

City of Glen Cove Annex

This document presents the City of Glen Cove’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.

Primary Point of Contact	Alternate Point of Contact
Mayor Timothy Tenke, Mayor City of Glen Cove 9 Glen Street Glen Cove, NY 11542 ttenke@glencoveny.gov 516-676-2004	Maureen Basdavanos, Deputy Mayor City of Glen Cove 9 Glen Street Glen Cove, NY 11542 mbasdavanos@glencoveny.gov 516-676-2000

Profile

The City of Glen Cove covers approximately 6.66 square miles¹ and has a total population of 27,166 according to the American Community Survey 5-year 2018 Estimates. Some of the demographics of the City of Glen Cove 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: City of Glen Cove Demographic Information

Demographic		Demographic	
Below 5 Years Old	6.7%	Black or African American alone	8.7%
Above 65 Years Old	18.0%	American Indian and Alaska Native alone	0.7%
Individuals with Disabilities	5.5%	Asian alone	5.0%
Persons in Poverty	14.1%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	49.2%	Two or More Races	2.9%
Without a High School Diploma	19.5%	White alone, not Hispanic or Latino, percent	54.3%
Without Access to Broadband Internet	15.4%	Hispanic or Latino	27.3%

¹ This is inclusive of land area only.

Glen Cove continues to grow in population and development. Currently, there are three major development projects underway; Garvies Point, The Villas, and One Village Square. These projects will increase the current apartment stock by over 1,000 units combined. This will add to the current population and will bring with it additional commercial business opportunities to the area. In the past five years, Garvies Point and One Village Square have been started and are nearing completion. Two buildings in the early stages of the Garvies Pint project are currently occupied by tenants. The Garvies Point project is almost exclusively being developed in the 100-year floodplain. This project will continue in the coming five years. The jurisdiction continues to maintain zoning and a planning team. 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 City of Glen Cove. The jurisdiction identified coastal hazards, flooding, and wind as the natural hazards that most 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 City of Glen Cove include: **Coastal Hazards, Flooding, and Wind.**

Table 2: City of Glen Cove Hazard Impacts

Hazard	Impact Categories
Coastal Hazards	Community, Natural and Cultural Resources
Drought	No Impact
Extreme Temperatures	Community
Flooding	Community, Infrastructure, Natural and Cultural Resources
Ground Failure	Natural and Cultural Resources
Hurricane and Tropical Storms	Community, Natural and Cultural Resources
Hail	Community
Lightning	Community
Severe Winter Weather	Community

Hazard	Impact Categories
Tornados	Community, Health and Social Services, Housing, Infrastructure, Natural Cultural Resources
Wind	Community

Capability Assessment

This section summarizes the capabilities that the City of Glen Cove 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 City of Glen Cove. The City of Glen Cove maintains several key administrative and technical capabilities to support mitigation, including building codes, capital improvement plans, community development plans, comprehensive plans/master plans, site plan review requirements, and zoning ordinances. These capabilities are critical to consider as tools in developing and implementing mitigation strategies. To further enhance their mitigation capabilities, the City can consider the capabilities in the table below that the City 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: City of Glen Cove Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (if applicable)
Access and Functional Needs Plan	No	
Building Code	Yes	Glen Cove Code of Ordinance
Capital Improvement Plan	Yes	Glen Cove Capital Improvement Plan
Climate Action Plan	No	
Community Development Plan	Yes	CDA Plan
Comprehensive Plan / Master Plan	Yes	Glen Cove Master Plan
Economic Development Plan(s)	No	
Emergency Response Plan(s)	No	
Floodplain Management Plan(s)	No	
Growth Management Plan(s)	No	
NFIP Flood Damage Prevention Ordinance(s)	No	
Open Space Plan(s)	No	
Post Disaster Recovery Ordinance(s)	No	
Post Disaster Recovery Plan(s)	No	

Regulatory Tool	Yes / No	Citation (if applicable)
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	Building Department Policy
Small Area Development Plan(s)	No	
Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	No	
Subdivision Ordinance(s)	No	
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	Glen Cove Code of Ordinance

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the City of Glen Cove. The City of Glen Cove's primary administrative and technical capabilities include an emergency manager, building and infrastructure engineers, grant writers, and construction practices personnel. These capabilities provide the City with a wide range of technical capabilities. The City can bolster their capabilities in this category by identifying individuals with expertise in land use and natural hazards planning.

Table 4: City of Glen Cove Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Director of Emergency Management
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	Director of Building Department
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	CDA Director
Personnel skilled or trained in Geographic Information Systems	No	
Personnel trained in construction practices related to buildings/infrastructure	No	Director of Building Department

Staff / Personnel Resource	Yes / No	Details
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 City of Glen Cove. Funding is often the biggest barrier when implementing mitigation programs. The City is primarily able to fund mitigation programs by incurring debt through general obligation bonds and special tax bonds, levying taxes for specific purposes, withholding public expenditures in hazard prone areas, capital improvements project funding, CDBG programs, impact fees for home buyers and/or developers, and state mitigation grant programs. City of Glen Cove should consider exploring additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: City of Glen Cove Existing Fiscal Capabilities

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

Community Classification Assessment

Table 6 lists the assessment of existing community classifications for the City of Glen Cove. Exploring gaining one or more community classifications will guide the City's mitigation programs and support capacity building.

Table 6: City of Glen Cove 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	No

National Flood Insurance Program Summary

The flood prone areas in the City include low lying areas on the North Shore that abut the Long Island Sound. These areas include the land surrounding the Glen Cove Creek, land adjacent to Crescent Beach, and the land that constitutes Pryibil's Beach. This section provides a summary of the floodplain management capabilities for City of Glen Cove and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP).

The City's Building Director is responsible for floodplain management. The City administers the NFIP through building permit and site plan review. The City noted that education was a current barrier to running a successful NFIP program. The flood maps for this jurisdiction accurately portray the current flood risk. There are currently no RiskMAP projects ongoing in this jurisdiction.

No properties in the jurisdiction have been substantially damaged as a result of recent flood events. The City of Glen Cove is in good standing with the NFIP. Based on documentation received from NYSDEC, the City had its last Community Assistance Contact on 02/28/2020 and its last Community Assistance Visit on 06/26/2015. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

The Flood Damage Prevention Ordinance was last amended 07/28/2009 and can be referenced in Chapter 154, City Code, L.L. No. 6-2009.

Mitigation Strategy

The following section provides an overview of the mitigation strategy for City of Glen Cove. It provides an overview of the jurisdiction's previous mitigation actions, proposed actions, and the NYS mitigation worksheets.

Previous Mitigation Actions

Action	Conduct an infrastructure analysis and design process for East Island Tidegates and Pryill Beach Sluiceway.	Construct and install the recommended infrastructure improvements.
Risk Category	Flooding	Flooding
Project Status	Completed	Not Started
Project Status Description	The analysis and design have been undertaken and completed.	The project was not completed but is currently scheduled to begin.
Carried Forward to 2020 Plan	No	Yes
Required Changes	None	Yes. We need to complete the repairs.

Proposed Mitigation Actions

Project Number	CGC_1	CGC_2	CGC_3
Project Name	Morgan Island Bridge Sluiceway Repair	Morgan Park Sea Wall Evaluation Study	Sea Cliff Ave. Flood Mitigation
Goal being met	3	3, 5	1, 3
Hazards to be mitigated	Flooding	Flooding and Erosion	Flooding
Priority Ranking	High	High	High
Description of the Problem	The tide control gates are in disrepair and not functioning correctly	The sea wall at Morgan Park has been continuously damaged during storms. This has caused large granite rocks to shift, and they are now susceptible to undermining. The damage has also resulted in erosion of the land behind the seawall to the point where it is not being properly retained and has the potential to slide. This has caused erosion in the area and has compromised to real property above the sea wall.	The roadway on Sea Cliff Ave is prone to flooding
Description of the Solution	Repair gates	Explore numerous sustainable options to retain the real property above the sea wall and slow or stop the erosion process. This study would find the most viable course of action for the City of Glen Cove to repair the entire system; sea wall, retaining walls and hillside erosion controls	Increase the storm drainage capacity in this area so that the creek and roadway can properly drain.
Critical Facility	No	No	No
EHP Issues	NA	NA	NA
Estimated Timeline	1 Year	One year	One Year
Lead Agency	TBD	Department of Public Works	Department of Public Works
Estimated Costs	\$5,000,000	\$1,000,000	\$800,000
Estimated Benefits	Control flooding in Dosoris Pond and surrounding properties	\$15,000,000	Control flooding on roadway / \$1,000,000
Potential Funding Sources	Local Budgets / Bonds?	Department of Public works and/or Building Department	FEMA Hazard Mitigation Assistance

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: City of Glen Cove

NYS DHSES Action Worksheet			
Project Name:	Sea Cliff Ave Flood Correction		
Project Number:	CGC_3		
Risk / Vulnerability			
Hazard of Concern:	Flood		
Description of the Problem:	The low-lying area of Sea Cliff Ave is prone to flooding during storm events. The area has a small creek that runs perpendicular to the roadway and the creek is prone to flooding during storm events and spills onto the roadway making it unpassable.		
Action or Project Intended for Implementation			
Description of the Solution:	Increase the storm drainage capacity in this area so that the creek and roadway can properly drain.		
Is this project related to a Critical Facility?	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 worst damage scenario, whichever is greater.)			
Level of Protection:	10 year flood	Estimated Benefits (losses avoided):	\$1,000,000
Useful Life:	30 years		
Estimated Cost:	\$800,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Six months
Estimated Time Required for Project Implementation:	One year	Potential Funding Sources:	FEMA Hazard Mitigation Assistance
Responsible Organization:	Department of Public Works	Local Planning Mechanisms to be Used in Implementation, if any:	Building Department
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Repair drainage for roadway only	\$200,000	This would assist in minor floods, but a major flood involving the creek would inundate this repair.
	Repair drainage for creek only	\$400,000	This would resolve major flooding issues, but would not address roadway flooding.
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: City of Glen Cove

NYS DHSES Action Worksheet			
Project Name:	Morgan Park Seawall Evaluation Study		
Project Number:	CGC_2		
Risk / Vulnerability			
Hazard of Concern:	Flooding and Erosion		
Description of the Problem:	The sea wall at Morgan Park has been continuously damaged during storms. This has caused large granite rocks to shift, and they are now susceptible to undermining. The damage has also resulted in erosion of the land behind the seawall to the point where it is not being properly retained and has the potential to slide. This has caused erosion in the area and has compromised to real property above the sea wall.		
Action or Project Intended for Implementation			
Description of the Solution:	Explore numerous sustainable options to retain the real property above the sea wall and slow or stop the erosion process. This study would find the most viable course of action for the City of Glen Cove to repair the entire system; sea wall, retaining walls and hillside erosion controls.		
Is this project related to a Critical Facility?	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 worst damage scenario, whichever is greater.)			
Level of Protection:	Ten-year flood	Estimated Benefits (losses avoided):	\$15,000,000
Useful Life:	Ten years		
Estimated Cost:	\$1,000,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Six months
Estimated Time Required for Project Implementation:	One Year	Potential Funding Sources:	Department of Public works and/or Building Department
Responsible Organization:	Department of Public Works	Local Planning Mechanisms to be Used in Implementation, if any:	Building Department
Three Alternatives Considered (including No Action)			
Alternatives:	<i>Action</i>	<i>Estimated Cost</i>	<i>Evaluation</i>
	No Action	\$0	
	Basic Repair	\$200,000	The study will explore several sustainable options for mitigating the erosion in the Morgan Park area.
	Repair sea wall and drainage	\$2,000,000	Make repairs to the existing sea wall and install drainage to dissipate the sea water and mitigate erosion.
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:	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.		