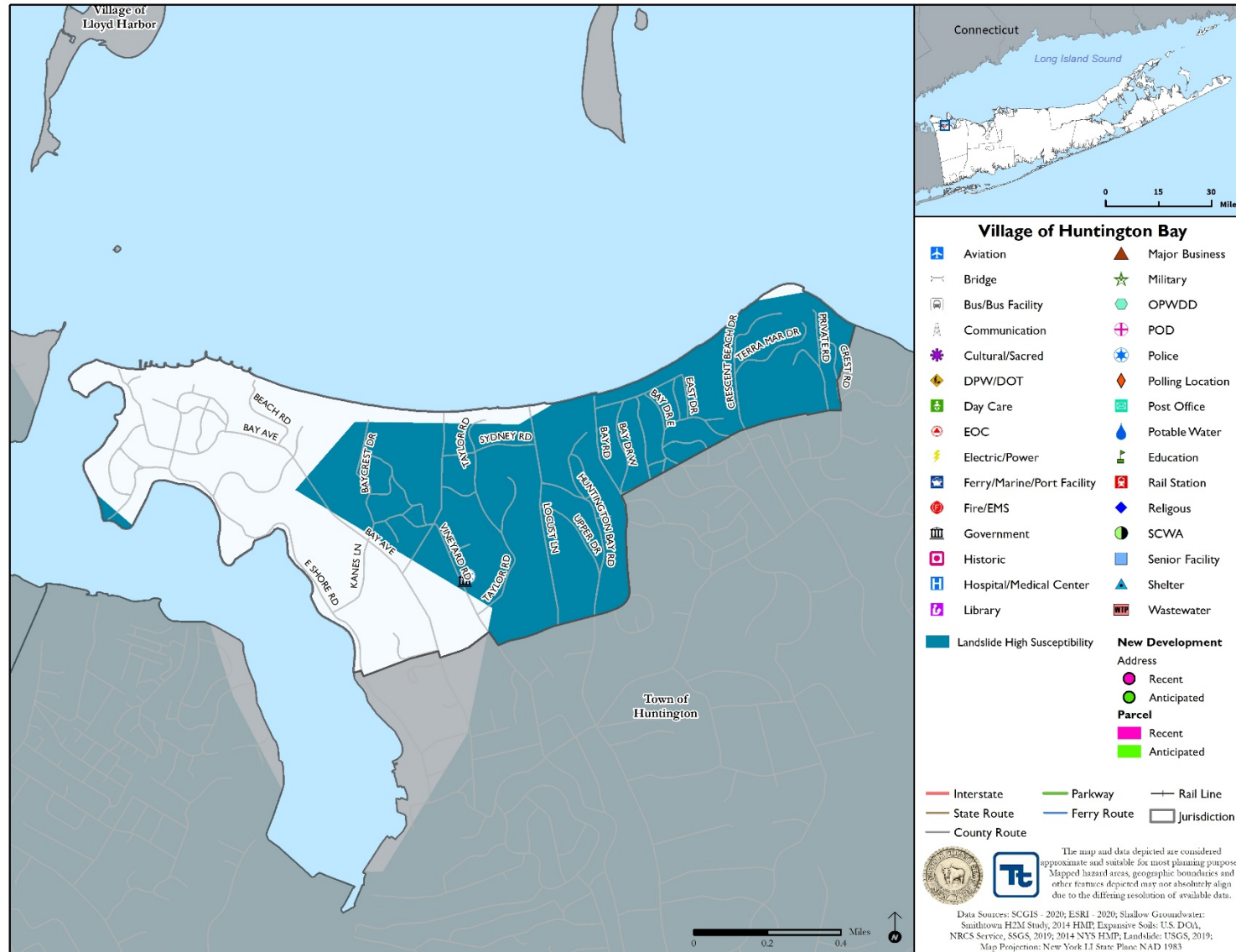




Figure 9.20-3. Village of Huntington Bay Hazard Area Extent and Location Map 3

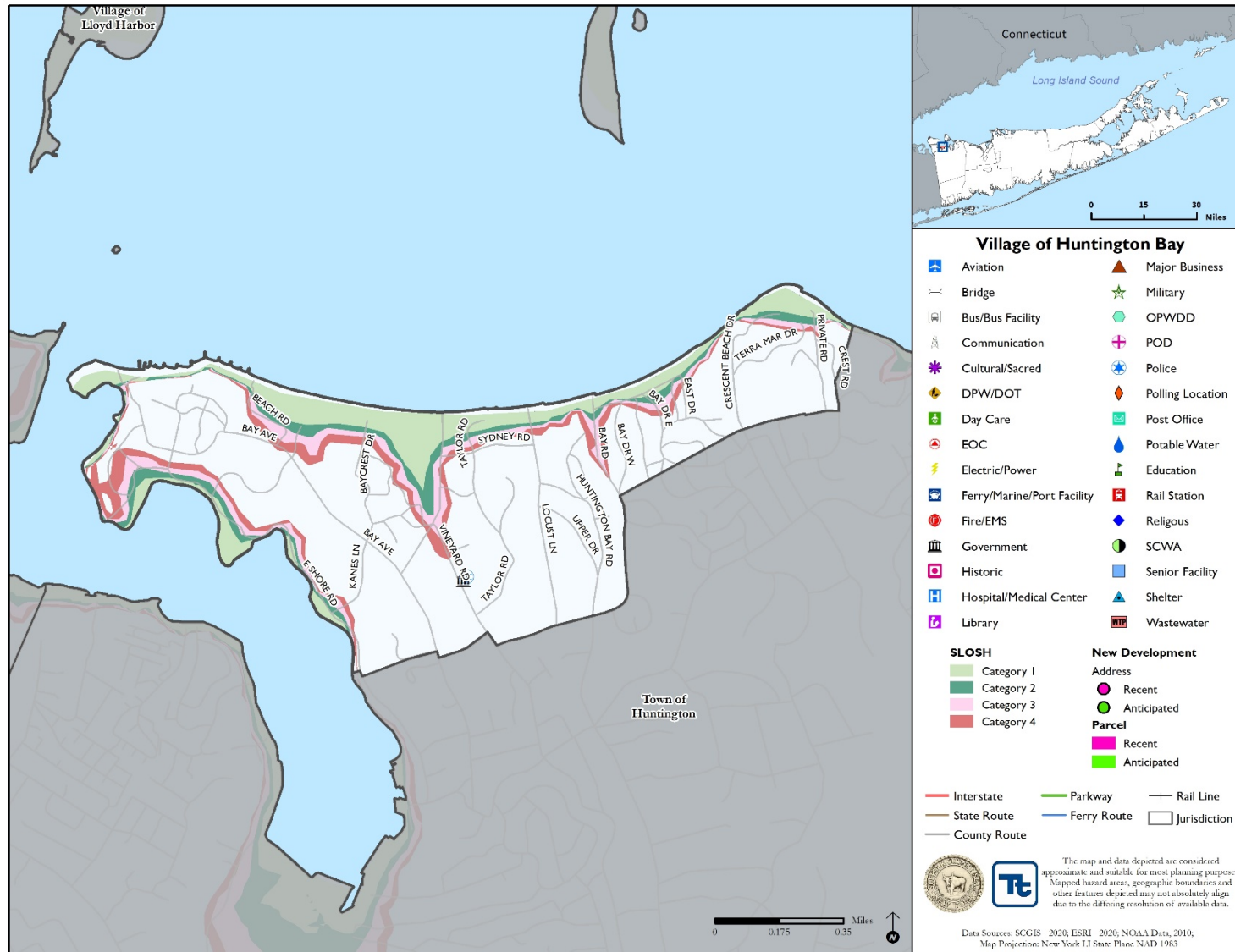




Figure 9.20-4. Village of Huntington Bay Hazard Area Extent and Location Map 4

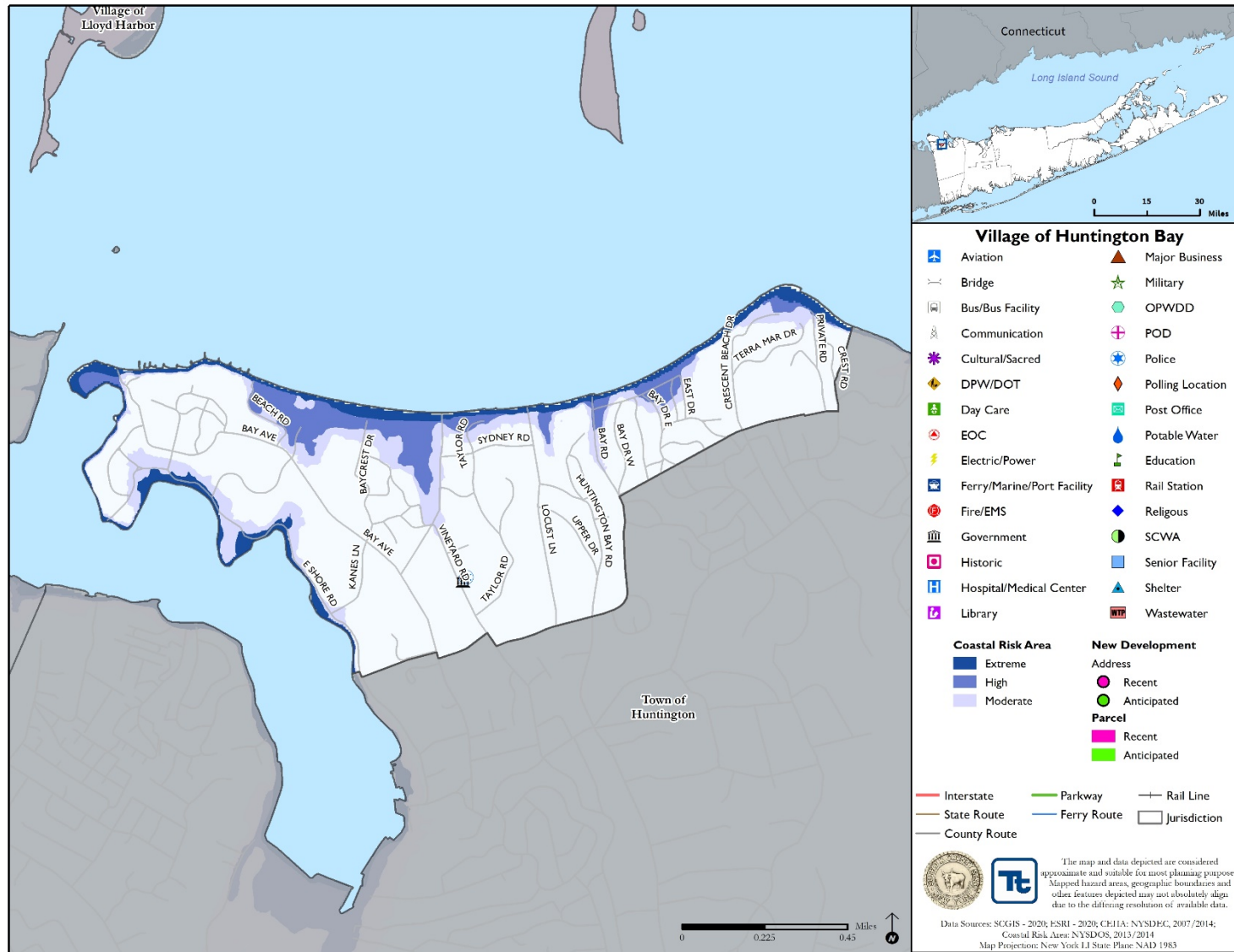




Figure 9.20-5. Village of Huntington Bay Hazard Area Extent and Location Map 5

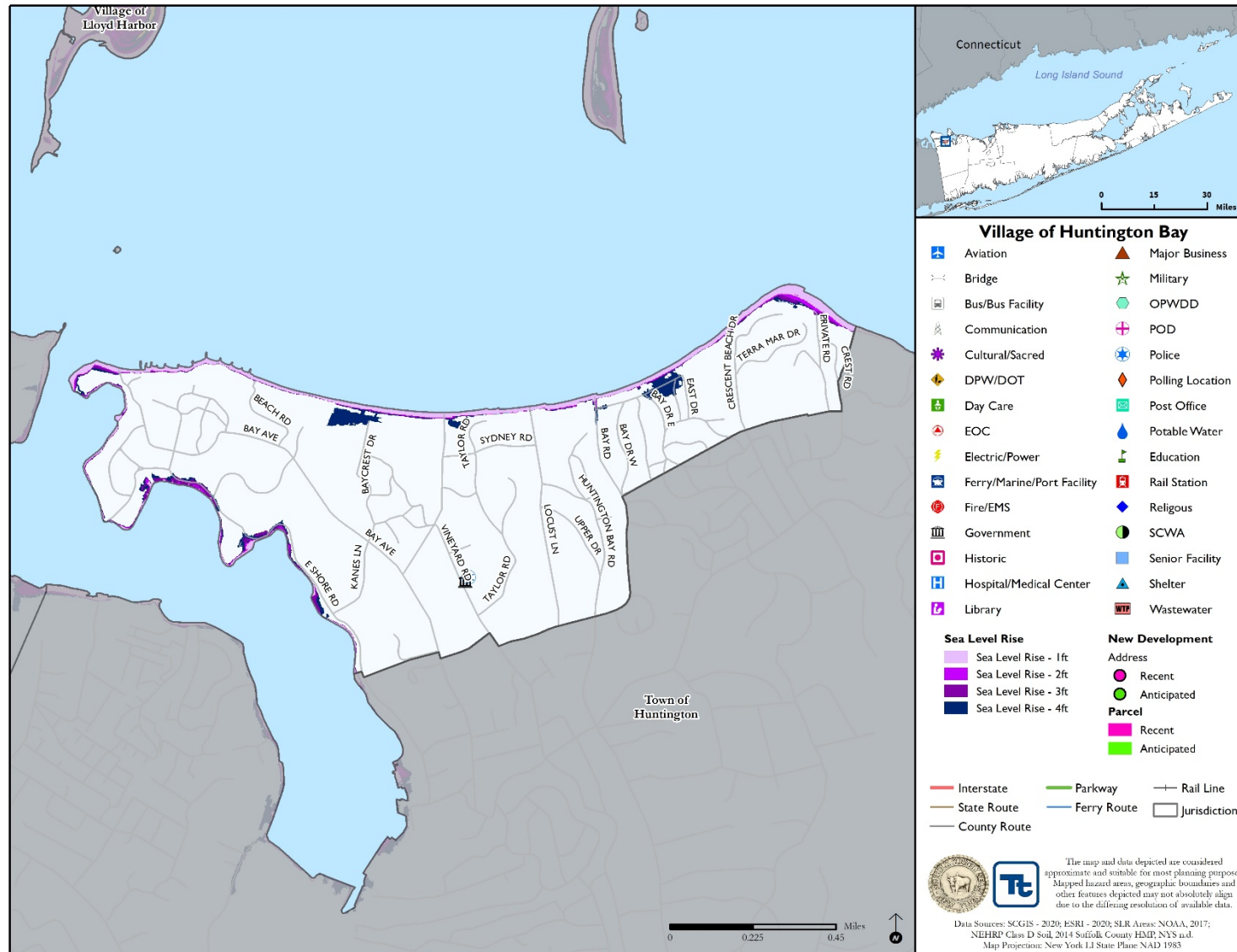
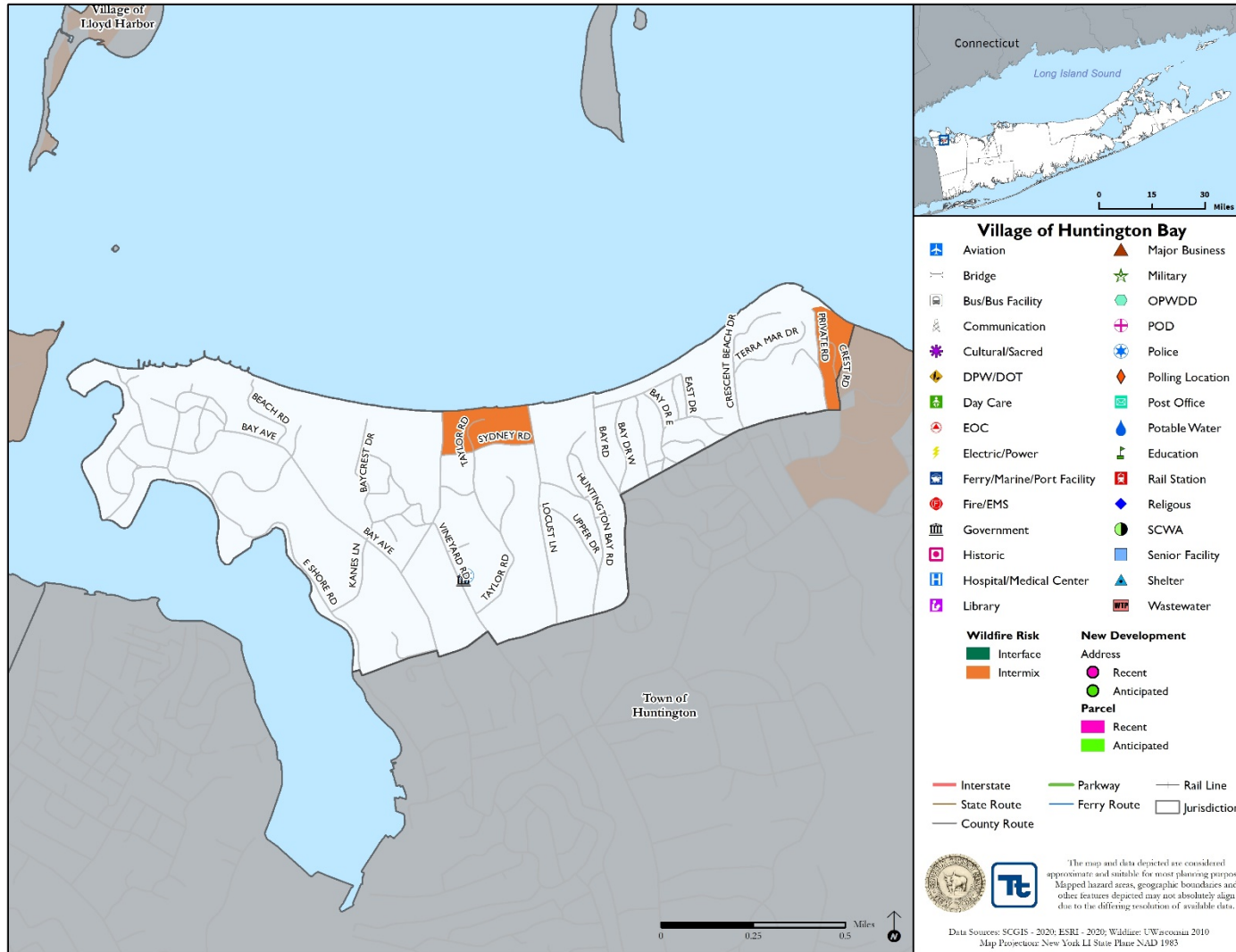




Figure 9.20-6. Village of Huntington Bay Hazard Area Extent and Location Map 6





Action Worksheet			
Project Name:	Stormwater Improvements on Bay Avenue		
Project Number:	2020-Huntington Bay-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Bay Avenue is prone to stormwater flooding in the area north of the intersection with Kings Lane. The roadway lacks the proper number of storm drains in this location. Flooding has resulted in damage to private properties including landscaping, trees, floodwaters entering a pool, and water entering a garage. The Village has already installed berms to prevent flooding from entering a garage and causing additional damages.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will complete a drainage study to determine the necessary upgrades to the stormwater system. The Village will then install the additional storm drains on Bay Avenue.		
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:	Design level to be determined by drainage study.	Estimated Benefits (losses avoided):	Reduction in flooding on Bay Avenue and flood damages to private properties
Useful Life:	50 years	Goals Met:	1, 2
Estimated Cost:	\$75,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, Municipal budget
Responsible Organization:	Village Engineer	Local Planning Mechanisms to be Used in Implementation if any:	Stormwater Management, Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Elevate roadway	\$500,000	Costly and may lead to increased drainage issues onto private property
	Berms along private properties	\$50,000	Flooding continues on roadway, require additional maintenance
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:	Stormwater Improvements on Bay Avenue	
Project Number:	2020-Huntington Bay-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects life from flooding.
Property Protection	1	Protects private properties from flood damage
Cost-Effectiveness	0	
Technical	1	Technically feasible project
Political	1	
Legal	1	The Village has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	1	Project would reduce flooding impacts
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	Within 2 years
Agency Champion	1	Engineer
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	East Shore Road		
Project Number:	2020-Huntington Bay-002		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	East Shore Road floods during heavy storms particularly when combined with high tides undermining the road under the guardrails. The guardrails have become compromised at two locations along the roadway, just north and south of the Huntington Yacht Club. The guardrails are leaning waterward, impacting vehicular safety and need to be replaced. Approximately \$80k has already been spent on drainage repairs in the area.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will secure the embankment on East Shore Road using geomattresses or other stabilization techniques. The Village will secure the roadway and the guardrails after stabilization has been completed.		
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 the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Roadway stabilized	Estimated Benefits (losses avoided):	Roadway and guardrails secured for roadway safety and prevented from future flood related damages.
Useful Life:	30 years	Goals Met:	1, 2
Estimated Cost:	\$100,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 2 years
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	HMGP, BRIC, Municipal budget
Responsible Organization:	Engineer	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Close roadway	\$500	Loss of roadway.
	Pave roadway without securing bank	\$60,000	Roadway still may be undercut in the future.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	East Shore Road	
Project Number:	2020-Huntington Bay-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects safety of roadways
Property Protection	1	Protects roadway and guardrails from future damage
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	1	
Legal	1	The Village has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	Project protects public infrastructure
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	Within 2 years
Agency Champion	1	Village Engineer
Other Community Objectives	1	Safe roadways
Total	13	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Repetitive Loss Mitigation		
Project Number:	2020-Huntington Bay-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Frequent flooding events have resulted in damages in coastal areas and other flood prone regions. This area is residential, and these properties have been repetitively flooded as documented by paid NFIP claims. Although numerous properties have been mitigated via elevation, there may be additional properties that would be interested in mitigation. It is also likely that some properties are not repetitive loss properties but are still flood prone. The Village feels that buyouts of properties is not a likely option for homeowners.		
Action or Project Intended for Implementation			
Description of the Solution:	Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation. The Village will collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).		
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 the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	1% annual chance flood event + freeboard <i>(in accordance with flood ordinance)</i>	Estimated Benefits (losses avoided):	Eliminates flood damage to homes and residents
Useful Life:	Elevation: 30 years (residential)	Goals Met:	1, 2
Estimated Cost:	\$3Million	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	6-12 months
Estimated Time Required for Project Implementation:	Three years	Potential Funding Sources:	FEMA HMGP and FMA, local cost share by residents
Responsible Organization:	NFIP Floodplain Administrator, supported by homeowners	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Elevate roads	\$500,000	Elevated roadways would not protect the homes from flood damages
	Buyouts	\$3 million	Not popular among homeowners
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Repetitive Loss Mitigation	
Project Number:	2020-Huntington Bay-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Properties moved above likely flood elevation.
Cost-Effectiveness	1	Cost-effective project
Technical	1	Technically feasible project
Political	1	
Legal	1	The Village has the legal authority to conduct the project.
Fiscal	0	Project will require grant funding.
Environmental	1	
Social	1	
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	