



9.27 Village of Saltaire

This section presents the jurisdictional annex for the Village of Saltaire. 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 Saltaire’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.

9.27.1 Hazard Mitigation Planning Team

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

Table 9.27-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Donna Lyudmer, Treasurer Address: PO Box 5551 Bayshore, NY 11706 Phone Number: 631-583-5566 Email: donna@saltaire.org	Name/Title: Meagan Leppicello, Deputy Clerk, Treasurer Address: PO Box 5551 Bayshore, NY 11706 Phone Number: 631-583-5566 Email: meagan@saltaire.org
NFIP Floodplain Administrator	
Name/Title: Mario Posillico, Village Administrator, Building Inspector Address: PO Box 5551 Bayshore, NY 11706 Phone Number: 631-583-5566 Email: mario@saltaire.org	

9.27.2 Municipal Profile

Brief History

The Village of Saltaire is a community of approximately 40 year-round residents, whose population swells during the summer season to approximately 3,000. There are 421 housing units. The Village is situated on Fire Island, one of the barrier islands of Long Island, separating the Atlantic Ocean and the Great South Bay in the Town of Islip, Suffolk County. Development for the Village of Saltaire began in 1910 and the Village was formally incorporated in 1917.

The Village is entirely situated within mapped flood and coastal erosion hazard areas, and in this small Village, there are nine different flood hazard zones. The Village was devastated by the hurricane of 1938. Four people were killed, over ninety houses were lost and an additional fifteen were severely damaged. Saltaire is located within a geographical area which is expected to be affected by at least 1 tropical storm every 5+ years, and at least 1 hurricane every 14+ years. Over the past twenty years Saltaire has been impacted by 5 major Blizzards and Winter Storms; 4 major Northeast Coastal Storms; and 4 major Hurricanes; in addition to numerous local severe storm events. The most recent event occurred on October 29, 2012, when Superstorm Sandy devastated not only the Village infrastructure but mainland access roads as well. In anticipation of the predicted violence of this storm, a mandatory evacuation was called for on October 28, 2012. Because of the devastation to infrastructure both on Fire Island and the mainland, the reoccupation of Fire Island communities was restricted for three weeks after the storm.

The Village of Saltaire is located on Fire Island within the Town of Islip and is an incorporated village.



According to the U.S. Census, the 2010 population for the Village of Saltaire was 37. The estimated 2017 population was 8, a 78.4 percent decrease from the 2010 Census. Data from the 2017 U.S. Census American Community Survey indicate that 0 percent of the population is 5 years of age or younger and 50.0 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.

9.27.3 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 9.27-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.27-1 at the end of this annex illustrates 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.

The Village of Saltaire is fairly well developed and very few building plots are available for development. Most of the new construction consists of demolition of existing houses to build new houses.

Table 9.27-2. Recent and Expected Future Development

Type of Development	2014		2015		2016		2017		2018	
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
Single Family	0	0	1	1	1	1	1	1	0	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
Total Permits Issued	0	0	1	1	1	1	1	1	0	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
Recent Major Development and Infrastructure from 2015 to Present										
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.

9.27.4 Capability Assessment

The Village of Saltaire 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 9.27.4). The Village of Saltaire 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 Saltaire and where hazard mitigation has been integrated.

Table 9.27-3. 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?	
						If no - can it be a mitigation action? If yes, add Mitigation Action #.	(Tetra Tech to complete)
Codes, Ordinances, & Requirements							
Building Code	Yes	As per Village of Saltaire Code §18.1, the Village has adopted in its code the New York State Uniform Fire Prevention and Building Code.	Local	Village of Saltaire Building Department	Yes	Yes	-
Comment:							
Zoning Code	Yes	Village of Saltaire Code §18.6	Local	Village of Saltaire Board of Trustees, Building Inspector	No	Yes	-
Comment: The purpose and intent of this Chapter is to effect a comprehensive plan for the development of the Village that will protect and preserve its unique and historical character as a residential community predominantly comprised of private single Family residences, to preserve the peace and quiet nature of the community, to allow the preservation of open spaces, to protect property owners' rights to the safe and peaceful enjoyment of their property, and to prohibit the establishment, maintenance and operation of any uses that are not consistent with the character of the Village, including but not limited to any form of transient, multi-Family residence or facility occupied for any purpose other than single Family occupancy within the residence district as established herein. It is finally the purpose and intent of this Chapter that, in order to protect and maintain the historic and traditional character of the Village, non-residential uses and structures, including but not limited to Businesses, Utilities, Private Membership Clubs, and other non-residential uses and structures, be strictly limited and regulated.							
Subdivisions	Yes	As per Village of Saltaire Code §42-7	Village	Village of Saltaire Board of Trustees	No	Yes	-
Comment:							



	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? If yes, add Mitigation Action #.	(Tetra Tech to complete)
Stormwater Management	No	-	-	-	Yes	-	-
Comment:							
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	-	-	-	No	-	-
Comment:							
Site Plan Review	Yes	As per Village of Saltaire Code §18.6, the Village of Saltaire Building Inspector has the authority to review and approve site plans.	Village	Village of Saltaire Building Department	No	Yes	-
Comment:							
Environmental Protection	No	-	-	-	Yes	-	-
Comment:							
Flood Damage Prevention	Yes	Village of Saltaire Code §28	Village	Village Building Inspector	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	Yes	-
<p>Comment: It is the purpose of this local law to promote the public health, safety, and general welfare, and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:</p> <ol style="list-style-type: none"> (1) 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; (2) require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction; (3) control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of flood waters; (4) control filling, grading, dredging and other development which may increase erosion or flood damages; (5) regulate the construction of flood barriers which will unnaturally divert flood waters or which may increase flood hazards to other lands, and; (6) qualify and maintain for participation in the National Flood Insurance Program. 							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-



	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? If yes, add Mitigation Action #.	(Tetra Tech to complete)
Comment:							
Emergency Management	No	-	-	-	Yes	-	-
Comment:							
Climate Change	No	-	-	-	Yes	-	-
Comment:							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment:							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment:							
Other Coastal Erosion Hazard Area	Yes	Chapter 20 Coastal Erosion Hazard Regulations	Village	Village of Saltaire Building Department	No	Yes	-
<p>Comment: The Village of Saltaire hereby assumes the responsibility and authority to implement and administer a coastal erosion management program within its jurisdiction pursuant to Article 34 of New York State Environmental Conservation Law. In addition, it is the purpose of this local law to:</p> <ul style="list-style-type: none"> a. Establish standards and procedures for minimizing and preventing damage to structures from coastal flooding and erosion and to protect natural protective features and other natural resources. b. Regulate in coastal areas subject to coastal flooding and erosion, land use and development activities so as to minimize or prevent damage or destruction to man-made property, natural protective features, other natural resources, and to protect human life. c. Regulate new construction or placement of structures in order to place them a safe distance from areas of active erosion and the impacts of coastal storms to ensure that these structures are not prematurely destroyed or damaged due to improper siting, as well as to prevent damage to natural protective features and other natural resources. d. Restrict public investment in services, facilities, or activities which are likely to encourage new permanent development in erosion hazard areas. e. Regulate the construction of erosion protection structures in coastal areas subject to serious erosion to assure that when the construction of erosion protection structures is justified, their construction and operation will minimize or prevent damage or destruction to man-made property, private and public property, natural protective features, and other natural resources. 							
Planning Documents							
Comprehensive Plan	Yes	Town of Islip Master Plan	Town	Town of Islip	No	Yes	-
Comment:							
Capital Improvement Plan	Yes	Resolution	Village	Village of Saltaire Board of Trustees	No	Yes	-
Comment:							
Disaster Debris Management Plan	Yes	Suffolk County Multi-Jurisdictional Debris Management Plan	County, Local	Suffolk County FRES	No	Yes	-
<p>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.</p>							
Floodplain or Watershed Plan	No	-	-	-	No	-	-





	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? If yes, add Mitigation Action #.	(Tetra Tech to complete)
Comment:							
Stormwater Plan	No	-	-	-	No	-	-
Comment:							
Open Space Plan	No	-	-	-	Yes	-	-
Comment:							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment:							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment: Wildlife Refuge is located in the Village but there is no official Habitat Conservation Plan.							
Economic Development Plan	No	-	-	-	No	-	-
Comment:							
Shoreline Management Plan	Yes	Fire Island to Montauk Point Reformulation Study	Federal	USACE.	Yes	Yes	-
Comment: The purpose of the on-going Fire Island to Montauk Point (FIMP) Reformulation Study is to identify, evaluate and recommend long-term solutions for hurricane and storm damage reduction for homes and businesses within the floodplain extending along 83-miles of ocean and bay shorelines from Fire Island Inlet to Montauk Point.							
Community Wildfire Protection Plan	No	-	-	-	No	-	-
Comment:							
Forest Management Plan	No	-	-	-	No	-	-
Comment:							
Transportation Plan	No	-	-	-	No	-	-
Comment: Transportation information located in Village Code							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment:							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	Yes, Mosquito Control Plan	Local	Village Board		No	Yes	-
Comment: The Mosquito Control Plan sets goals to control the mosquito population and prevent the spread of mosquito borne disease.							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	Yes	Suffolk County Comprehensive Emergency Management Plan (2018)	Suffolk County and Associated Jurisdictions	Suffolk FRES	Yes	Yes	-



	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? If yes, add Mitigation Action #.	(Tetra Tech to complete)
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	Administration	No	-	-
Comment:							
Public Health Plan	No	-	-	-	No	-	-
Comment: Public health initiatives but no written plan.							
Other	No	-	-	-	No	-	-
Comment:							

Table 9.27-4. 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 Inspector
Permits are tracked by hazard area. For example, floodplain development permits.	Yes. By flood zone and wetlands.
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	Built out

Administrative and Technical Capability

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

Table 9.27-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board and ZBA
Mitigation Planning Committee	No	-





Resources	Available? (Yes or No)	Department/ Agency/Position
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Warning Systems / Services (reverse 911, outdoor warning signals)	Yes	Fire sirens, electronic notification system. Website.
Maintenance programs to reduce risk	Yes	Tree trimming
Mutual aid agreements	Yes	Adjourning fire departments and Suffolk County.
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	Yes	Mario Posillico
Engineers or professionals trained in building or infrastructure construction practices	Yes	RMS Engineering
Planners or engineers with an understanding of natural hazards	Yes	Mario Posillico
Staff with expertise or training in benefit/cost analysis	Yes	Mario Posillico
Professionals trained in conducting damage assessments	Yes	Use Staff then hire consultants.
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Outside Consultant
Scientist familiar with natural hazards	Yes	Mario Posillico
NFIP Floodplain Administrator (FPA)	Yes	Per Village of Saltaire Code §28, the Building Inspector is designated NFIP FPA; Currently served by Mario Posillico.
Surveyor(s)	Yes	Contracts
Emergency Manager	Yes	Mario Posillico, Vern Henriksen
Grant writer(s)	Yes	Donna Lyudmer
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

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

Table 9.27-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes
Capital improvements project funding	Opportunity included in existing budget if necessary
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes



Financial Resources	Accessible or Eligible to Use (Yes/No)
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	Yes

Education and Outreach Capability

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

Table 9.27-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	All staff
Personnel skilled or trained in website development?	Yes
Hazard mitigation information available on your website; if yes, describe	Yes, link to the 2014 HMP on the website.
Social media for hazard mitigation education and outreach; if yes, briefly describe.	No
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Citizens Advisory group
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	No
Warning systems for hazard events; if yes, briefly describe.	Fire sirens, electronic notification system. Website.
Natural disaster/safety programs in place for schools; if yes, briefly describe.	No schools in the village.
Other	No

Community Classifications

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

Table 9.27-8. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	NP	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	NP	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	Yes	3	May 2017
NYSDEC Climate Smart Community	NP	-	-
Storm Ready Certification	NP	-	-
Firewise Communities classification	NP	-	-
Other	NO	-	-

Note:

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





Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current 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 9.27-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Coastal Erosion	Medium
Cyber Security	Medium
Disease Outbreak	Low
Drought	Medium
Earthquake	Low
Expansive Soils	Medium
Extreme Temperature	Medium
Flood	Medium
Groundwater Contamination	Low
Hurricane	Medium
Infestation and Invasive Species	Medium
Nor’Easter	Medium
Severe Storm	Medium
Severe Winter Storm	Medium
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 of Saltaire has access to resources to determine the possible impacts of climate change upon the municipality. The administration is supportive of integrating climate change in policies or actions. Climate change is already being integrated into current policies/plans or actions (projects/monitoring) within the municipality through the elevation of the village’s boardwalks.

9.27.5 National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

Mario Posillico, Building Inspector

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Saltaire.

Table 9.27-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Village of Saltaire	316	383	\$15,180,594	13





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

Flood Vulnerability Summary

Almost every home in the Village of Saltaire sustained some type of damage following Hurricane Sandy. 300 homes had electrical damage and 200 of the 400 homes sustained physical damage to varying degrees. Since Sandy, 31 private homes have been reposted.

The Building Inspector completes the Substantial Damage Estimates (SDE). This involves requiring an independent third-party appraisal of the value of the structures prior to the event, and then an independent engineer's cost estimate of the work necessary to repair the damage. A comparison of the two data sets will help make a substantial damage determination.

All damaged homes filed for flood damage permits following Hurricane Sandy. This allowed the Village to create a method for tracking homes filing for flood damage. Prior to Hurricane Sandy there was no method for keeping track of this damage. Only 1 SDE was made thus far by the Building Inspector following Hurricane Sandy. 2-4 more determinations are expected to be made.

The Village does not maintain a list of property owners that are interested in mitigation.

Resources

The community FDPO identifies the Building Inspector as the local NFIP Floodplain Administrator, currently Mario Posillico, for which floodplain administration is an auxiliary duty.

Duties and responsibilities of the NFIP Administrator are permit review, inspections, damage assessments, record-keeping, and education and outreach. GIS services are provided by Town of Islip if needed.

Mario Posillico feels he is adequately supported and trained to fulfill his responsibilities as the municipal floodplain administrator. Mario Posillico is a certified floodplain manager and attends regular continuing education programs for code enforcement. Seminars and training provided by DEC are helpful in keeping up to speed with State expectations.

Reminders are sent to the community regarding the requirements of flood insurance. Following Hurricane Sandy, information was distributed regarding the implications of higher flood insurance and Biggert-Waters 2012.

Duties and responsibilities of the NFIP Administrator are permit review, inspections, damage assessments, record-keeping, and education and outreach. GIS services are provided by Town of Islip if needed.

Funding and limited access on smaller plots to access higher buildings are current barriers to running an effective floodplain management program in the Village of Saltaire.

Compliance History

The Village of Saltaire joined the NFIP on May 28, 1971, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The community's Flood Damage Prevention Ordinance (FDPO), found at Chapter 28 of the local code, and was last updated on November 20, 2006.



The community is currently in good standing in the NFIP and has no outstanding compliance issues. Village of Saltaire has completed Community Assistance Visits (CAV), with the most recent visit completed September 25, 2017. In New York, DEC assists with the implementation of the NFIP.

Regulatory

The community's Flood Damage Prevention Ordinance (FDPO) is found at Chapter 28 of the local code. Village of Saltaire meets the minimum floodplain requirements and ordinances set forth by FEMA and New York State. Plan review and flood mitigation are considered by the Zoning Board for variance applications.

Community Rating System

The Village is not currently interested in joining the Community Rating System program due to the staffing and financial burden.

9.27.6 Integration with Other Planning Initiatives

As this HMP update is implemented, the Village of Saltaire 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 Saltaire hosts a village website (<http://saltaire.org/index.htm>) which includes public notices, the mosquito control plan, and the most recent approved village annex in the Suffolk County Hazard Mitigation Plan.
- **Emergency Response Plan:** The Village developed and adopted an Emergency Response Plan in order to outline in detail the functions and responsibilities of each Town department during a large scale natural or man-made emergency, so that response to emergencies lessens the severity of a disaster on property and the population. This plan includes many pre-event actions that both mitigate disaster losses, and directly supports recovery efforts.

Opportunities for Future Integration

None identified.

9.27.7 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 Saltaire follows the County’s guidance for evacuation. During a hazard of any significance that could cause the type of damage that would create displacement, Fire Island would be under mandatory evacuation orders, and all of the Village of Saltaire would be totally evacuated, as happened in Sandy. Evacuation occurs via public ferry transportation from the ferry terminal in Saltaire to the ferry terminal in Bay Shore, NY.

Sheltering

Due to the circumstances of being on a barrier island, the Village of Saltaire does not have any permanent shelters for either displaced persons or pets. For sudden events where evacuation may not be possible, the Village Hall, the Saltaire Fire Company, and the Medical Clinic would serve as temporary areas for displacement until evacuation can occur.

Temporary Housing

As all available land in the Village of Saltaire are located within the Special Flood Hazard Area, there are no appropriate locations for the placement of temporary housing. The Village works with the County to identify appropriate locations as necessary.

Permanent Housing

All available land for permanent housing is limited to individual lots. However, all lots are located in the Special Flood Hazard Area and would not be appropriate for relocation or rebuilding.

9.27.8 Hazard Event History Specific to the Village of Saltaire

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 Saltaire’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 9.27-11 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 9.27-11. 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	Although the County was impacted, the Village of Saltaire did not report damages.



Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
			New York.	
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 Saltaire did not report damages.
June 30, 2019	Straight Line Wind event	No	A straight line wind event resulted in flipped boats in the bay.	Numerous water rescues were needed.

Notes:

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

9.27.9 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 Saltaire. 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 9.27-12. 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			
Saltaire Ferry Terminal*	Ferry/Marine	-	X	X	Yes	-

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 Saltaire. The Village of Saltaire 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 Saltaire indicated the following:

- The Village agreed with the calculated hazard rankings.

Table 9.27-13. Hazard Ranking

Coastal Erosion	Cyber Security	Disease Outbreak	Drought	Earthquake	Expansive Soils
High	Medium	Medium	Low	Medium	Low



Extreme Temperature	Flood	Groundwater Contamination	Hurricane	Infestation and Invasive Species	Nor'Easter
Medium	High	Medium	High	Medium	High

Severe Storm	Severe Winter Storm	Shallow Groundwater	Wildfire
Medium	Medium	Low	Medium

Identified Issues

The municipality has identified the following vulnerabilities within their community:

In addition to those identified above, the municipality has identified the following vulnerabilities:

- Flooding of sanitary systems leads to groundwater contamination.
- Tidal flooding is a constant and worsening issue. Floodwaters in the bay are starting to move in from the west which has not happened in the past.
- All of Fire Island is located in the Special Flood Hazard Area.
- Overhead electrical transmission lines are at risk.
- The Public Safety and Medical Clinic Building at 14 Bay Prom should be expanded to allow for better emergency operations and the creation of a cooling center.
- The 15,000 gallon hydronautical water tank at Well #1 at the Saltaire Maintenance Yard is in need of replacement to be more flood resistant and assure continued operations for domestic serve and fire-fighting before, during and after storm events.
- The Saltaire Fire House was constructed prior to current flood maps and is now located below the base flood elevation.
- Rising sea levels and groundwater have impacts on sanitary systems and drinking water.

9.27.10 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 9.27-15). 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 9.27-14. 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	Damages Avoided; Evidence of Success	
SAL-1	Sandy HMGP LOI #222 – Flood proof existing access thoroughfares.	Flood Damage	Village of Saltaire		Complete	Cost		1. Discontinue 2. 3. Complete
SAL-2	Assess and prioritize options to maintain adequate protective features along the Atlantic Ocean facing dunes and the beach system, and implement as funding becomes available.	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire	Village of Saltaire		In Progress	Cost		1. Include in 2020 HMP 2. 3.
SAL-3	Reconstruct all walkways, both boardwalk and concrete, with flood-resistant design preventing flotation and upheaval.	Storm, Flood	Village of Saltaire		Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing capability
SAL-4	Reconstruct the Clam Pond Cove Peninsula to mitigate Bay flooding, and implement as funding becomes available.	Storm, Flood	Village of Saltaire		In Progress	Cost		1. Include in 2020 HMP 2. 3.
SAL-5	Install a water tank at well #2 on Broadway to maintain adequate fire flow in case of damage or outage at well #1.	Storm, Flood	Village of Saltaire		No Progress	Cost		1. Include in 2020 HMP 2. 3.
SAL-6	Assess and prioritize options to relocate the maintenance and water buildings on Beacon Walk away from the Atlantic Ocean, and	Coastal Erosion, Expansive Soils, Flood, Hurricane,	Village of Saltaire		No Progress	Cost		1. Include in 2020 HMP 2.



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.
						Evidence of Success		
	implement as funding becomes available.	Nor'Easter, Severe Storm, Shallow GW Flooding				Evidence of Success		3.
SAL-7	Upgrade the Lighthouse Promenade water main to 12" diameter and all other water mains to a minimum of 6" diameter to provide adequate water flow.	All Hazards	Village of Saltaire		Complete; Lighthouse Prom Water Main complete 5-31-2020. Broadway and Bay Prom Sections improved with 8 inch water mains – all resulting in significant improvement to both domestic water quality and firefighting capability. To be Included in 2020 HMP	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Complete
SAL-8	Assess and prioritize options to elevate all municipal-owned buildings, and implement as funding becomes available.	Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW Flooding	Village of Saltaire		In Progress	Cost		1. Include in 2020 HMP
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3.
SAL-9	Provide back-up generation to all municipal buildings	All Hazards	Village of Saltaire		In Progress	Cost		1. Include in 2020 HMP
						Level of Protection		2. One Additional Back-Up Generator is planned for 2021 with Fire Island Reconstruction Zone Funding
						Damages Avoided; Evidence of Success		3.



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 Damages Avoided; Evidence of Success	
SAL-10	Assess and prioritize options to reduce public health risks from tick-borne and mosquito-contracted diseases, and implement as funding becomes available.	Flood, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW Flooding	Village of Saltaire		Ongoing Capability			1. Discontinue 2. 3. Ongoing capability
SAL-11	Assess and prioritize options to protect critical businesses, and implement as funding becomes available.	Coastal Erosion, Earthquake, Flood, Groundwater Contamination, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Village of Saltaire		Complete			1. Discontinue 2. 3. Complete
SAL-12	Assess and prioritize options to protect emergency access routes, and implement as funding becomes available.	Coastal Erosion, Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW Flooding, Wildfire, Winter Storm		Village of Saltaire	Complete			1. Discontinue 2. 3. Complete
SAL-13	Assess and prioritize options to protect the bayside shoreline, and implement as funding becomes available.	Coastal Erosion, Drought, Flood, Hurricane, Nor'Easter, Severe Storm	Village of Saltaire		In Progress			1. Include in 2020 HMP 2. 3.
SAL-	Assess and prioritize options	Coastal	Village of		In Progress	Cost		1. Include in 2020 HMP



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.
						Level of Protection	Damages Avoided; Evidence of Success	
14	to repair and improve docks, and implement as funding becomes available.	Erosion, Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Winter Storm	Saltaire			Level of Protection		2.
						Damages Avoided; Evidence of Success		3.
SAL-15	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 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.	Flood, Coastal Erosion, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	Town/Village Engineering via NFIP FPA) with NYSOEM, FEMA support		In Progress	Cost		1. Include in 2020 HMP
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3.
SAL-16	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: • Mitigation Education for Natural Disasters (natural hazard awareness and	All Hazards	Suffolk County, as supported by relevant local department leads,		Ongoing Capability	Cost		1. Discontinue
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Ongoing Capability



Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, 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.
	<p>personal scale risk reduction/mitigation on public education and outreach program)</p> <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 capabilities to manage seismic risk, both pre- and post-disaster) • Alignment of 						



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.
	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).							
SAL-17	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
						Level of Protection		2.
						Damages Avoided; Evidence of Success		3. Ongoing capability



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Saltaire 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:

- Generator through the Fire Island Reconstruction Zone to back up Well #2.

Proposed Hazard Mitigation Initiatives for the HMP Update

The Village of Saltaire 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 9.27-15 summarizes the comprehensive-range of specific mitigation initiatives the Village of Saltaire 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 9.27-16 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 9.27-15. 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-Saltaire-001	Bury Overhead Strategically Located Electrical Transmission Lines.	2, 8	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	<p>Problem: High winds can knock out power lines. The Village has begun to bury some utilities. Streetlight wiring at the bayfront has already been buried at this time.</p> <p>Solution: The Village will work to bury utility lines, Village wide.</p>	No	None	5 years	Administration	\$5-10 million	Protect key electrical transmission lines and greatly reduce the loss of power during storm events.	HMGP, Private funds, Village budget	High	SIP	PP
2020-Saltaire-002	Reconstruct and expand the Public Safety and Medical Clinic Building	1, 2, 7	All Hazards	<p>Problem: The Public Safety and Medical Clinic at 14 Bay Prom is identified for use for emergency operations, sheltering, and addressing public health.</p> <p>Solution: The expanded and upgraded building will assist in: Emergency Operations and Public Health issues that may arise; Create a cooling center.</p>	Yes	None	2 years	Administration	\$1.75 million	Greatly mitigate the impact and cost of disaster and recovery.	FEMA HMGP, PDM, BRIC, Village budget	High	SIP	ES
2020-Saltaire-003	Replace the water tank at Well #1	1, 2, 7, 8	Flood, Wildfire, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	<p>Problem: Upgraded tanks are needed to provide better flood resistance capabilities and assure continued operations for domestic serve and fire-fighting before, during and after storm events.</p> <p>Solution: Replace the 15,000 Gallon Hydronautical water tank at Well #1 at the Saltaire Maintenance Yard.</p>	Yes	None	5 years	Maintenance	\$700,000	Upgraded tanks will provide better flood resistance capabilities and assure continued operations for domestic serve and fire-fighting before, during and after storm events.	HMGP, BRIC, CDBG, Village budget	High	SIP	PP
2020-Saltaire-004	Elevate the Saltaire Firehouse	1, 2, 7	Flood	<p>Problem: The building when first constructed was above the Flood Level, but the new flood maps have put it below the flood level.</p> <p>Solution: Elevate the Firehouse at 105 Broadway above the 500-year flood</p>	Yes	None	5 year	Fire Company	\$1 million	Continuity of services, mitigate potential flood damages	FEMA HMGP and PDM, BRIC, USDA Community	High	SIP	PP





Table 9.27-15. 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
				level. The elevation will include both the community room and apparatus room.							Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget			
2020-Saltaire-005	Convert to Nitrogen reducing Sanitary Systems	3, 4, 5, 6	Flood, Groundwater Flooding	<p>Problem: Sanitary systems that are not updated with nitrogen reducing technology can cause leaching of nitrogen and other sewage related contaminants into groundwater.</p> <p>Solution: The Village will conduct an outreach program to urge the conversion of all existing old-style Fire Island On-Site Sanitary systems with new Nitrogen-Reducing Alternative On-Site Systems approved by the Department of Health. This will greatly reduce nitrogen-loading into the Bay and eliminate the public health risk of bacterial contamination of flood waters.</p>	No	None	Within 2 years	Building Dept, Department of Health, Administration	\$5,000	Mitigate the Impacts of Sea-Level Rise and Rising Groundwater	Village budget	High	EAP	PI
2020-Saltaire-006	Bulkhead Improvements	2, 5	Coastal Erosion, Flood, Groundwater Flooding	<p>Problem: Open sections of bulkhead result in flooding of bay water into the Village and runoff of groundwater and untreated stormwater into the bay.</p> <p>Solution: Raise and close-off Bayfront Bulkheads to lessen Bay Flooding and ground water intrusion into the bay. 4 main sections. Intermittent cuts. 100 feet each section.</p>	No	May require updated permits	2 years	Administration, Maintenance	\$100,000	Mitigate the Impacts of Sea-Level Rise and Rising Groundwater	HMGP, PDM, BRIC, Village budget	High	SIP	PP



Table 9.27-15. 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-Saltaire-007	Repetitive Loss Properties	1, 2	Flood; Severe Storm; Shallow Groundwater	<p>Problem: Frequent flooding events have resulted in damages to residential properties. Older residential properties at the interior of the Village are at the highest flood risk. These properties have been repetitively flooded as documented by paid NFIP claims.</p> <p>Solution: Conduct outreach to 30 flood-prone property owners, including RL/SRL property owners and provide information on mitigation alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).</p>	No	None	3 years	NFIP Floodplain Administrator, supported by homeowners	\$3 Million	Eliminates flood damage to homes and residents, creates open space for the municipality increasing flood storage.	FEMA HMGP and FMA, local cost share by residents	High	SIP	PP
2020-Saltaire-008	Critical Facilities Outreach	2, 6, 8	Flood	<p>Problem: The Village has numerous critical facilities located in the 100-year floodplain that are not Village owned:</p> <ul style="list-style-type: none"> • Our Lady Star of the Sea Church • Saint Andrews by the Sea Church <p>Solution: The FPA will conduct outreach to the facility managers of critical facilities in the floodplain to discuss the facilities flood exposure and potential mitigation actions that could be taken.</p>	Yes	Non	1 year	FPA	Staff time	Facility managers aware of flood risk and potential mitigation options	Village budget	High	EAP	PI
2020-Saltaire-009	Dune and Beach Protections	3, 4, 5	Coastal Erosion, Flood, Hurricane, Nor'Easter	<p>Problem: Coastal erosion and flooding from coastal storms is a recurring problem along the ocean front.</p> <p>Solution: Assess and prioritize options to maintain adequate protective features along the Atlantic Ocean facing dunes and the beach system, and implement as funding becomes available.</p>	Yes	Permitting depending on actions	Within 5 years	Administration	Staff time	Secure beach-dune system for coastal protection	Village budget	High	NSP	NR
2020-	Clam Pond	2, 3,	Coastal	<p>Problem: Clam Pond Cove Peninsula is</p>	No	Permitting depending on actions	Within 5 years	Administration	\$3 million	Natural	HMGP,	High	NSP	NR





Table 9.27-15. 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
Saltaire -010	Cove Peninsula	4, 5	Erosion, Flood	a protected natural cove and land spit which provides flood and storm damage protection to the developed Village shoreline. The Peninsula has eroded away over the last decade, increasing the storm exposure on the Village. Solution: Reconstruct the Clam Pond Cove Peninsula to mitigate Bay flooding, and implement as funding becomes available.						protection of Peninsula restored	USACE, NYS DEC, Village budget			
2020-Saltaire -011	Water tank for Well #2	1, 2, 7, 8	Flood, Wildfire, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	Problem: Well #2 lacks a water tank. Solution: Install a water tank at well #2 on Broadway to maintain adequate fire flow in case of damage or outage at Well #1.	Yes	None	5 years	Maintenance	\$700,000	Tank will ensure continued operations for domestic serve and fire-fighting before, during and after storm events.	HMGP, BRIC, CDBG, Village budget	High	SIP	PP
2020-Saltaire -012	Relocate buildings on Beacon Walk	2, 8	Coastal Erosion, Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW Flooding	Problem: 4 building located at Beacon Walk are low lying and at risk of flooding and wave damage in coastal storms. Solution: Assess and prioritize options to relocate the maintenance and water buildings on Beacon Walk away from the Atlantic Ocean, and implement as funding becomes available.	Yes	None	5 years	Administration	\$600,000	Flood and wave damage risk reduced	HMGP, BRIC, Village budget	High	SIP	PP
2020-Saltaire -013	Elevate Municipal Owned Buildings	2, 8	Flood, Shallow GW Flooding	Problem: The Village owns roughly 20 buildings which may need to be elevated to protect from flood damage. Solution: Assess and prioritize options to elevate all municipal-owned buildings through a feasibility study, and implement as funding becomes available.	Yes	None	5 years	Administration	TBD by feasibility study	Reduction in flood risk	HMGP, PDM, BRIC, USDA Community Facilities Grant	High	SIP	PP



Table 9.27-15. 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
				Prioritize the following facilities: <ul style="list-style-type: none"> • Doctor’s House • Recreation House • Paramedic House • 14 Bay Avenue 							Program, Village budget			
2020-Saltaire -014	Backup Generator for Well#2	2, 7, 8	All hazards	Problem: Well#2 lacks backup power. Funds have been received from the Fire Island Reconstruction Zone fund for generator purchase and installation. Solution: Purchase and install backup generator.	No	None	1 year	Maintenance	\$30,000	Continuity of service	Fire Island Reconstruction Zone Funding	High	SIP	PP, ES
2020-Saltaire -015	Coastal Erosion Monitoring	1, 2, 3, 5	Coastal Erosion, Hurricane, Nor’Easter	Problem: The Village has shoreline which could be exposed to coastal erosion. Solution: The Village will participate in a county led erosion monitoring program.	No	None	Within 1 year	SCWD, Village Administration	Staff time	Identification of coastal erosion	Municipal budget	High	NSP	NR

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

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Table 9.27-16. 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 Objectives	Total	High / Medium / Low
2020-Saltaire-001	Bury Overhead Strategically Located Electrical Transmission Lines.	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Saltaire-002	Reconstruct and expand the Public Safety and Medical Clinic Building	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2020-Saltaire-003	Replace the water tank at Well #1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Saltaire-004	Elevate the Saltaire Firehouse	1	1	1	1	1	1	0	1	1	1	0	0	1	1	11	High
2020-Saltaire-005	Convert to Nitrogen reducing Sanitary Systems	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Saltaire-006	Bulkhead Improvements	0	1	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2020-Saltaire-007	Repetitive Loss Properties	1	1	1	1	1	1	0	1	0	0	1	1	0	1	10	High
2020-Saltaire-008	Critical Facilities Outreach	0	1	1	1	1	1	1	1	1	1	1	1	1	1	13	High
2020-Saltaire-009	Dune and Beach Protections	1	1	1	1	1	1	1	1	1	1	1	0	1	1	13	High
2020-Saltaire-010	Clam Pond Cove Peninsula	0	1	1	1	1	0	0	1	1	1	1	0	1	1	10	High
2020-Saltaire-011	Water tank for Well #2	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Saltaire-012	Relocate buildings on Beacon Walk	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Saltaire-013	Elevate Municipal Owned Buildings	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020-Saltaire-014	Backup Generator for Well#2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2020-Saltaire-015	Coastal Erosion Monitoring	0	1	1	1	1	1	0	1	1	1	0	1	1	1	11	High

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



9.27.11 Proposed Mitigation Action Types

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

Table 9.27-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Coastal Erosion		2020-Saltaire-002, 2020-Saltaire-006, 2020-Saltaire-012, 2020-Saltaire-014	2020-Saltaire-009, 2020-Saltaire-010, 2020-Saltaire-015			2020-Saltaire-006, 2020-Saltaire-012, 2020-Saltaire-014		2020-Saltaire-009, 2020-Saltaire-010, 2020-Saltaire-015		2020-Saltaire-002, 2020-Saltaire-014
Cyber Security		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Disease Outbreak		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Drought		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Earthquake		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Expansive Soils		2020-Saltaire-002, 2020-Saltaire-012, 2020-Saltaire-014				2020-Saltaire-012, 2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Extreme Temperature		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Flood		2020-Saltaire-002, 2020-Saltaire-003, 2020-Saltaire-004,	2020-Saltaire-009, 2020-Saltaire-010	2020-Saltaire-005, 2020-Saltaire-008		2020-Saltaire-003, 2020-Saltaire-004, 2020-Saltaire-006,	2020-Saltaire-005, 2020-Saltaire-008	2020-Saltaire-009, 2020-Saltaire-010		2020-Saltaire-002, 2020-Saltaire-014



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		2020-Saltaire-006, 2020-Saltaire-007, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-013, 2020-Saltaire-014				2020-Saltaire-007, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-013, 2020-Saltaire-014				
Groundwater Contamination		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Hurricane		2020-Saltaire-001, 2020-Saltaire-002, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-014	2020-Saltaire-009, 2020-Saltaire-015			2020-Saltaire-001, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-014		2020-Saltaire-009, 2020-Saltaire-015		2020-Saltaire-002, 2020-Saltaire-014
Infestation and Invasive Species		2020-Saltaire-002, 2020-Saltaire-014				2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Nor'easter		2020-Saltaire-001, 2020-Saltaire-002, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-014	2020-Saltaire-009, 2020-Saltaire-015			2020-Saltaire-001, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-014		2020-Saltaire-009, 2020-Saltaire-015		2020-Saltaire-002, 2020-Saltaire-014
Severe Storm		2020-				2020-				2020-Saltaire-002,



Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
		Saltaire-001, 2020-Saltaire-002, 2020-Saltaire-003, 2020-Saltaire-007, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-014				Saltaire-001, 2020-Saltaire-003, 2020-Saltaire-007, 2020-Saltaire-011, 2020-Saltaire-012, 2020-Saltaire-014				2020-Saltaire-014
Severe Winter Storm		2020-Saltaire-001, 2020-Saltaire-002, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-014				2020-Saltaire-001, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014
Shallow Groundwater		2020-Saltaire-002, 2020-Saltaire-006, 2020-Saltaire-007, 2020-Saltaire-012, 2020-Saltaire-013, 2020-Saltaire-014		2020-Saltaire-005		2020-Saltaire-006, 2020-Saltaire-007, 2020-Saltaire-012, 2020-Saltaire-013, 2020-Saltaire-014	2020-Saltaire-005			2020-Saltaire-002, 2020-Saltaire-014
Wildfire		2020-Saltaire-002, 2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-014				2020-Saltaire-003, 2020-Saltaire-011, 2020-Saltaire-014				2020-Saltaire-002, 2020-Saltaire-014

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



9.27.12 Staff and Local Stakeholder Involvement in Annex Development

The Village of Saltaire 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: Administration, Deputy Clerk Treasure. 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 9.27-18. Contributors to the Annex

Name	Title/Entity	Method of Participation
Meagan Leppiullo	Deputy Clerk Treasurer	Alternate Point of Contact, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Mario Posillico	Village Administrator	NFIP Floodplain Administrator, attended plan participant meetings, provided impact data, contributed to mitigation strategy
Donna Lyudmer	Treasurer	Primary Point of Contact

9.27.13 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Saltaire 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 Saltaire has significant exposure.



Figure 9.27-1. Village of Saltaire Hazard Area Extent and Location Map 1

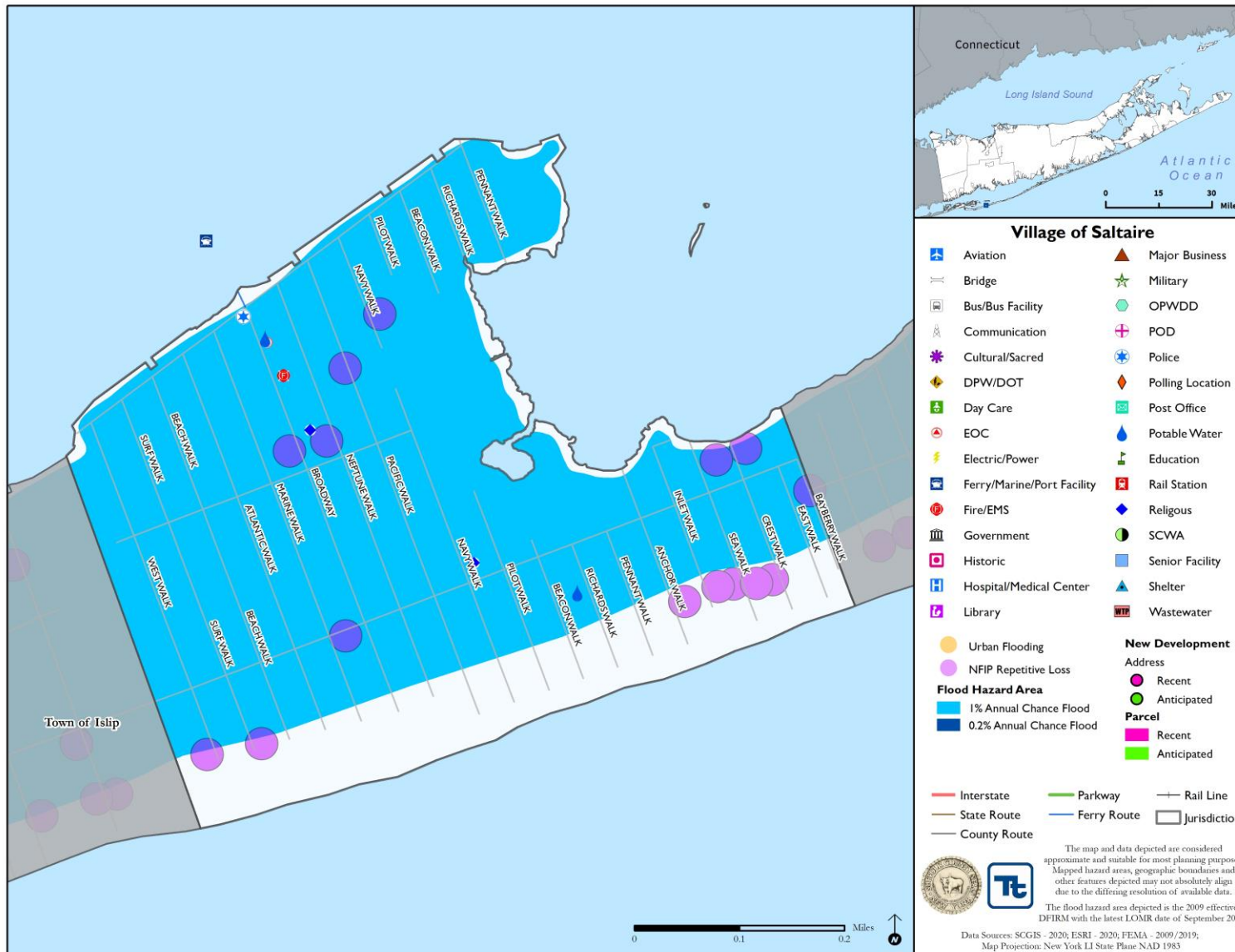




Figure 9.27-2. Village of Saltaire Hazard Area Extent and Location Map 2

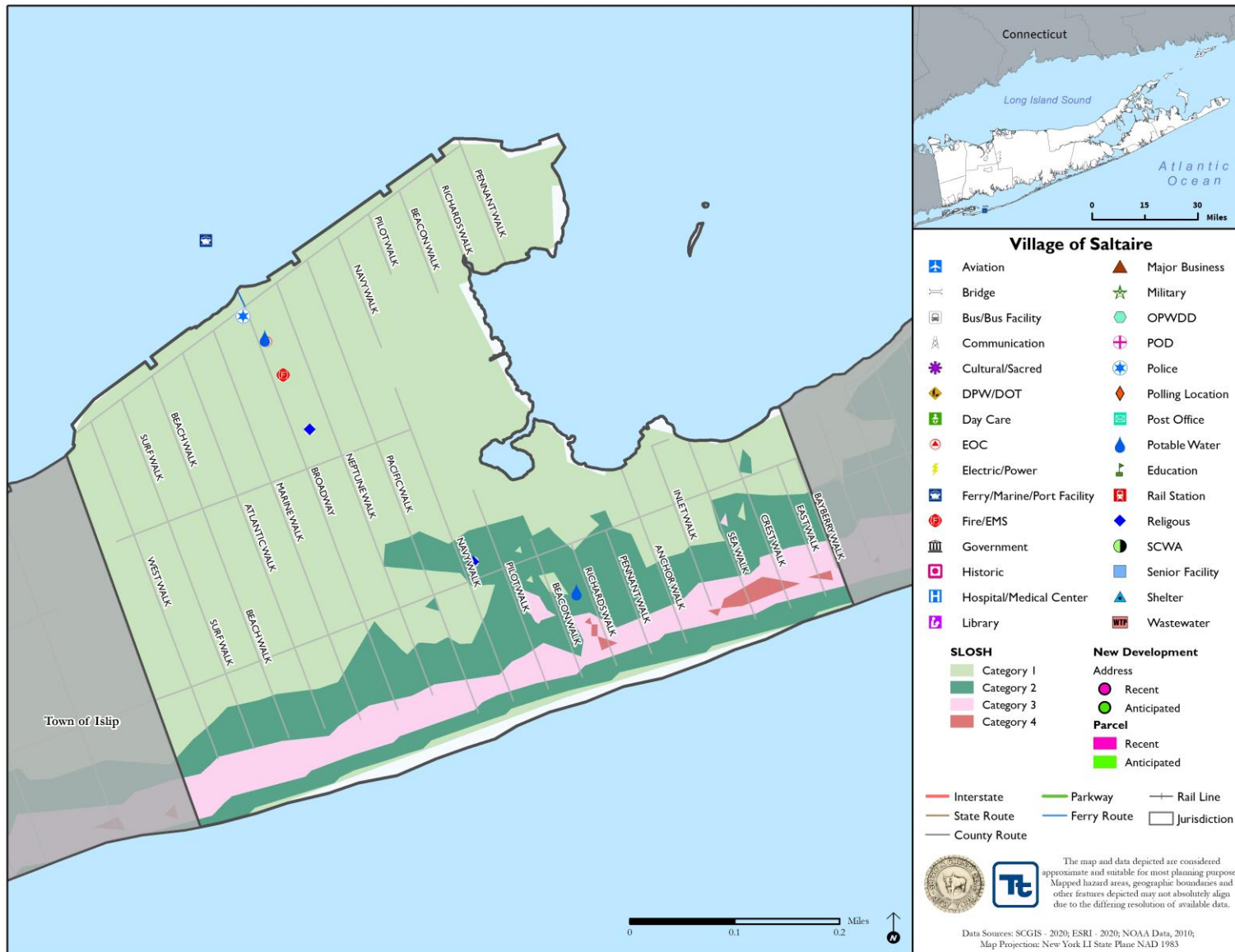




Figure 9.27-3. Village of Saltaire Hazard Area Extent and Location Map 3

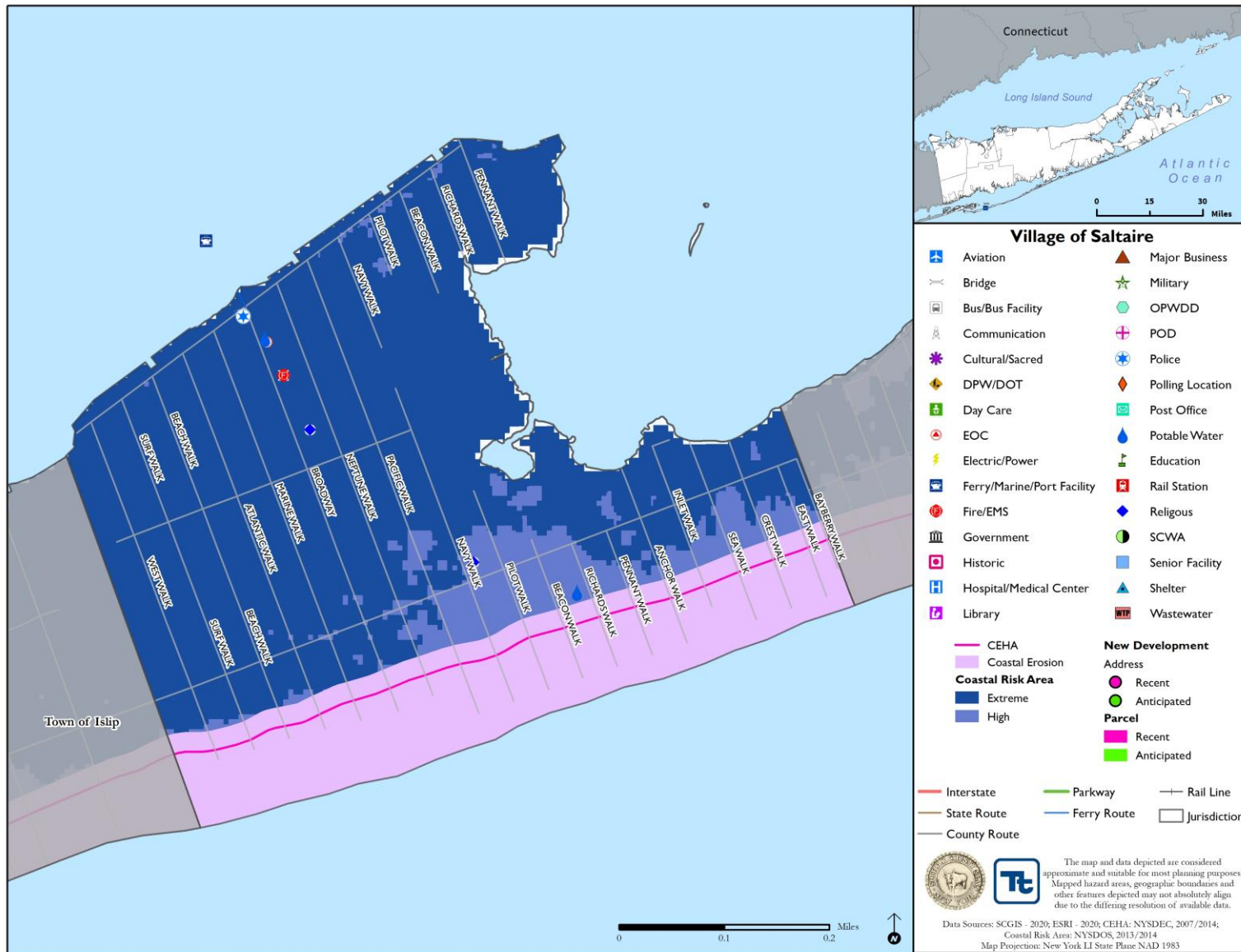




Figure 9.27-4. Village of Saltaire Hazard Area Extent and Location Map 4

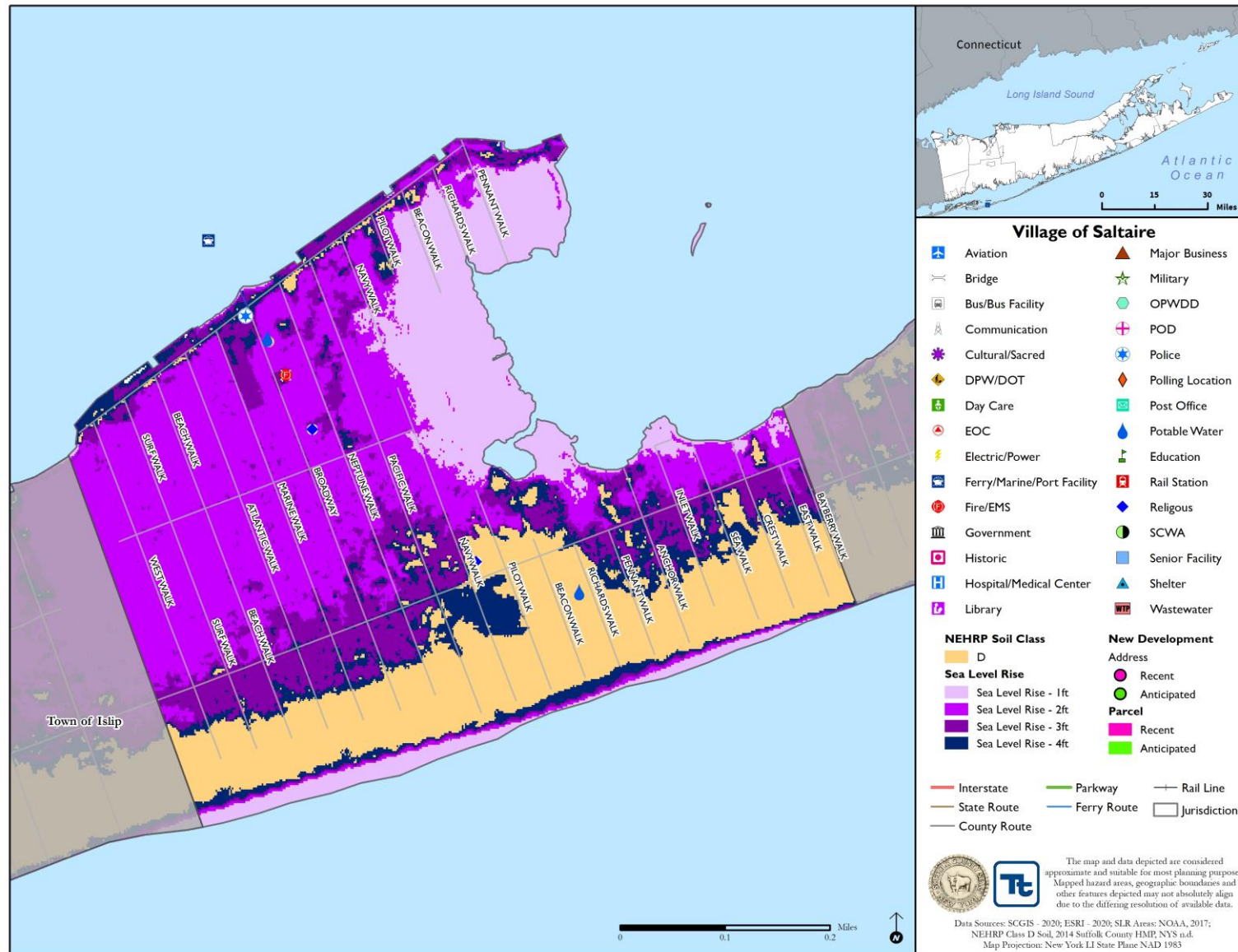
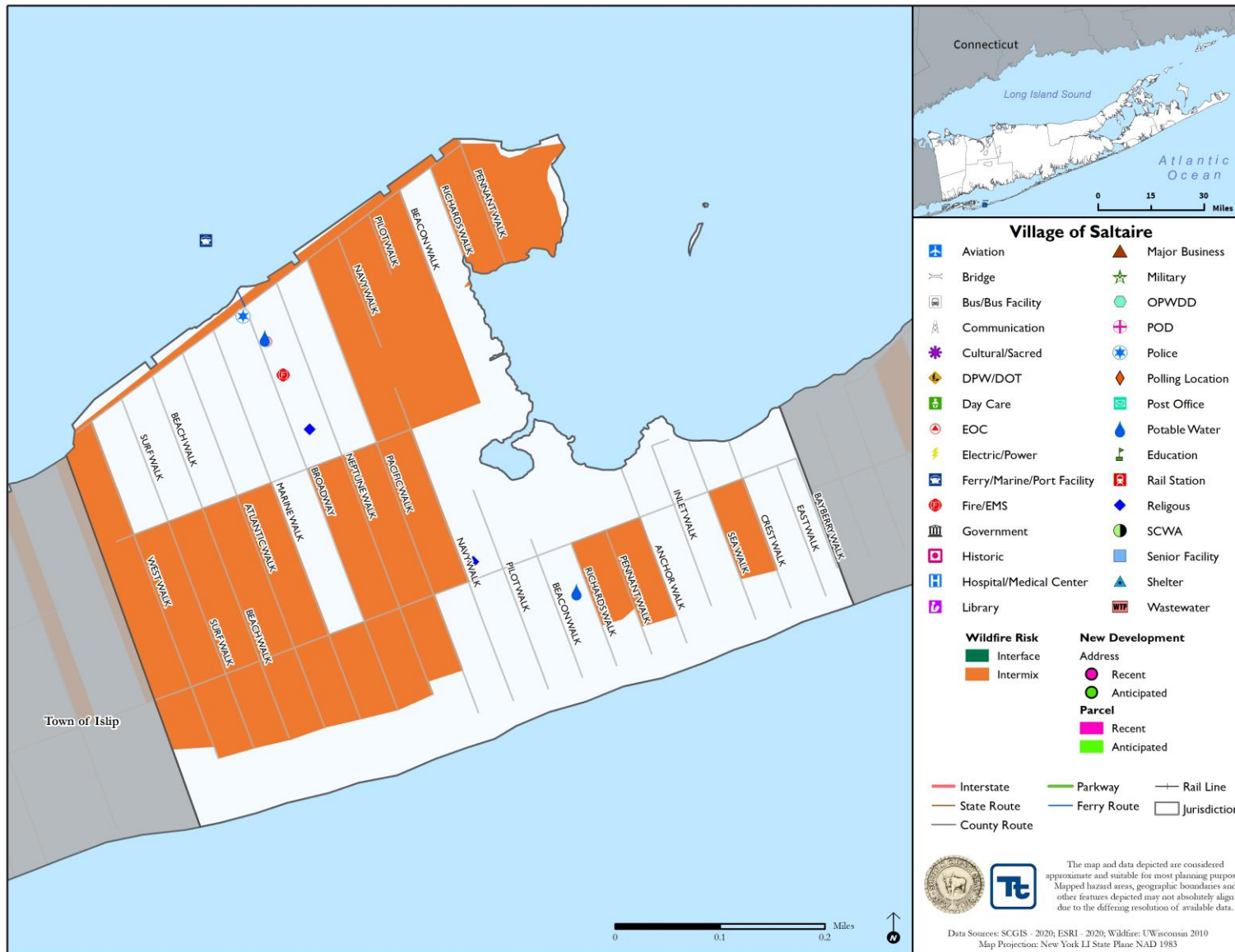




Figure 9.27-5. Village of Saltaire Hazard Area Extent and Location Map 5





Action Worksheet			
Project Name:	Reconstruct and expand the Public Safety and Medical Clinic Building		
Project Number:	2020-Saltaire-002		
Risk / Vulnerability			
Hazard(s) of Concern:	All hazards		
Description of the Problem:	The Public Safety and Medical Clinic at 14 Bay Prom is identified for use for emergency operations, sheltering, and addressing public health.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will remodel the Public Safety and Medical Clinic at 14 Bay Prom for emergency operations, sheltering, and addressing public health. The Village will expand and upgrade the building to assist in: Emergency Operations and Public Health issues that may arise. The Village will also create a cooling center to provide sheltering during extreme temperature events.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input 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:	Multi use emergency response and sheltering facility established	Estimated Benefits (losses avoided):	Greatly mitigate the impact and cost of disaster and recovery.
Useful Life:	25 years	Goals Met:	1, 2, 7
Estimated Cost:	\$1.75 million	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	Within 2 years	Potential Funding Sources:	FEMA HMGP, PDM, BRIC, Village budget
Responsible Organization:	Administration	Local Planning Mechanisms to be Used in Implementation if any:	Hazard mitigation, emergency management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Purchase multi-use trailers	\$1M per trailer	Require deployment, limited space
	Purchase mobile hospitals	\$1M per mobile hospital	Require deployment, require significant open space
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:	Reconstruct and expand the Public Safety and Medical Clinic Building	
Project Number:	2020-Saltaire-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provides sheltering and medical services for the region
Property Protection	0	
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	The project requires funding support
Environmental	1	
Social	1	Project would benefit and serve the Village
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	2 years
Agency Champion	1	Administration
Other Community Objectives	1	Multi-use facility established for emergency response and sheltering
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Replace the water tank at Well #1		
Project Number:	2020-Saltaire-003		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Wildfire, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm		
Description of the Problem:	Upgraded tanks are needed to provide better flood resistance capabilities and assure continued operations for domestic serve and fire-fighting before, during and after storm events.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will replace the 15,000 Gallon Hydronautical water tank at Well #1 at the Saltaire Maintenance Yard.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input 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:	500-year flood level	Estimated Benefits (losses avoided):	Upgraded tanks will provide better flood resistance capabilities and assure continued operations for domestic serve and fire-fighting before, during and after storm events.
Useful Life:	50 years	Goals Met:	1, 2, 7, 8
Estimated Cost:	\$700,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 month	Potential Funding Sources:	HMGP, BRIC, CDBG, Village budget
Responsible Organization:	Maintenance	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.
	Remove well	N/A	Well cannot be removed
	Relocate well	N/A	Well cannot be relocated. No additional identified space.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Replace the water tank at Well #1	
Project Number:	2020-Saltaire-003	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Tank allows for fire fighting ability
Property Protection	1	Well tank protected from flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the project
Fiscal	0	The project requires funding support
Environmental	1	
Social	1	Provides service to the community
Administrative	1	
Multi-Hazard	1	Flood, Wildfire, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm
Timeline	0	Within 5 years
Agency Champion	1	Maintenance
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Elevate the Saltaire Firehouse		
Project Number:	2020-Saltaire-004		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood		
Description of the Problem:	The building, when first constructed, was above the Flood Level, but the new flood maps have put it below the flood level. The facility is a critical facility located in the Special Flood Hazard Area.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will elevate the Firehouse at 105 Broadway above the 500-year flood level. The elevation will include both the community room and apparatus room.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input 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:	500-year flood level	Estimated Benefits (losses avoided):	Ensures continuity of operations
Useful Life:	50 years	Goals Met:	1, 2, 7
Estimated Cost:	\$1 million	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and PDM, BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Village Budget
Responsible Organization:	Fire Company	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate firehouse	N/A	Not possible. No other space identified.
	Build levee around facility	N/A	No space for full levee system
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Elevate the Saltaire Firehouse	
Project Number:	2020-Saltaire-004	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Firehouse
Property Protection	1	Project will protect Firehouse from flood damage.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Within 5 years
Agency Champion	1	Fire Company
Other Community Objectives	1	Protection of critical services
Total	11	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Repetitive Loss Properties		
Project Number:	2020-Saltaire-007		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Frequent flooding events have resulted in damages to residential properties. Older residential properties at the interior of the Village are at the highest flood risk. These properties have been repetitively flooded as documented by paid NFIP claims.		
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 alternatives. After preferred mitigation measures are identified, collect required property-owner information and develop a FEMA grant application and BCA to obtain funding to implement acquisition/purchase/moving/elevating residential homes in the flood prone areas that experience frequent flooding (high risk areas).		
Is this project related to a Critical Facility or Lifeline?	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"/>	
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, creates open space for the municipality increasing flood storage.
Useful Life:	Acquisition: Lifetime 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	Current problem continues
	Elevate homes	\$500,000	When this area floods, the entire area is impacted; elevating homes would not eliminate the problem and still lead to road closures and impassable roads
Elevate roads	\$500,000	Elevated roadways would not protect the homes from flood damages	
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 Properties	
Project Number:	2020-Saltaire-007	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Families moved out of high-risk flood areas.
Property Protection	1	Properties removed from high-risk flood areas.
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	0	Project would remove families from the flood prone areas of the Village.
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	NFIP Floodplain Administrator, supported by homeowners
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Clam Pond Cove Peninsula		
Project Number:	2020-Saltaire-010		
Risk / Vulnerability			
Hazard(s) of Concern:	Coastal Erosion, Flood		
Description of the Problem:	Clam Pond Cove Peninsula is a protected natural cove and land spit which provides flood and storm damage protection to the developed Village shoreline. The Peninsula has eroded away over the last decade, increasing the storm exposure on the Village.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will work to reconstruct the Clam Pond Cove Peninsula using renourishment and native plantings to mitigate Bay flooding and erosion.		
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:	Natural protection of Peninsula restored	Estimated Benefits (losses avoided):	Natural protection of Peninsula restored, ecosystem restored
Useful Life:	10 years	Goals Met:	2, 3, 4, 5
Estimated Cost:	\$3 million	Mitigation Action Type:	Natural Systems Protections
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, USACE, NYS DEC, Village budget
Responsible Organization:	Administration	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.
	Harden the newly exposed shoreline	\$6 million	Costly
	Replace peninsula with seawall	\$5 million	Natural system lost
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:	Clam Pond Cove Peninsula	
Project Number:	2020-Saltaire-010	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Protects Village from flood and erosion
Cost-Effectiveness	1	
Technical	1	The project is technically feasible
Political	1	There is public support for the project
Legal	0	Project will require permitting
Fiscal	0	Project requires funding support
Environmental	1	Natural protection of Peninsula restored, ecosystem restored
Social	1	
Administrative	1	
Multi-Hazard	1	Coastal Erosion, Flood
Timeline	0	Within 5 years
Agency Champion	1	Administration
Other Community Objectives	1	
Total	10	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Water tank for Well #2		
Project Number:	2020-Saltaire-011		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Wildfire, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm		
Description of the Problem:	Well #2 lacks a water tank. A tank is needed to provide better flood resistance capabilities and assure continued operations for domestic serve and fire-fighting before, during and after storm events.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will purchase and install a 15,000 Gallon Hydronautical water tank at Well #2.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input checked="" type="checkbox"/>	No <input 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:	500-year flood level	Estimated Benefits (losses avoided):	Tank will ensure continued operations for domestic serve and fire-fighting before, during and after storm events.
Useful Life:	50 years	Goals Met:	1, 2, 7, 8
Estimated Cost:	\$700,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 month	Potential Funding Sources:	HMGP, BRIC, CDBG, Village budget
Responsible Organization:	Maintenance	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.
	Add second tank at Well #1	N/A	Not enough space
	Build third well	N/A	No additional identified space.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Water tank for Well #2	
Project Number:	2020-Saltaire-011	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Tank allows for fire fighting ability
Property Protection	1	Well tank protected from flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the project
Fiscal	0	The project requires funding support
Environmental	1	
Social	1	Provides service to the community
Administrative	1	
Multi-Hazard	1	Flood, Wildfire, Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm
Timeline	0	Within 5 years
Agency Champion	1	Maintenance
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Relocate buildings on Beacon Walk		
Project Number:	2020-Saltaire-012		
Risk / Vulnerability			
Hazard(s) of Concern:	Coastal Erosion, Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW Flooding		
Description of the Problem:	Four building located at Beacon Walk are low lying and at risk of flooding and wave damage in coastal storms. These are located close to the primary dune and would be exposed to damages if the dune fails during a storm.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will assess and prioritize options to relocate the maintenance and water buildings on Beacon Walk away from the Atlantic Ocean, and implement as funding becomes available.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Relocated away from wave overwash area	Estimated Benefits (losses avoided):	Flood and wave damage risk reduced
Useful Life:	100 years	Goals Met:	2, 8
Estimated Cost:	TBD	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	5 years	Potential Funding Sources:	HMGP, PDM, BRIC, USDA Community Facilities Grant Program, Village budget
Responsible Organization:	Administration	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 buildings	\$600,000	Wave overwash may still result in damages
	Floodproof buildings	\$400,000	Wave damage may still occur
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Relocate buildings on Beacon Walk	
Project Number:	2020-Saltaire-012	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects critical services
Property Protection	1	Protects buildings from flood and wave damages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Coastal Erosion, Expansive Soils, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW Flooding
Timeline	0	Within 5 years
Agency Champion	1	Administration
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Elevate Municipal Owned Buildings		
Project Number:	2020-Saltaire-013		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Shallow GW Flooding		
Description of the Problem:	The Village owns roughly 20 buildings which may need to be elevated to protect from flood damage.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village will assess and prioritize options to elevate all municipal-owned buildings through a feasibility study, and implement as funding becomes available. The Village will prioritize the following facilities: <ul style="list-style-type: none"> • Doctor's House • Recreation House • Paramedic House • 14 Bay Avenue 		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the 100-year floodplain?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
(If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	500-year flood elevation	Estimated Benefits (losses avoided):	Flood damage risk reduced
Useful Life:	100 years	Goals Met:	2, 8
Estimated Cost:	TBD	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	5 years	Potential Funding Sources:	HMGP, PDM, BRIC, USDA Community Facilities Grant Program, Village budget
Responsible Organization:	Administration	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.
	Relocate buildings	N/A	Not enough space to relocate all buildings
	Floodproof buildings	\$50,000 per building	May not be possible/effective
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Elevate Municipal Owned Buildings	
Project Number:	2020-Saltaire-013	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects critical services
Property Protection	1	Protects buildings from flood damages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The Village has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Shallow GW Flooding
Timeline	0	Within 5 years
Agency Champion	1	Administration
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	