Village of Island Park Annex

This document presents the Village of Island Park'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
Michael McGinty, Mayor Village of Island Park 127 Long Beach Road Island Park, NY 11558 micjean@aol.com 516-815-5326	John Isola, Deputy Village Treasurer Village of Island Park 127 Long Beach Road Island Park, NY 11558 jisola@villageofislandpark.com 516-815-5326

Profile

The Village of Island Park covers approximately 0.37 square miles[1] and has a total population of 4,765 according to the American Community Survey 5-Year 2018 Estimates. Some of the demographics of the Village of Island Park 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 Island Park Demographic Information

Demographic		Demographic	
Below 5 Years Old	7.9%	Black or African American alone	0.3%
Above 65 Years Old	17.7%	American Indian and Alaska Native alone	0.4%
Individuals with Disabilities	Information not provided	Asian alone	2.1%
Persons in Poverty	8.9%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	33.3%	Two or More Races	2.8%
Without a High School	8.7%	White alone, not Hispanic or Latino,	65.7%

[1] This is inclusive of land area only.

Demographic		Demographic	
Diploma		percent	
Without Access to Broadband Internet	0.0%	Hispanic or Latino	0.0%

The Village of Island Park continues to rebuild post-Super Storm Sandy. To-date, 186 residential buildings have been raised on monolithic foundations. Due to the geographical location of this jurisdiction, all efforts and projects have been occurring in the 100-year floodplain. The Village is currently carving out three areas for potential develop: Long Beach Road, Quebec Road, and Business District. The jurisdiction is currently engaged in a planning study to assess future zoning and development. 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

The hazards that most impact the Village of Island Park include: **Coastal Hazards, Flooding, and Ground Failure.**

This section summarizes how the natural hazards profiled in Section 4 of this plan impact the Village of Island Park. The jurisdiction identified Coastal Hazards, Flooding, Ground Failure 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.

Table 2: Village of Island Park Hazard Impacts

Hazard	Impact Categories
Coastal Hazards	No Impact
Drought	No Impact
Extreme Temperatures	Housing, Infrastructure, Natural and Cultural Resources

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

Capability Assessment

This section summarizes the capabilities that the Village of Island Park 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 Island Park. The Village of Island Park maintains several key administrative and technical capabilities to support mitigation, including access and functional needs plan, building codes, climate action plans, community development plans, comprehensive plans/master plans, emergency response plans, growth management plans, NFIP flood damage prevention ordinances, open space plans, post disaster recovery ordinances, post disaster recovery plans, resilience 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 Island Park Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (*if applicable*)
Access and Functional Needs Plan	Yes	Village of Island Park
Building Code	Yes	Village Municipal Code
Capital Improvement Plan	No	
Climate Action Plan	Yes	HMGP Grant Program
Community Development Plan	Yes	Village Building and Zoning Codes
Comprehensive Plan / Master Plan	No	
Economic Development Plan(s)	No	
Emergency Response Plan(s)	Yes	Village / IPFD / NCOEM
Floodplain Management Plan(s)	Yes	Village / HMGP / NCOEM
Growth Management Plan(s)	Yes	Building and Zoning Codes
NFIP Flood Damage Prevention Ordinance(s)	Yes	All Property Retains Flood Insurance
Open Space Plan(s)	Yes	Municipal Code
Post Disaster Recovery Ordinance(s)	Yes	Municipal Code
Post Disaster Recovery Plan(s)	Yes	Village/ IPFD/NCOEM
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	Yes	Village / Homeland Security /NCOEM
Site Plan Review Requirement(s)	Yes	Village / Building Codes, Zoning
Small Area Development Plan(s)	No	
Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	Yes	Village, NCOEM, HMGP
Subdivision Ordinance(s)	Yes	
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	Municipal Code - Ordinance # 51

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Island Park. The Village of Island Park has a high level of primary administrative and technical capabilities to support mitigation. This includes management, engineering, grant writing, GIS analysis, and planning. Increasing training capacity and expertise of these individuals will support mitigation practice in the Village.

Table 4: Village of Island Park Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Mayor Michael McGinty
Engineer(s) trained in construction practices related to buildings/infrastructure	Yes	John Rocco
Engineer(s) with an understanding of natural and/or human caused hazards	Yes	Walden Environmental Engineering
Engineer(s) with knowledge of land development and land management practices	Yes	Cameron Engineering
Grant Writers	Yes	Michael McGinty
Personnel skilled or trained in Geographic Information Systems	Yes	Walden Engineering
Personnel trained in construction practices related to buildings/infrastructure	Yes	John Rocco
Planner(s) with an understanding of natural hazards	Yes	Cameron Engineering
Planner(s) with knowledge of land development and land management practices	Yes	Michael McGinty
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 Island Park. Funding is often the biggest barrier when implementing mitigation programs. The Village is primarily able to fund mitigation programs by incurring debt through general obligation bonds, levying taxes for specific purposes, capital improvements project funding, CDBG programs, and state mitigation grant programs. Village of Island Park should consider explore additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Island Park 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 dept through special tax bonds	No	
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	No	
Capital improvements project funding	Yes	
Community Development Block Grants (CDBG)	Yes	46th Year of CDBG Funding
Impact fees for home buyers and/or developers	No	
State mitigation grant programs	Yes	NYS DEC

Community Classification Assessment

Table 6 lists the assessment of existing community classifications for the Village of Island Park. Participation in the CRS 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 Island Park Community Classifications

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

National Flood Insurance Program Summary

This section provides a summary of the floodplain management capabilities for Village of Island Park and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP). The entire Village is flood-prone and is located in the 100-Year floodplain, which has a 1% chance of flooding in any given year.

The Village designated Walden Engineering to be responsible for floodplain management. The engineering firm has a certified floodplain manager on staff. Additional FEMA and Community Rating System training will support the growth of the Village's floodplain management program. The Village administers the NFIP through education, site plan review, and building and zoning permit review. The Village did not note any current barriers 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.

After flood events, substantial damage determinations are made through in-person site inspections. No properties in the jurisdiction have been substantially damaged as a result of recent flood events.The Village of Island Park is in good standing with the NFIP. Based on documentation received from NYSDEC, the Village had its last Community Assistance Contact on 12/01/2012 and its last Community Assistance Visit on 04/20/2019. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

To reduce future losses due to flood, 186 residences on monolithic foundations have been elevated. The Flood Damage Prevention Ordinance for the Village of Island Park exceeds minimum requirements. The ordinance was last amended 2019 and can be referenced in Local Law 2019; specifics to follow.

Mitigation Strategy

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

Previous Mitigation Actions

Action	Bulkhead replacement at "Little Beach"	Emergency generator installation at Village Hall	Bulkhead replacement at Redfield Rd, Norfolk Rd and Rizkin Pl.	Emergency generator installation at DPW facilities	Rebuild existing infrastructure, including drainage, bulkhead outfalls and roadway elevations
Risk Category	Flooding	Extreme weather	Flooding	Extreme weather	Flooding
Project Status	In Progress	Completed	Temporarily Completed	Completed	Phase 1 Completed Phase 2 Continuing
Project Status Description	The initial design phase is in process. The required permits have been requested from the NYS-DEC. The Capital funding is in place. At this time the project is not reimbursable. The estimated cost approaches one million dollars.	The original Village Hall has been demolished. The present Village Hall resides at the former Bank of America location (147 Long Beach Road, Island Park). The emergency generator has been installed on the roof of the current Village Hall.	The bulkheads at Norfolk Road / Rizkin Pl and at Redfield / Marion Road have been raised approximately two feet in height	The installation of the emergency generator at DPW included the removal and replacement of the fuel tanks at the DPW location. The estimated cost was $4000,000	Phase 1 included the hydraulic cleaning of approximately 39,000 linear feet of lateral storm drain. The cleaning of approximately three hundred and twenty-five storm drain boxes. It included CTVV Mapping and a modeling study. Phase 2 includes the design and engineering of the entire project, now at thirty percent completion. Funding is approximately $6,000,000
Carried Forward to 2020 Plan	Yes	No	No	No	Yes
Required Changes	No	N/A (Completed)	No	N/A (Completed)	No

Proposed Mitigation Actions

Project Number	VIP_1	VIP_2	VIP_3
Project Name	Rebuild existing infrastructure, including drainage, bulkhead outfalls, and roadway elevations	Bulkhead replacement at "Little Beach"	Resiliency and Hardening Emergency Management Center at Island Park Fire Department (IPFD)
Goal being met	1, 2, 3		1, 2, 3
Hazards to be mitigated	Severe Storms, Tidal Flooding	Flooding	Severe Storms, Tidal Flooding
Priority Ranking	High	High	High
Description of the Problem	The storm surge of Super Storm Sandy dealt an incredible amount of damage to the Village of Island Park. In some places, the storm surge was as high as 65 inches. Around Eleven thousand and thirty of the Village's Eleven thousand and forty-four residents experienced substantial flooding, and the Village's critical infrastructure, including the fire department Public Works garage and Village Hall, were affected as well. In the aftermath of Sandy, the Village also started to experience increasingly higher tides than before.	The current bulkhead at Little Beach provides insufficient protection to area residents, property, and infrastructure	There are severe tidal and flooding issues due to insufficient lateral storm drains and drain boxes. The tidal flex valves installed in 1995 are failing.
Description of the Solution	Reconstruction of the lateral drain system, installation of tidal flex valves, and installation of a pump station. A cost-benefit analysis for this project resulted in a score of 1.67, showing that the benefits of the solution would be well worth the cost of the project.	A complete replacement of the current bulkhead	Resiliency and hardening of the Emergency Management Center located at the island park fire department. This includes dry floodproofing of the perimeter of the island park fire department to 500-Year flood level
Critical Facility	Yes	No	Yes
EHP Issues	Unknown	Unknown	Unknown
Estimated Timeline	3 Years	Target Date: 2014 Status: In Progress	Phase 1 is complete, Phase 2 is ongoing 6 Months

Project Number	VIP_1	VIP_2	VIP_3
		Estimated Timeline: 2 Years	
Lead Agency	DHSES / FEMA	Village of Island Park	Incorporated Village of Island Park
Estimated Costs	$40,000,000	To be determined	$1,950,000
Estimated Benefits	BCA = 1.67	Prevention of flooding	Benefits exceed $2,000,000
Potential Funding Sources	FEMA HMGP	HMG funds	GOSR; Village Capital Bond issue (if additional money is required)

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 Island Park

NYS DHSES Action Worksheet			
Project Name:	Resiliency and Hardening Emergency Management Center at Island Park Fire Department (IPFD)		
Project Number:	VIP_3		
Risk / Vulnerability			
Hazard of Concern:	Severe Storm and Tidal Flooding		
Description of the Problem:	There are severe tidal and flooding issues due to insufficient lateral storm drains and drain boxes. The tidal flex valves installed in 1995 are failing.		
Action or Project Intended for Implementation			
Description of the Solution:	Resiliency and hardening of the Emergency Management Center located at the island park fire department. This includes dry floodproofing of the perimeter of the island park fire department to 500-Year flood level.		
Is this project related to a Critical Facility?	Yes	X	No
(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:	500-Year Flood Event	Estimated Benefits (losses avoided):	Benefits exceed $2,000,000
Useful Life:	Excess of 50 Years		
Estimated Cost:	$1,950,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	ASAP
Estimated Time Required for Project Implementation:	6 months	Potential Funding Sources:	GOSR; Village Capital Bond issue (if additional money is required)
Responsible Organization:	Incorporated Village of Island Park	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Resiliency and hardening sans dry floodproofing	$1,500,000	Insufficient Solution
	Resiliency and hardening to include dry floodproofing	$1,950,000	Mitigation of flooding to weather and tidal conditions
Progress Report (for plan maintenance)			
Date of Status Report:	July 24, 2020		
Report of Progress:	July 24, 2020		
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 ☐	No	
(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:	*Action*	*Estimated Cost*	*Evaluation*
	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 Island Park

NYS DHSES Action Worksheet			
Project Name:	Rebuild existing infrastructure, including drainage, bulkhead outfalls, and roadway elevations		
Project Number:	VIP_1		
Risk / Vulnerability			
Hazard of Concern:	Severe Storm and Tidal Flood		
Description of the Problem:	The storm surge of Super Storm Sandy dealt an incredible amount of damage to the Village of Island Park. In some places, the storm surge was as high as 65 inches. Around Eleven thousand and thirty of the Village's Eleven thousand and forty-four residents experienced substantial flooding, and the Village's critical infrastructure, including the fire department Public Works garage and Village Hall, were affected as well. In the aftermath of Sandy, the Village also started to experience increasingly higher tides than before.		
Action or Project Intended for Implementation			
Description of the Solution:	Reconstruction of the lateral drain system, installation of tidal flex valves, and installation of a pump station. A cost-benefit analysis for this project resulted in a score of 1.67, showing that the benefits of the solution would be well worth the cost of the project.		
Is this project related to a Critical Facility?	Yes: X		No:
(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:	500-Year Flood Event	Estimated Benefits (losses avoided):	BCA = 1.67
Useful Life:	50 Years		
Estimated Cost:	$40,000,000		
Plan for Implementation			
Prioritization:	High		
Estimated Time Required for Project Implementation:	3 years	Potential Funding Sources:	FEMA HMGP
Responsible Organization:	DHSES / FEMA	Local Planning Mechanisms to be Used in Implementation, if any:	N / A
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	Not Acceptable
	Installation of a new bulkhead	$250,000	Insufficient
	Installation of Gabions	$500,000	Does not directly address the problem
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 ☐	No	
(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:	*Action*	*Estimated Cost*	*Evaluation*
	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.		