Village of Valley Stream Annex

This document presents the Village of Valley Stream'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
Jay Hunter, Deputy Village Clerk Village of Valley Steam 123 South Central Avenue Valley Stream, NY 11580 vsdpclrk@vsvny.org 516-592-5104	Frank Roca, Emergency Management Coordinator Village of Valley Steam 123 South Central Avenue Valley Stream, NY 11580 vsfpb@vsvny.org 516-592-5147

Profile

The Village of Valley Stream covers approximately 3.48 square miles[1] and has a total population of 37,431 according to the American Community Survey 5-Year 2018 Estimates. Some of the demographics of the Village of Valley Stream 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 Valley Stream Demographic Information

Demographic		Demographic	
Below 5 Years Old	5.0%	Black or African American alone	27.6%
Above 65 Years Old	13.7%	American Indian and Alaska Native alone	0.0%
Individuals with Disabilities	6.0%	Asian alone	15.4%
Persons in Poverty	4.4%	Native Hawaiian and other Pacific Islander alone	0.0%
Renters	18.6%	Two or More Races	4.6%
Without a High School Diploma	9.5%	White alone, not Hispanic or Latino, percent	31.0%
Without Access to Broadband Internet	0.0%	Hispanic or Latino	22.9%

[1] This is inclusive of land area only.

The Village of Valley Stream has experienced a great deal of development in past years and has multiple large projects scheduled in the future. These projects include additions to the Green Acers Commons (i.e., supermarket, restaurant, and strip mall). Additionally, multiple dwellings are being constructed throughout the Village as well as a large self-storage facility. Further, plots of land are being subdivided into single-family dwellings. In the next five years, the Village hopes to develop and outdoor mall, multiple large dwellings, and self-storage facility. Currently, there are single- and multi-family dwellings within the flood plain. 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 Valley Stream. The jurisdiction identified Coastal Hazards, Flooding, and Hurricane as 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 Valley Stream include: **Coastal Hazards, Flooding, and Hurricane.**

Table 2: Village of Valley Stream Hazard Impacts

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

Hazard	Impact Categories
Wind	Community, Infrastructure

Capability Assessment

This section summarizes the capabilities that the Village of Valley Stream 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 Valley Stream. The Valley Stream maintains several key administrative and technical capabilities to support mitigation, including building codes, capital improvement plans, community development plans, floodplain management plans, NFIP floodplain damage prevention ordinances, 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 Valley Stream Existing Legal and Regulatory Capabilities

Regulatory Tool	Yes / No	Citation (*if applicable*)
Access and Functional Needs Plan	No	
Building Code	Yes	2020 NYS Fire & Building Code - Valley Stream General Code and Local zoning code
Capital Improvement Plan	Yes	Road & Culvert repair
Climate Action Plan	No	
Community Development Plan	Yes	CA Zone which permits Multiple Dwellings to be built in commercially zoned areas
Comprehensive Plan / Master Plan	No	
Economic Development Plan(s)	No	
Emergency Response Plan(s)	No	
Floodplain Management Plan(s)	Yes	Chapter 34 of the Village Code
Growth Management Plan(s)	No	
NFIP Flood Damage Prevention Ordinance(s)	Yes	Chapter 34 pf the Village Code
Open Space Plan(s)	No	
Post Disaster Recovery Ordinance(s)	No	

Regulatory Tool	Yes / No	Citation (*if applicable*)
Post Disaster Recovery Plan(s)	No	
Real Estate Disclosure Requirements	No	
Resilience Plan(s)	No	
Site Plan Review Requirement(s)	Yes	NYS Building Code and Valley Stream General Code and local zoning code
Small Area Development Plan(s)	No	
Special Purpose Ordinance(s)	No	
Stormwater Management Plan(s)	Yes	Chapter 76 of the Village Code
Subdivision Ordinance(s)	Yes	Chapter 99 of Village Zoning Code
Transportation Plan(s)	No	
Zoning Ordinance(s)	Yes	Valley Stream General Code and Zoning Code

Administrative and Technical Capability Assessment

Table 4 lists the assessment of existing administrative and technical tools for the Village of Valley Stream. The Village of Valley Stream's primary administrative and technical capabilities include an emergency manager, a NFIP floodplain administration, construction practices personnel, and natural hazards and land development planners. The Village can bolster their capabilities in this category by identifying individuals with expertise in engineering and analysis.

Table 4: Village of Valley Stream Existing Staff / Personnel Resource

Staff / Personnel Resource	Yes / No	Details
Emergency Manager(s)	Yes	Emergency Manager - Emergency Management Coordinator
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	No	
Personnel skilled or trained in Geographic Information Systems	No	
Personnel trained in construction practices related to buildings/infrastructure	Yes	Village Building Inspectors
Planner(s) with an understanding of natural hazards	Yes	Village Building Inspectors

Staff / Personnel Resource	Yes / No	Details
Planner(s) with knowledge of land development and land management practices	Yes	Department of Economic Development
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 Valley Stream. 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 and special tax bonds, levying taxes for specific purposes, capital improvements project funding, and CDBG programs. Village of Valley Stream should consider explore additional fiscal capabilities in order to gain access to additional funding for mitigation.

Table 5: Village of Valley Stream 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	Yes	Anticipation notes
Authority to levy taxes for specific purposes	Yes	Library Fund
Authority to utilize user fees for utility services	No	
Authority to withhold public expenditures in hazard prone areas	No	
Capital improvements project funding	Yes	Road & Culvert repair
Community Development Block Grants (CDBG)	Yes	Nassau County Consortium
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 Valley Stream. Participation in the BCEGS 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 Valley Stream Community Classifications

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

National Flood Insurance Program Summary

This section provides a summary of the floodplain management capabilities for Village of Valley Stream and how the jurisdiction is meeting the requirements of the National Flood Insurance Program (NFIP). Flood-prone areas in the Village include stormwater streams and ponds, AE zones designated on FEMA flood insurance rate maps, regulatory floodways, and other areas of flood hazard.

The Village's Engineer is responsible for floodplain management. FEMA Floodplain Management Training will further support the growth of the floodplain management program. All structures in special flood hazard areas within the Village of Valley Stream are required to secure a floodplain permit before any new construction, renovations, or repair work is permitted, whether due to flooding or any other type of damage. 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 in accordance with provisions listed in Village Code Chapter 34 and current adopted NYS Uniform Fire Prevention and Building Code.

The Village of Valley Stream is in good standing with the NFIP. Based on documentation received from NYSDEC, the Village had its last Community Assistance Contact on 05/20/2013 and its last Community Assistance Visit on 10/19/2011. There are no NFIP compliance violations that need to be addressed in this jurisdiction.

All structures in special flood hazard areas within the Village of Valley Stream are required to secure a floodplain permit before any new construction, renovations, or repair work whether due to flooding or any other type of damage, is permitted. The Flood Damage Prevention Ordinance for the Village of Valley Stream meets minimum requirements. The ordinance was last amended 08/17/2009 and can be referenced in Chapter 34 of Village Code.

Mitigation Strategy

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

Previous Mitigation Actions

Action	A permanent natural gas generator will be installed at 70 McKeon Ave. Valley Stream, NY 11580. It will have sufficient capacity to allow the facility to maintain all necessary patient needs.
Risk Category	Loss of Electric Power
Project Status	Completed
Project Status Description	In HMGP Grant Process
Carried Forward to 2020 Plan	No
Required Changes	Officially the generator has not been signed off by the Village of Valley Stream Building Department.

Proposed Mitigation Actions

Project Number	VVS_1	VVS_2	VVS_3	VVS_4
Project Name	Generator Replacement at All Village Firehouses	Hendrickson Park - Erosion/shoreline restoration	Management Plan of Storm Drains, Culverts, and Streams	Mill Pond - Erosion/shoreline restoration
Goal being met	2,3	1,5	1	1,5
Hazards to be mitigated	Hurricanes, high wind events, nor'easters, severe winter weather	Erosion & Flooding	Flooding	Erosion & Flooding
Priority Ranking	High	High	High	High
Description of the Problem	The generators in all the firehouses are at least 30 years old. Firehouses are a critical facility that provide lifesaving services to the village, in addition to providing a safe place for village residents to go in a time of disaster. Power outages threaten the capacity of these firehouses to continue to provide services in a time of emergency.	Overtime the stream erodes the shoreline and flooding begins to affect the upstream facilities	During heavy rainstorms, catch basins, culverts, and sewers become backed up due to debris. Small streams overflow their banks flooding some areas.	Overtime the stream erodes the shoreline and flooding begins to affect the upstream facilities
Description of the Solution	The Village is going to replace and upgrade all generators at Firehouses. These upgrades will increase our capacity to power the entire facility in times of disaster when the power grid is damaged.	Continue the erosion control program	The maintenance plan will include regular clearing and cleaning of basins, erosion management, partnering with Nassau County to investigate opportunities to expand the capacity of the stormwater management system, and increasing culvert capacity.	Continue the erosion control program
Critical Facility	Yes	Yes	No	Yes
EHP Issues	No	DEC permits	Yes	DEC permits
Estimated Timeline	1 - 2 Years	2 - 3 Years	5 Years	2 - 3 Years
Lead Agency	Village of Valley Stream Maintenance Department	Village of Valley Stream Department of Public Works	Village of Valley Stream Department of Public Works	Village of Valley Stream Department of Public Works
Estimated Costs	$41,8000	$100,000	$50,000 - $1,000,000	$75,000
Estimated Benefits	The increase in capacity will help the First Responders operate better due to the entire building being on back-up power instead of just a few circuits. This will also benefit the public who may utilize the building for charging electronics cooling/heating rooms and possibly storing refrigerated medicine in time of power loss	Could be in the Millions if bridges and roadways are washed out	Reducing flooding events saves damage to the infrastructure and buildings along with reducing risk to the public.	Could be in the Millions if bridges and roadways are washed out

Project Number	VVS_1	VVS_2	VVS_3	VVS_4
Potential Funding Sources	Municipal Fiscal Budget	Nassau County DPW	Fiscal Budget	Nassau County DPW

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: Village of Valley Stream

NYS DHSES Action Worksheet			
Project Name:	Stormwater Management Plan of Storm Drains, Culverts, and Streams		
Project Number:	VVS_3		
Risk / Vulnerability			
Hazard of Concern:	Flooding		
Description of the Problem:	During heavy rainstorms, catch basins, culverts, and sewers become backed up due to debris over time. Small streams overflow their banks flooding some areas.		
Action or Project Intended for Implementation			
Description of the Solution:	Through the Stormwater Management Plan, the Village Department of Public Works (DPW) will continue to perform routine maintenance of clearing and cleaning out basins. The village will also continue to engage in an erosion plan to make sure the streams and waterways flow smoothly. The village will explore opportunities to partner with Nassau County and NYS DEC to determine how the Village's stormwater runoff can be managed and improved to decrease flooding potential. Some possible solutions may include increasing catch basin sizes and expanding the capacity of the culverts.		
Is this project related to a Critical Facility?	Yes		No x
(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:	Medium	Estimated Benefits (losses avoided):	Reducing flooding events saves damage to the infrastructure and buildings along with reducing risk to the public.
Useful Life:	Eight to ten years		
Estimated Cost:	$50,000 up to over $1,000,000 if culverts need to be increased		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Immediate
Estimated Time Required for Project Implementation:	Five years	Potential Funding Sources:	Fiscal Budget
Responsible Organization:	Village of Valley Stream Department of Public Works	Local Planning Mechanisms to be Used in Implementation, if any:	

Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	No Action	$0	
	Divert water flow to different streams	$100,000 - $200,000 depending on scope of project	May not be feasible due to limited land use
	Construct some sort of Dam system to limit water flow	$1,000,000 - $2,000,000	Could complicate flooding up above the dam and endanger other areas

Progress Report (for plan maintenance)	
Date of Status Report:	6/22/2020
Report of Progress:	On-going
Update Evaluation of the Problem and/or Solution:	The program has alleviated some flooding, but the system can only accommodate a certain amount of run-off at a time

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: Village of Valley Stream

NYS DHSES Action Worksheet			
Project Name:	Generator Replacement at All Village Firehouses		
Project Number:	VVS_1		
Risk / Vulnerability			
Hazard of Concern:	Power Loss due to Hurricanes, High Wind events, Nor'easters, Severe Weather Events and Blackouts.		
Description of the Problem:	The generators in all the firehouses are at least 30 years old. Firehouses are a critical facility that provide lifesaving services to the village, in addition to providing a safe place for Village residents to go in a time of disaster. Power outages threaten the capacity of these firehouses to continue to provide services in a time of emergency.		
Action or Project Intended for Implementation			
Description of the Solution:	The Village is going to replace and upgrade all generators at Firehouses. These upgrades will increase our capacity to power the entire facility in times of disaster when the power grid is damaged.		
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:	Power outages	Estimated Benefits (losses avoided):	The increase in capacity will help the First Responders operate better due to the entire building being on back-up power instead of just a few circuits. This will also benefit the public who may utilize the building for charging electronics cooling/heating rooms and possibly storing refrigerated medicine in time of power loss.
Useful Life:	25-30 years		
Estimated Cost:	$418,000		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	2021
Estimated Time Required for Project Implementation:	One to two years	Potential Funding Sources:	Municipal Fiscal Budget
Responsible Organization:	Village of Valley Stream Maintenance Department	Local Planning Mechanisms to be Used in Implementation, if any:	
Three Alternatives Considered (including No Action)			
Alternatives:	*Action*	*Estimated Cost*	*Evaluation*
	Could rent a full size generator or use portable units	$20,000-$40,000 depending on length of outage	Would take time to set up in a sudden power loss or unable to obtain units
	Use solar panels system and battery storage	$50,000-$150,000 depending on size and number of panels	Could possibly work in short term but for extend operations or weather conditions might not be feasible
	No action	$0	None
Progress Report (for plan maintenance)			
Date of Status Report:	6/22/2020		

Report of Progress:	Three of the six are complete.
Update Evaluation of the Problem and/or Solution:	The program has had a positive impact on the usability of the Fire houses. Apparatus doors open now on back-up power and all usable parts of the firehouse have electric, heat and A/C.

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.		