

# Village of Sea Cliff Annex

This document presents the Village of Sea Cliff’s annex to the *Nassau County Multi-Jurisdictional Hazard Mitigation Plan*.

## Hazard Mitigation Plan Points of Contact

The individuals below have been identified as this jurisdiction’s points of contact for the hazard mitigation plan. These individuals are members of the Planning Committee that met regularly for the update of this plan and will continue to meet in the years ahead to implement it.

1Primary Point of Contact	Alternate Point of Contact
Bruce Kennedy, Admin Village of Sea Cliff 300 Sea Cliff Avenue PO Box 340 Sea Cliff, NY 11579 bkennedy@seacliff-ny.gov 516-671-0080	Shane Dommin, Building Inspector at Village of Sea Cliff Village of Sea Cliff 300 Sea Cliff Avenue PO Box 340 Sea Cliff, NY 11579 516-671-0080

## Profile

The Village of Sea Cliff covers approximately 1.11 square miles<sup>1</sup> and has a total population of 5,020 according to the American Community Survey 5-Year 2018 Estimates. Some of the demographics of the Village of Sea Cliff are summarized in Table 1. This information supported the development of mitigation actions that account for the needs of the most vulnerable individuals in the community.

Table 1: Village of Sea Cliff Demographic Information

Demographic	Demographic
Below 5 Years Old	3.9%
Above 65 Years Old	19.4%
Individuals with Disabilities	4.8%
Persons in Poverty	7.2%
Renters	28.4%
Without a High School Diploma	3.3%
Without Access to Broadband Internet	9.7%
Black or African American alone	1.4%
American Indian and Alaska Native alone	0.0%
Asian alone	0.4%
Native Hawaiian and other Pacific Islander alone	0.0%
Two or More Races	1.9%
White alone, not Hispanic or Latino, percent	93.3%
Hispanic or Latino	9.1%

<sup>1</sup> This is inclusive of land area only.

With limited space for growth and development, the Village mainly sees renovation and redevelopment projects. Additionally, in the last five years, the Village oversaw the implementation of sewers. The jurisdiction maintains zoning maps and planning teams. By understanding these development trends and how they intersect with hazard-prone areas, this allows for current and future vulnerabilities to be planned for and avoided.

Refer to the **County Profile** section of this plan for additional information related to current and future conditions of the County’s vulnerable population and the natural environment. This information provides important context for understanding hazard mitigation planning.

## Hazard Vulnerability

This section summarizes how the natural hazards profiled in Section 4 of this plan impact the Village of Sea Cliff. The jurisdiction identified Coastal Hazards, Drought, Extreme Temperature, Flooding, Ground Failure, Hurricane and Tropical Storms, Hail, Severe Winter Weather, and Tornados as the natural hazards that impact the community. Table 2 shows the sectors of the community that are most likely to be impacted by each hazard. The categories that were considered included the community, economy, health and social services, housing, infrastructure, natural and cultural resources, or no impact. No impact indicates that the jurisdiction did not identify a noticeable impact from the hazard over the past five years, even if the hazard occurs. This information was used to develop a relevant and effective mitigation strategy for the jurisdiction. Detailed hazard event histories, critical facility exposure, and additional vulnerability information can be found in each hazard profile in Section 4 of this plan.

The hazards that most impact the Village of Sea Cliff include: **Hurricane**.

Table 2: Village of Sea Cliff Hazard Impacts

Hazard	Impact Categories
Coastal Hazards	Housing
Drought	Housing, No Impact
Extreme Temperatures	Health and Social Services
Flooding	Community, Housing, Infrastructure
Ground Failure	Housing, Infrastructure
Hurricane and Tropical Storms	Community, Infrastructure
Hail	Community, Housing, Infrastructure
Lightning	No Impact
Severe Winter Weather	Economy, Housing, Infrastructure
Tornados	Community, Economy, Health and Social Services, Housing, Infrastructure, Natural Cultural Resources
Wind	No Impact

## Capability Assessment

This section summarizes the capabilities that the Village of Sea Cliff has in place that can support hazard mitigation. These capabilities include plans, ordinances, staff, financial resources, and program participation. This Capability Assessment was used to help drive the identification and development of the projects presented in the Mitigation Strategy to make sure that they are appropriate in scope and achievable to implement.

### Legal and Regulatory Capability Assessment

Table 3 lists the assessment of existing legal and regulatory tools for the Village of Sea Cliff. The Village of Sea Cliff maintains several key administrative and technical capabilities to support mitigation, including building codes, climate action plans, community development plans, comprehensive/master plans, economic development plans, growth management plans, emergency response plans, open space plans, site plan review requirements, stormwater management plans, subdivision ordinances, and zoning ordinances. These capabilities are critical to consider as tools in developing and implementing mitigation strategies. To further enhance their mitigation capabilities, the Village can consider the capabilities in the table below that the Village currently does not have. These additional capabilities would either support creating a legal framework or strategy for implementing a diversity of mitigation actions.

*Table 3: Village of Sea Cliff Existing Legal and Regulatory Capabilities*

Regulatory Tool	Yes / No	Citation (if applicable)
Access and Functional Needs Plan	No	
Building Code	Yes	
Capital Improvement Plan	No	
Climate Action Plan	Yes	
Community Development Plan	Yes	
Comprehensive Plan / Master Plan	Yes	
Economic Development Plan(s)	Yes	
Emergency Response Plan(s)	No	
Floodplain Management Plan(s)	No	
Growth Management Plan(s)	Yes	
NFIP Flood Damage Prevention Ordinance(s)	Yes	
Open Space Plan(s)	No	
Post Disaster Recovery Ordinance(s)	No	
Post Disaster Recovery Plan(s)	No	
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	

Regulatory Tool	Yes / No	Citation (if applicable)
Small Area Development Plan(s)	No	
Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	Yes	
Subdivision Ordinance(s)	Yes	
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	

## Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Sea Cliff. The Village of Sea Cliff's primary administrative and technical capabilities include an emergency manager, grant writers, and construction practices personnel. The Village can bolster their capabilities in this category by identifying individuals with expertise in planning and natural hazards (specifically related to flooding).

Table 4: Village of Sea Cliff Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Bruce Kennedy, Shane Dommin
Engineer(s) trained in construction practices related to buildings/infrastructure	No	
Engineer(s) with an understanding of natural and/or human caused hazards	No	
Engineer(s) with knowledge of land development and land management practices	No	
Grant Writers	Yes	Erin McDonnell
Personnel skilled or trained in Geographic Information Systems	No	
Personnel trained in construction practices related to buildings/infrastructure	Yes	Shane Dommin, Building Department
Planner(s) with an understanding of natural hazards	No	
Planner(s) with knowledge of land development and land management practices	No	
Scientist(s) familiar with natural hazards	No	
Surveyors	No	

## Fiscal Capability Assessment

Table 5 lists the assessment of existing fiscal tools for the Village of Sea Cliff. Funding is often the biggest barrier when implementing mitigation programs. The Village identified no fiscal capabilities to support mitigation. Village of Sea Cliff should consider exploring additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Sea Cliff Existing Fiscal Capabilities

Resources	Yes / No	Additional Details
Ability to incur debt through general obligation bonds	No	
Ability to incur debt through private activity bonds	No	
Ability to incur debt through special tax bonds	No	
Authority to levy taxes for specific purposes	No	
Authority to utilize user fees for utility services	No	
Authority to withhold public expenditures in hazard prone areas	No	
Capital improvements project funding	No	
Community Development Block Grants (CDBG)	No	
Impact fees for home buyers and/or developers	No	
State mitigation grant programs	No	

## Community Classification Assessment

Table 6 lists the assessment of existing community classifications for the Village of Sea Cliff. Participation in the Climate Smart Communities program demonstrates increased capabilities of the Village related to mitigation. Exploring gaining additional community classifications will guide the Village's mitigation programs and support capacity building.

Table 6: Village of Sea Cliff Community Classifications

Classification	Yes/No (or Status)
Building Code Effectiveness Grading Schedule (BCEGS)	No
Public Protection Classification Program	No
Community Rating System (CRS)	No
Other Classifications	Climate Smart Community

## **National Flood Insurance Program Summary**

This section provides a summary of the floodplain management capabilities for Village of Sea Cliff and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP). The areas of Shore Road and the Boulevard are prone to flooding.

The Village's Administrator and Building Inspector are responsible for floodplain management. The Village administers the NFIP through building permit and site plan review, and onsite inspections. Some of the barriers to running a successful NFIP program in the Village include having limited staff and resources to address all the needs. The flood maps for this jurisdiction accurately portray the current flood risk. There are currently no RiskMAP projects ongoing in this jurisdiction.

After flood events, building inspectors perform onsite inspections to assess the level of damage to properties and determine if buildings are substantially damaged. The Village reported that one property was substantially damaged as a result of Superstorm Sandy. The Village of Sea Cliff is in good standing with the NFIP. Based on documentation received from NYSDEC, a compliance audit in the form of a Community Assistance Visit was conducted in the Village on 01/19/2012. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

Home modifications have been the Village's primary mitigation tool in flood-prone areas. The Flood Damage Prevention Ordinance for the Village of Sea Cliff meets minimum requirements. The ordinance was last amended 2020 and can be referenced in Chapter 68, Village Code.

## Mitigation Strategy

The following section provides an overview of the mitigation strategy for Village of Sea Cliff. It provides an overview of the jurisdiction's previous mitigation actions, proposed actions, and the NYS mitigation worksheets.

### Previous Mitigation Actions

This jurisdiction did not participate in the 2014 hazard mitigation plan.

### Proposed Mitigation Actions

Project Number	VSC_1	VSC_2
Project Name	Beach Protection/Jetty	Boardwalk/Bulkheading
Goal being met	3	3
Hazards to be mitigated	Coastal Hazards	Coastal Hazards
PriorityRanking	High	High
Description of the Problem	Rising sea levels are diminishing the beach area and causing extensive erosion	Rising sea levels are threatening the Boardwalk and the hillside beyond, threatening residences and businesses.
Description of the Solution	Install a new rock jetty that goes out into Glen Cove Creek to reduce erosion and increase sand accretion.	Install higher seawalls and raise the Boardwalk to protect the waterfront area.
Critical Facility	Yes	Yes
EHP Issues	No	No
Estimated Timeline	3 - 5 years	5 - 10 years
Lead Agency	Village of Sea Cliff	Village of Sea Cliff
Estimated Costs	\$3000000	\$10000000
Estimated Benefits	Public use of the beach and \$10,000,000 - \$20,000,000 avoided in losses	Public access to the waterfront and an estimated \$10,000,000 in avoided losses
Potential Funding Sources	Federal and State Grants	Federal and State Grants

## **Mitigation Action Worksheets**

The following pages contain mitigation action worksheets that provide additional detail some of the jurisdiction's proposed mitigation actions.



## Nassau County Multi-Jurisdictional Hazard Mitigation Plan

Name of Jurisdiction: Incorporated Village of Sea Cliff

NYS DHSES Action Worksheet			
Project Name:	Beach Protection/Jetty		
Project Number:	VSC_1		
Risk / Vulnerability			
Hazard of Concern:	Coastal Hazards - Sea Level Rise		
Description of the Problem:	Rising sea levels are diminishing the beach area and causing extensive erosion.		
Action or Project Intended for Implementation			
Description of the Solution:	Install a new rock jetty that goes out into Glen Cove Creek to reduce erosion and increase sand accretion.		
Is this project related to a Critical Facility?	Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/>
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	National Climate Assessment intermediate-high sea level rise scenario (~4' of local sea-level rise by 2100)	Estimated Benefits (losses avoided):	Public use of the beach and \$10,000,000 - \$20,000,000 avoided in losses.
Useful Life:	25 - 50 Years		
Estimated Cost:	\$3,000,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	5-10 Years
Estimated Time Required for Project Implementation:	3-5 Years	Potential Funding Sources:	Federal / State Grants
Responsible Organization:	Village of Sea Cliff	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Conduct a feasibility study to understand the different options available for protecting the beach area and reducing erosion.	~\$25,000	There may be more cost-effective and sustainable options to consider.
	Relocate the beach area to a different location in Sea Cliff.	To be determined	Sea level rise could continue to threaten the beach area even if it's relocated.
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

## Instructions

(Name of Jurisdiction) \_\_\_\_\_

NYS DHSES Action Worksheet			
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.		
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.		
Risk / Vulnerability			
Hazard of Concern:	Identify the hazard being addressed with this action.		
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
Is this project related to a Critical Facility?		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 worst damage scenario, whichever is greater.)			
Level of Protection:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		
Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provided the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Alternative 1 Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 Brief Description		Include a description of pros/cons of Alternative 2.
Progress Report (for plan maintenance)			
Date of Status Report:	This section should be completed during plan maintenance/evaluation.		
Report of Progress:	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		

## Nassau County Multi-Jurisdictional Hazard Mitigation Plan

**Name of Jurisdiction:** Incorporated Village of Sea Cliff

### NYS DHSES Action Worksheet

Project Name:	Boardwalk/Bulkheading		
Project Number:	VSC_2		
<b>Risk / Vulnerability</b>			
Hazard of Concern:	Coastal Hazards - Sea Level Rise		
Description of the Problem:	Rising sea levels are threatening the Boardwalk and the hillside beyond, threatening residences and businesses.		
<b>Action or Project Intended for Implementation</b>			
Description of the Solution:	Install higher seawalls and raise the Boardwalk to protect the waterfront area.		
Is this project related to a Critical Facility?		Yes	No
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	National Climate Assessment intermediate-high sea level rise scenario (~4' of local sea-level rise by 2100)	Estimated Benefits (losses avoided):	Public access to the waterfront and an estimated \$10,000,000 in avoided losses
Useful Life:	25 - 50 Years		
Estimated Cost:	\$10,000,000		
<b>Plan for Implementation</b>			
Prioritization:	High	Desired Timeframe for Implementation:	5-10 years
Estimated Time Required for Project Implementation:	5-10 years	Potential Funding Sources:	Federal / State Grants
Responsible Organization:	Village of Sea Cliff	Local Planning Mechanisms to be Used in Implementation, if any:	
<b>Three Alternatives Considered (including No Action)</b>			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Relocate waterfront homes and businesses away from the shoreline and turn the waterfront area into a park.	To be determined	While this option would eliminate the risk of sea level rise and storm surge damaging property, it is likely the costliest option.
	Elevate waterfront properties and install green infrastructure to reduce coastal flooding.	To be determined	This option would reduce the flood risk of waterfront property without installing hard infrastructure that could change the flow of water.
<b>Progress Report (for plan maintenance)</b>			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

## Instructions

(Name of Jurisdiction)

NYS DHSES Action Worksheet			
Project Name:	Each action must have a unique project number referenced here and in the Action Tables.		
Project Number:	Each action must have a unique project name referenced here and in the Action Tables.		
Risk / Vulnerability			
Hazard of Concern:	Identify the hazard being addressed with this action.		
Description of the Problem:	Provide a detailed narrative of the problem. Describe the natural hazard you wish to mitigate, its impacts to the jurisdiction, past damages and loss of service, etc. Include the street address of the property/project location (if applicable), adjacent streets, and easily identified landmarks such as water bodies and well-known structures, and end with a brief description of existing conditions (topography, terrain, hydrology) of the site.		
Action or Project Intended for Implementation			
Description of the Solution:	Provide a detailed narrative of the solution. Describe the physical area (project limits) to be affected, both by direct work and by the project's effects; how the action would address the existing conditions previously identified; proposed construction methods, including any excavation and earth-moving activities; where you are in the development process (e.g., are studies and/or drawings complete), etc., the extent of any analyses or studies performed (attach any reports or studies).		
Is this project related to a Critical Facility?		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 worst damage scenario, whichever is greater.)			
Level of Protection:	Identify the level of protection the proposed project will provide. Ex. 100-year (1%) flood.	Estimated Benefits (losses avoided):	Identify the benefits that implementation of this project will provide. If dollar amounts are known, include them. If dollar amounts are unknown or are unquantifiable, describe the losses that will be avoided.
Useful Life:	Identify the number of years the project will provide protection against the hazard.		
Estimated Cost:	Identify all estimated costs associated with implementation.		
Plan for Implementation			
Prioritization:	Identify the priority based on the prioritization method agreed upon.	Desired Timeframe for Implementation:	Identify the desired start time for this project. Ex. Within 6 months.
Estimated Time Required for Project Implementation:	Provide the estimated time required to complete the project from start to end.	Potential Funding Sources:	Multiple sources of potential funding should be listed when appropriate.
Responsible Organization:	Identify the name of a department or agency responsible for implementation, not the jurisdiction.	Local Planning Mechanisms to be Used in Implementation, if any:	Consider the use of local planning mechanisms that will be used to implement this project.
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Alternative 1 Brief Description		Include a description of pros/cons of Alternative 1.
	Alternative 2 Brief Description		Include a description of pros/cons of Alternative 2.
Progress Report (for plan maintenance)			
Date of Status Report:	This section should be completed during plan maintenance/evaluation.		
Report of Progress:	Describe what progress, if any, has been made on this project. If it has been determined the jurisdiction no longer wishes to pursue implementation, state that here and indicate why.		
Update Evaluation of the Problem and/or Solution:	Provide an updated description of the problem and solution, and what has happened since initial consideration/development.		