



9.10 Village of Mastic Beach

This section presents the jurisdictional annex for the Village of Mastic Beach.

9.10.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
Name: Bill Biondi Address: 427 Neighborhood Road, Mastic Beach, NY 11951 Phone Number: 631-281-2326 Email address: mbvillagemayor@gmail.com	Name: Robert Morrow Address: 427 Neighborhood Road, Mastic Beach, NY 11951 Phone Number: 631-281-2326 Email address: telephoneman1022@aol.com

9.10.2 Municipal Profile

This section provides a summary of the community. Additional community profiling information, including geographic area and data, general demographics, income and poverty, employment and housing may be found in the Village’s New York Rising Community Reconstruction Program Conceptual Plan available at:

http://stormrecovery.ny.gov/sites/default/files/crp/community/documents/mastic_beach_smith_point_of_s_hirley_conceptual_plan.pdf.

Population

According to the U.S. Census, the 2010 population for the Village of Mastic Beach was 14,841.

Location

Mastic Beach and Smith Point of Shirley are located on a peninsula in the southern portion of the Town of Brookhaven, surrounded by Bellport Bay, Narrow Bay and Moriches Bay. The Village of Mastic Beach is approximately 4.8 square miles with elevations ranging from zero to approximately 35 feet (NAVD 88). Neighboring communities include the hamlets of Mastic and Moriches and the northern portion of the hamlet of Shirley.

Brief History

Mastic Beach and Smith Point of Shirley were originally developed in the 1920s as affordable summer home communities designed for New York City’s working class. Several years later, the existing pattern of development began to take shape when Walter T. Shirley purchased approximately 10,000 acres of undeveloped land and created large-scale subdivision development plans. From 1945 to 1962, Shirley filed over 45 subdivision maps, which played a major role in developing the existing road network and pattern of circulation.

The Village of Mastic Beach was incorporated in November 2010. The Village was established based largely upon local resident’s desire to enact and implement their own land use decisions, to remedy the disconnect between the Town’s zoning districts and the actual pattern of land uses in the Village, to protect and preserve community identity, and to obtain the authority to guide future development. Prior to incorporation as a Village, Mastic Beach was a hamlet within the Town of Brookhaven.



Governing Body Format

Mayor and Board of Trustees

Growth/Development Trends

None identified at this time.

Table 9.10-1. Growth and Development

Property Name	Type (Residential or Commercial)	Number of Structures	Location (address and/or Parcel ID)	Known Hazard Zone*	Description / Status
None identified at this time					

* Only location-specific hazard zones or vulnerabilities identified.

9.10.3 Natural Hazard Event History Specific to the Municipality

Suffolk County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. The table below presents a summary of natural events that have occurred to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources. For details of events prior to 2008, refer to Volume I, Section 5.0 of this plan.

Table 9.10-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	Suffolk County Designated?	Summary of Damages/Losses
June 6-8, 2013	Record Heavy Rain	N/A	N/A	Yes – flooding from heavy rain event and coastal erosion. Waterfront roads underwater
May 23, 2013	Flash Flooding	N/A	N/A	Yes Minor flooding along waterfront roads
February 8-9, 2013	Severe Winter Storm and Snowstorm	DR-4111	Yes - PA (Public Assistance)	Yes – Significant heavy snowfall, had trees and power lines down and some road damage
January 31, 2013	High Wind and Rain	N/A	N/A	Yes – Flood along waterfront roadways and inland surface flooding, storm surge and coastal erosion
December 26-27, 2012	Nor'Easter	N/A	N/A	Yes – Coastal Flooding along waterfront roads and strong winds.
November 7, 2012	Nor'Easter	N/A	N/A	Yes- minor flooding along waterfront roads and snow fall
October 27- November 8, 2012	Hurricane Sandy	DR-4085	Yes – IA (Individual Assistance) and PA	Yes – Severe flooding over 25 million in property damages to infrastructure and residential properties 100 flood rescues were





Dates of Event	Event Type	FEMA Declaration # (If Applicable)	Suffolk County Designated?	Summary of Damages/Losses
				conducted. Some residents were trapped in their homes for days. More than 100 people required emergency shelter. 60-80 homes in Mastic Beach and Smith Point of Shirley were destroyed; hundreds suffered major damage. Floodwaters rendered many on-lot wastewater systems inoperable.
August 26 – September 5, 2011	Hurricane Irene	EM 3328 DR 4020	Yes – IA and PA	Yes- Significant Flooding causing property damages to residents and roadways along the waterfront area
December 26-27, 2011	Severe Winter Storm and Snowstorm	DR 1957	Yes - PA	Yes – Storm surge caused Flooding to roadways near waterfront.
September 16, 2010	Severe Storms, Tornadoes and Straight Line Wind	DR 1943	No	Yes – Storm surge caused Flooding to roadways near waterfront

EM Emergency Declaration (FEMA)
 FEMA Federal Emergency Management Agency
 DR Major Disaster Declaration (FEMA)
 IA Individual Assistance
 N/A Not applicable
 PA Public Assistance

9.10.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Village of Mastic Beach. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for Village of Mastic Beach.

Table 9.10-3. Hazard Risk/Vulnerability Risk Ranking

Hazard Ranking	Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c, e}	Probability of Occurrence ^b	Risk Ranking Score (Probability x Impact)
6	Coastal Erosion	RCV in CEHA: \$0	Occasional	12
4	Drought	Damage estimate not available	Occasional	24
4	Earthquake	500-Year MRP: \$128,618,913 2,500-Year MRP: \$2,065,631,997	Rare	24
7	Expansive Soils	Damage estimate not available	Rare	6
4	Flood	1% Annual Chance: \$96,673,226	Frequent	24



Hazard Ranking	Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c, e}	Probability of Occurrence ^b	Risk Ranking Score (Probability x Impact)
		0.2% Annual Chance: \$144,918,821		
5	Groundwater Contamination (natural)	Damage estimate not available	Frequent	18
2	Hurricane	Category 1 SLOSH: \$363,546,604 Category 2 SLOSH: \$1,289,168,259 Category 3 SLOSH: \$1,918,578,930 Category 4 SLOSH: \$2,505,531,957	Occasional	36
7	Infestation	No measurable impact to property	Rare	6
1	Nor'Easter	100-Year RCV: \$1,725,996,479 500-Year RCV: \$1,596,906,895	Frequent	48
3	Severe Storm	100-Year RCV: \$1,725,996,479 500-Year RCV: \$1,596,906,895	Occasional	32
1	Severe Winter Storm	1% of GBS: \$21,227,487 5% of GBS: \$106,137,436	Frequent	48
7	Shallow Groundwater Flooding	Damage estimate not available	Rare	6
2	Wildfire	Estimated RCV in Interface/Intermix: \$1,669,698,037	Occasional	36

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
 - b. The valuation of general building stock and loss estimates was based on the custom inventory developed for Suffolk County and probabilistic modeling results and exposure analysis as discussed in Section 5.
 - c. The earthquake and hurricane wind hazards were evaluated by Census tract. The Census tracts do not exactly align with municipal boundaries; therefore, a total is reported for each Town inclusive of the Villages and the Tribes within the Town boundary.
 - d. Frequent = Hazard event that occurs more frequently than once in 10 years; Occasional = Hazard event that occurs from once in 10 years to once in 100 years, Rare = Hazard event that occurs from once in 100 years to once in 1,000 years; None = Hazard event that occurs less frequently than once in 1,000 years
 - e. The estimated potential losses for Nor'Easter and Severe Storm are from the HAZUS-MH probabilistic hurricane wind model results. See footnote c.
- CEHA = Coastal Erosion Hazard Area
 GBS = General building stock
 MRP = Mean return period
 RCV = Replacement cost value

National Flood Insurance Program (NFIP) Summary

While the Village of Mastic Beach participates in the NFIP, there are no NFIP statistics available for this community.

Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1- and 0.2-percent annual chance flood events.





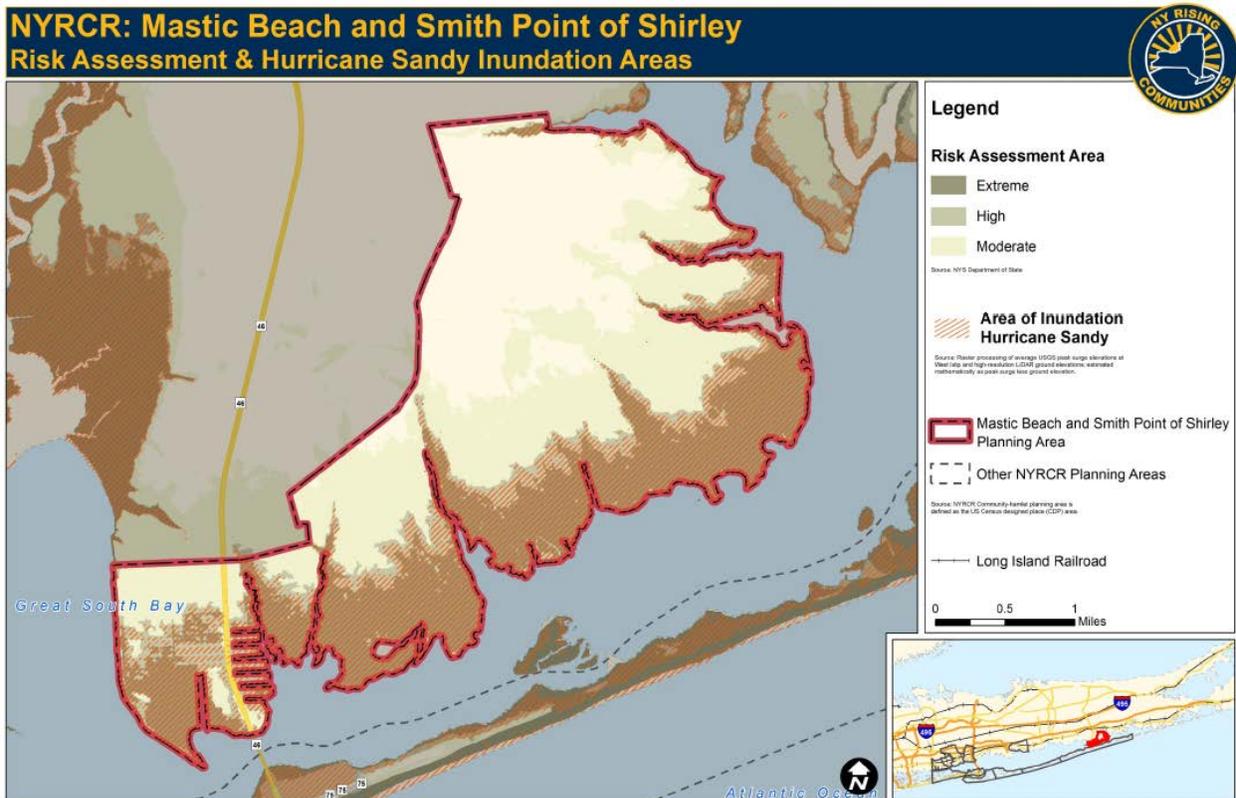
Table 9.10-4. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event			Potential Loss from 0.2% Flood Event		
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽²⁾	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽²⁾
None identified at this time.									

Other Vulnerabilities Identified by Municipality

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

Superstorm Sandy in October 2012 caused massive flooding in the Village. The figure below shows the inundated areas in Mastic Beach and Smith Point of Shirley. A description of the effects of Superstorm Sandy on the Village can be found in Section C, above. The NYRSCP process has identified relevant vulnerabilities and potential mitigation initiatives within the community, as documented in the NYRCRP planning documents available at <http://stormrecovery.ny.gov/community-reconstruction-program>. Key projects and initiatives identified in these documents are included in the updated mitigation strategy (Table F3), and elsewhere within this annex as noted.





9.10.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the municipality.

Table 9.10-5. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Building Code	Y	Local	Village Code Administrator	Chapter 178 Building Code , Adopted 6/1/2011
Zoning Ordinance	Y	Local and County (1)	Suffolk County Planning Commission; Village of mastic Beach Zoning Board	Suffolk County Planning Commission has review authority on certain actions. If they disapprove an action, Village of mastic Beach Zoning Board must approve with a greater majority & present findings. Chapter 530 Zoning Adopted 9/26/2013
Subdivision Ordinance	Y	Local and County (1) (2)	Suffolk County Planning Commission; Village of Mastic Beach Board of Trustees/ Village of Mastic Beach Zoning Board/ Village of Mastic Beach Planning Board	Suffolk County Planning Commission has review authority on certain actions. If they disapprove an action, Village of Mastic Beach Board/ Village of Mastic Beach Zoning Board/ Village of Mastic Beach Planning Board must approve with a greater majority & present findings. As per Chapter 530 of Zoning Codes and NYS Subdivision laws provide a general framework, but allow room for local ordinances and interpretation.
Special Purpose Ordinances	Y	Local	Code Enforcement Administrator	Chapter 240 Freshwater Wetlands; Chapter 210 Environmental Quality Review; Adopted 6/1/2011
Growth Management	Y	Local	Village of Mastic Beach Board of Trustees, Planning Board	This is ongoing and working with sources to find funding sources to help revitalize the community.
Growth Management	Y	County	Suffolk County Department of Planning	Smart Growth Policy Plan for Suffolk County, 2000
Floodplain Management / Basin Plan	Y	Local	Village Code Enforcement / Floodplain Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011, amended 1-8-2013
Stormwater Management	Y	Local	Village Code	Chapter 430 Stormwater Management; Adopted



Section 9.10: Village of Mastic Beach

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Plan/Ordinance			Enforcement Administrator	6/1/2011
Comprehensive Plan / Master Plan	Y	Local	Village of Mastic Beach Board of Trustees, Planning Board	This is in the development stage
Comprehensive Plan / Master Plan	Y	County	Suffolk County Planning Commission	Suffolk County Comprehensive Plan 2035
Comprehensive Plan / Master Plan	Y	County	Long Island Regional Planning Council	Regional Comprehensive Sustainability Plan, 2010
Capital Improvements Plan	Y	Local	Village of Mastic Beach Board of Trustees, Planning Board	This is ongoing and being developed
Site Plan Review Requirements	Y	Local	Suffolk County Planning Commission; Village of Mastic Beach Planning and Zoning Board	Suffolk County Planning Commission has review authority on certain actions. If they disapprove an action, Village of Mastic Beach Boards must approve with a greater majority & present findings; Chapter 530 Zoning; Adopted 9/26/13
Habitat Conservation Plan	N	Local	Village of Mastic Beach Board of Trustees, Planning Board	This village is working with outside resources to develop program to protect the habitat of the community, also, working with Habitat of Humanity to develop affordable housing in community.
Economic Development Plan	Y	Local	Village of Mastic Beach Board of Trustees, Planning Board	This is being developed. Village has draft plan
Emergency Response Plan	Y	Local	Village Code Enforcement Administrator and Village Fire Marshal	Chapter 220 Fire Prevention; Adopted 6/11/2011
Shoreline Management Plan	Y	Local	Village Code Enforcement Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011, amended 1-8-2013
Post Disaster Recovery Plan	N	Local	Village Code Enforcement Administrator and Village Fire Marshal	This will be completed in first quarter of 2014
Post Disaster Recovery Ordinance	N	Local	Village Code Enforcement Administrator and Village Fire Marshal	This will be completed in first quarter of 2014
Real Estate Disclosure req.	Y	Local	Village Code Enforcement	Chapter 40 Code of Ethics; Adopted 6/11/2011, Chapter 260 Housing Standards; and



Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
			Administrator	Chapter 178 Building Code; Adopted 6/11/2011
Long Island South Shore Estuary Reserve Comprehensive Management Plan	Y	Local	Long Island South Shore Estuary Reserve Council, NYS Department of State	
Other (e.g. steep slope ordinance, local waterfront revitalization plan)	Y	Local	Village Code Enforcement Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011; Chapter 178 Building Codes; Adopted 6/11/2011, amended 1-8-2013
Revitalization Plan	Y	Local	Village of Mastic Beach	Draft Local Waterfront Revitalization Plan for Mastic Beach and Shirley, 2006
Revitalization Plan	Y	Local	Town of Brookhaven	A Community-Based Vision and Revitalization Plan for Neighborhood Road & Mastic Road, Mastic Beach, 2006
Water Resources Management Plan	Y	County	Suffolk County Department of Health	Comprehensive Water Resources Management Plan
Open Space Plan	Y	County	Suffolk County	Comprehensive Master List Update-2012
NFIP Flood Damage Protection Ordinance	Y	Local	Village Code Enforcement Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011, amended 1-8-2013
NFIP - Freeboard	Y	Local	Village Code Enforcement Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011, amended 1-8-2013. State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other.
NFIP - Cumulative Substantial Damages	Y	Local	Village Code Enforcement Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011, amended 1-8-2013
Coastal Erosion Control Districts	Y	Local	Village Code Enforcement Administrator	Chapter 230 Flood Damage Prevention; Adopted 6/1/2011, 1-8-2013

Administrative and Technical Capability

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



Table 9.10-6. Administrative and Technical Capabilities

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Village of Mastic Beach (VMB) Planning Department
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	VMB Building and Planning Department
Planners or engineers with an understanding of natural hazards	Y	VMB Planning Department
NFIP Floodplain Administrator	Y	VMB Administrator
Surveyor(s)	N	VMB contracts out Surveyors
Personnel skilled or trained in “GIS” applications	Y	VMB Administrator
Scientist familiar with natural hazards in the municipality.	Y	Town of Brookhaven (TOB) Department of Planning, Environmental, and Land Management until September 2010 when Village became Incorporated
Emergency Manager	Y	VMB Building and Fire Prevention
Grant Writer(s)	Y	VMB Planning and some Contracting
Staff with expertise or training in benefit/cost analysis	Y	VMB Finance Department

Fiscal Capability

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

Table 9.10-7. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG)	Yes – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Capital Improvements Project Funding	Yes – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Authority to Levy Taxes for specific purposes	Yes – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
User fees for water, sewer, gas or electric service	No – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Impact Fees for homebuyers or developers of new development/homes	No – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Incur debt through general obligation bonds	Yes – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Incur debt through special tax bonds	No – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Incur debt through private activity bonds	No – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Withhold public expenditures in hazard-prone areas	Don't Know – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September



Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
	2010, prior to that jurisdiction fell within the Town of Brookhaven.
Mitigation grant programs	Yes – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.
Other	Yes – Based on Town of Brookhaven Assessment for 2008, Village of Mastic Beach was incorporated in September 2010, prior to that jurisdiction fell within the Town of Brookhaven.

Community Classifications

The table below summarizes classifications for community program available to the Village of Mastic Beach.

Table 9.10-8. Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)		
Building Code Effectiveness Grading Schedule (BCEGS)		
Public Protection		
Storm Ready		
Firewise		

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>



National Flood Insurance Program

The following section provides details on the National Flood Insurance Program (NFIP) as implemented within the municipality:

Program and Compliance History

The community's Flood Damage Prevention Ordinance (FDPO), found at Chapter 230 of the local code, was last updated on January 8, 2013.

Planning and Regulatory Capabilities

The community's Flood Damage Prevention Ordinance (FDPO) was last updated on January 8, 2013, and is found at Chapter 230 of the local code.

Administrative and Technical Capabilities

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

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

It is the intention of this municipality to incorporate hazard mitigation planning and natural hazard risk reduction as an integral component of ongoing municipal operations. The following textual summary and table identify relevant planning mechanisms and programs that have been/will be incorporated into municipal procedures, which may include former mitigation initiatives that have become continuous/ongoing programs and may be considered mitigation "capabilities":

Land Use Plans – maintain the Village Comprehensive Plan, floodplain management plan, economic development plan, local revitalization plan, and shoreline management plan to minimize risk in hazard areas. Updates will include a review of the HMP to ensure that hazard areas are identified in the respective plans.

Land Use Plans – update village information as needed in the Suffolk County Comprehensive Plan and the Long Island South Shore Estuary Reserve Comprehensive Plan to ensure that hazard areas are addressed.

Building Code, Ordinances, and Enforcement – review planned development against the hazard areas identified in the HMP during zoning and subdivision reviews.

Building Code, Ordinances, and Enforcement – maintain NFIP flood damage prevention ordinance.

Building Code, Ordinances, and Enforcement – provide training for additional Code Enforcement Officers and Inspectors

Stormwater Management Plan – Planned flood mitigation actions and their intended effect will be reflected in the Stormwater Management Plan.

Floodplain Management - work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate



Emergency Response Plan – the village developed and adopted an Emergency Response Plan in order to outline in detail the functions and responsibilities of each village department during a large scale natural or man-made emergency, so that response to emergencies lessens the severity of a disaster on property and the population. This plan includes many pre-event actions that both mitigate disaster losses, and directly supports recovery efforts.

Emergency Response Plan - develop a post –disaster recovery plan, including a debris management plan. This is to be incorporated into the existing emergency management plan. The debris management plan will incorporate estimates of debris generated by different hazards, as discussed in the risk assessment portion of the HMP.

Infrastructure Protection - enhance and implement the tree management program to decrease the risk of utility failures during storm events.



9.10.6 Mitigation Strategy and Prioritization

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Mastic Beach identified mitigation initiatives they would like to pursue in the future. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Table 9.10-9 identifies the municipality's updated local mitigation strategy.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.10-10 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

The Village of Mastic Beach has identified 15 projects to include as a part of their annex in the Suffolk County Hazard Mitigation Plan.



Table 9.10-9. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
MB-1 (Sandy HMGP LOI #679)	Rebuild and raise Riviera Drive.	Existing	Flood, Hurricane, Nor'Easter, Severe Storm	2, 9, 13, 14, 15, 16				See Action Worksheet (MB-1 – LOI 679 – 031814)			
MB-2 (Sandy HMGP LOI #680)	Raise homes along the waterfront.	Existing	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	1, 2, 9, 15				See Action Worksheet (MB-2 – LOI 680 – 031814)			
MB-3 (Sandy HMGP LOI #868)	Raise homes along the waterfront.	Existing	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm	1, 2, 9, 15				See Action Worksheet (MB-3 – LOI 868 – 031814)			
MB-4 (Sandy HMGP LOI #866)	Rebuild and elevate Riviera Drive - West.	Existing	Flood, Hurricane, Nor'Easter, Severe Storm	2, 9, 13, 14, 15, 16				See Action Worksheet (MB-4 – LOI 866 – 031814)			
MB-5 (Sandy HMGP LOI #1124)	Provide training for additional Code Enforcement Officers and Inspectors	N/A	Coastal Erosion, Earthquake, Expansive Soils, Flood, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Wildfire,	4, 14				See Action Worksheet (MB-5 – LOI 1124 – 031814)			



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
			Winter Storm								
MB-6 (Sandy HMGP LOI #914)	Install an Enhanced Monitoring and Alerting System throughout the community.	New	Coastal Erosion, Drought, Flood, Hurricane, Nor'Easter, Severe Storm, Winter Storm	1, 3, 12, 14				See Action Worksheet (MB-6 – LOI 914 – 031814)			
MB-7 (Sandy HMGP LOI #909)	Install back-up power supply to Village Hall.	Existing	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	2, 13, 14, 16				See Action Worksheet (MB-7 – LOI 909 – 031814)			
MB-8 (Sandy HMGP LOI 2036)	Install back-up power supply to Village Hall.	Existing	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm	2, 13, 14, 16				See Action Worksheet (MB-8 – LOI 2036 – 031814)			
MB-9 (Sandy HMGP LOI #908)	Storm water run-off management system	New and Existing	Flood, Hurricane, Nor'Easter, Severe Storm, Winter Storm	8, 9, 11, 13, 14, 16, 17				See Action Worksheet (MB-9 – LOI 908 – 031814)			
MB-10 (Sandy)	Build a community	Existing	Earthquake, Flood,	1, 13, 14, 16				See Action Worksheet (MB-10 – LOI 1139 – 031814)			



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
HMGP LOI #1139)	in-place shelter for residents and their pets.		Hurricane, Nor'Easter, Severe Storm, Shallow GW, Wildfire, Winter Storm								
MB-11 (Sandy HMGP LOI #793)	Flood-proof Village Hall. This action has been discontinued; determined to be infeasible.	N/A	N/A	N/A				N/A			
MB-12 (Sandy HMGP LOI #905)	Construct a wastewater treatment facility.	New	Earthquake, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	11, 14, 16				See Action Worksheet (MB-12 – LOI 905 – 031814) This project is also identified as part of the New York Rising Community Redevelopment (NYRCR) program; specifically as the following projects: <ul style="list-style-type: none"> • Engineering Design for Central Business District Sewer System • Purchase property for construction of local wastewater treatment plant. 			
MB-13 (Sandy HMGP LOI #1207)	Restore the wetlands, and develop and reinforce the natural barriers of the waterfront.	N/A	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm,	1, 5, 6, 8, 9, 10, 11, 15, 17				See Action Worksheet (MB-13 – LOI 1207 – 031814)			
MB-14 (Action Worksheet)	Install backup generator to the	Existing	Earthquake, Flood, Hurricane,	2, 13, 14, 15, 16				See Action Worksheet (MB-14 – AW1 – 031814)			





Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
	Department of Public Works Facility		Nor'Easter, Severe Storm, Wildfire, Winter Storm								
MB-15 (NEW)	Assess and prioritize options to elevate approximately 1,000 homes in the 1% annual chance floodplain, and implement as funding becomes available.										
	See above	Existing	Flood, Hurricane, Nor'Easter, Severe Storm	1, 2, 9, 15	Village	High	High	FEMA HMA, Village	DOF	High	SIP
MB-16 (NEW)	Conduct a wastewater treatment facility survey.										
	See above	N/A	Earthquake, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm, Shallow GW, Winter Storm	1, 11, 14, 16	Village	Low	Low	Village	DOF	Medium	SIP
MB-17 (NEW)	Assess and prioritize options to elevate roadways in the waterfront district.										
	See above	Existing	Flood, Hurricane, Nor'Easter, Severe Storm	1, 2, 9, 13, 14, 15, 16	Village	Low	Low	Village	DOF	High	SIP
MB-18 (NEW)	Assess and prioritize options to protect the inland areas of the Village from storm and tidal surges, and implement as funding becomes available.										
	See above	N/A	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe	5, 6, 8, 9, 11, 14, 15, 17	Village	Low	Low	Village	DOF	Medium	SIP, LPR



Section 9.10: Village of Mastic Beach

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
			Storm								
MB-19 (NEW)	Assess and prioritize options to acquire properties in the Extreme Risk area for flooding, and implement as funding becomes available.										
	See above	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	2	County/Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Short	high	LPR
MB-20 (NEW)	Establish a program to dredge Moriches Inlet, creeks, and canals, and implement as funding becomes available.										
	See above	NA	Nor'Easters; Hurricane; Flooding; Shallow Groundwater	2, 3, 5, 7, 9, 14, 15	SCDPW	High	High	Suffolk County	Long term	Medium	NRP
MB-21 (NEW)	Assess and prioritize options to protect key utility and water infrastructure, and implement as funding becomes available.										
	See above	New & Existing	All Hazards	16	County/Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Short	Medium	SIP
MB-22 (NEW)	Assess and prioritize options, such as elevation, to ensure access to primary roadways, and implement as funding becomes available.										
	See above	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	15, 16	Village	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	DOF	High	SIP
MB-23 (NEW)	Assess and prioritize options to provide back-up power supply for cell towers, and implement as funding becomes available.										
	See above	New & Existing	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire,	7, 14, 15, 16	County	High	Medium	General Fund	Short, DOF	High	SIP





Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
			Winter Storm								
MB-24 (NEW)	Investigate the feasibility of Movable Inlet Barriers										
	See above	New	Flood, Hurricane, Nor'Easter, Severe Storm, Coastal Erosion	15, 16	County/Village	High-Medium	Medium	General Fund, FEMA Hazard Mitigation Grant Funding	Short	Medium	NRP
MB-25 (NEW)	Assess and prioritize options to restore the Barrier Island Dune System, and implement as funding becomes available.										
	See above	NA	Flood, Hurricane, Nor'Easter, Severe Storm, Coastal Erosion	5	County/Village/NYSDEC/USACE	High	High	General Fund, FEMA Hazard Mitigation Grant Funding	Short	Medium	NRP
MB-26 (NEW)	Work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate.										
	See above	N/A	Coastal Erosion, Flood, Hurricane, Nor'Easter, Severe Storm, Shallow GW,	1, 4, 6, 9, 11, 14	Village	Medium	Low	Village	Short	Medium	EAP
MB-27 (NEW)	Assess and prioritize options to build a wastewater treatment system to protect the environment and human health, and implement as funding becomes available.										
	See above	New and Existing	Earthquake, Flood, Groundwater Contam, Hurricane, Infestation, Nor'Easter, Severe Storm,	11, 14, 16	Village	High	High	Village, FEMA, NYSOEM	Short - DOF	Medium	SIP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
			Shallow GW, Winter Storm,								
MB-28 (NEW)	Provide Parking Areas for Vehicle Storage										
	See above	New	Flood, Nor'Easter, Hurricane, Severe Storm	7, 12, 15	County/Village		Medium	General Fund	Short	Low	SIP
MB-29 (NEW)	Determine those areas where the use of structural mitigation measures would be feasible and appropriate										
	See above	New	Flood, Nor'Easter, Hurricane, Severe Storm, Coastal Erosion	16	County/Village		Low	General Fund, FEMA Hazard Mitigation Grant Funding	Short	High	SIP
MB-30 (NEW)	Develop and institute a tree maintenance program as funding becomes available										
	See above	NA	Nor'Easter, Hurricane, Severe Storm, Wildfire, Winter Storm, Invasive Species	8, 10, 16	Village		Low	General Fund	Short, OG	Low	NRP
MB-31 (NEW)	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss properties as a priority when applicable. Phase 1: Identify appropriate candidates and determine most cost-effective mitigation option (in progress). Phase 2: Work with the property owners to implement selected action based on available funding and local match availability.										
	See above.	Existing	Flood, Coastal Erosion, Hurricane, Nor'Easter, Severe Storm, Wildfire,	2,6	Town/Village Engineering via NFIP FPA) with NYSOEM, FEMA support	High	High	Federal and State Mitigation Grant Programs and local budget (or property	Ongoing (outreach and specific project identification); Long term DOF (specific project application and implementation)	High	SIP



Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
			Winter Storm					owner) for cost share			
MB-32 (NEW)	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: <ul style="list-style-type: none"> • Mitigation Education for Natural Disasters (natural hazard awareness and personal scale risk reduction/mitigation public education and outreach program) • Build Local Floodplain Management and Disaster Recovery Capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) • County-Wide Debris Management Plan • Jurisdictional Knowledge of Mitigation Needs of Property Owners (improved understanding of damages and mitigation interest/activity of private property owners) • Create a Multi-Jurisdictional Seismic Safety Committee in Suffolk County (build regional, county and local capabilities to manage seismic risk, both pre- and post-disaster) • Alignment of Mitigation Initiatives through all levels of Government (effort to build State and Federal level recognition and support of the County and local hazard mitigation planning strategies identified in this plan). 										
	See above	New and Existing	All Hazards	All Objectives	Suffolk County, as supported by relevant local department leads,	High (comprehensive improvements mitigation and risk-reduction capabilities)	Low-Medium (locally)	Local (staff resources)	Short	High	EAP
MB-33 (NEW)	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered “critical”, and to be the first priority for clearing after an event involving downed power lines.										
	See above.	Existing	Severe Storm; Severe Winter Storm; Hurricane; Nor’Easter	3, 7, 13, 14, 15, 16	PSEG, County	High	Low-Medium	Local	Short	High	LPR

Notes:

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

- DPW Department of Public Works
- FEMA Federal Emergency Management Agency
- FMA Flood Mitigation Assistance grant program
- HMA Hazard Mitigation Assistance grant program (including FMA, HMGP, PDM)
- HMGP Hazard Mitigation Grant Program
- N/A Not applicable





NFIP National Flood Insurance Program
NYSOEM New York State Office of Emergency Management
PDM Pre-Disaster Mitigation grant program
PSEG Public Service Electric and Gas (formerly LIPA)

Costs:

Where actual project costs have been reasonably estimated:

Low = < \$10,000
Medium = \$10,000 to \$100,000
High = > \$100,000

Where actual project costs cannot reasonably be established at this time:

Low = Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium = Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
High = Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low = < \$10,000
Medium = \$10,000 to \$100,000
High = > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low = Long-term benefits of the project are difficult to quantify in the short term.
Medium = Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High = Project will have an immediate impact on the reduction of risk exposure to life and property.

Timeline:

Short = 1 to 5 years
Long Term = 5 years or greater
OG = On-going program
DOF = Depending on funding

Mitigation Category:

- *Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.*
- *Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.*
- *Natural Systems Protection (NRP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.*
- *Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.*



Table 9.10-1. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
MB-1 (Sandy HMGP LOI #679)	Rebuild and raise Riviera Drive.	1	1	0	1	1	0	1	0	0	1	1	1	1	1	10	High
MB-2 (Sandy HMGP LOI #680)	Raise homes along the waterfront.	0	1	0	1	1	0	1	0	0	1	1	1	1	1	9	High
MB-3 (Sandy HMGP LOI #868)	Raise homes along the waterfront.	0	1	0	1	1	0	1	0	0	1	1	1	1	1	9	High
MB-4 (Sandy HMGP LOI #866)	Rebuild and elevate Riviera Drive West.	1	1	0	1	1	0	1	0	0	1	1	1	1	1	10	High
MB-5 (Sandy HMGP LOI #1124)	Provide training for additional Code Enforcement Officers and Inspectors	0	0	0	1	1	1	0	0	0	0	1	1	1	1	7	Medium
MB-6 (Sandy HMGP LOI #914)	Sandy HMGP LOI #914 - Install an Enhanced Monitoring and Alerting System throughout the community.	1	1	0	1	1	1	0	0	0	0	1	1	1	1	9	Medium
MB-7 (Sandy HMGP LOI #909)	Install back-up power supply to Village Hall.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
MB-8 (Sandy HMGP LOI 2036)	Install back-up power supply to Village Hall.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
MB-9 (Sandy HMGP LOI #908)	Storm water run-off management system	1	1	1	1	0	1	1	1	0	1	1	1	1	1	12	Medium
MB-10 (Sandy HMGP LOI #1139)	Build a community in-place shelter for residents and their pets.	1	1	1	1	1	1	1	0	-1	1	1	1	1	1	11	Medium
MB-11 (Sandy HMGP LOI #793)	Flood-proof Village Hall. Discontinued Action.																N/A





Section 9.10: Village of Mastic Beach

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
MB-12 (Sandy HMGP LOI #905)	Construct a wastewater treatment facility.	1	1	0	1	0	1	0	1	0	1	1	0	0	1	8	Medium
MB-13 (Sandy HMGP LOI #1207)	Restore the wetlands, and develop and reinforce the natural barriers of the waterfront.	1	1	1	1	1	1	0	1	0	0	1	1	0	1	10	Medium
MB-14 (Action Worksheet)	Install backup generator to the Department of Public Works Facility	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
MB-15 (NEW)	Assess and prioritize options to elevate approximately 1,000 homes in the 1% annual chance floodplain, and implement as funding becomes available.	1	1	0	1	1	1	1	0	0	1	1	1	1	1	11	High
MB-16 (NEW)	Conduct a wastewater treatment facility survey.	1	1	1	1	0	1	1	1	0	1	1	1	1	1	12	Medium
MB-17 (NEW)	Assess and prioritize options to elevate roadways in the waterfront district.	1	1	0	1	1	0	1	0	0	1	1	1	1	1	10	High
MB-18 (NEW)	Assess and prioritize options to protect the inland areas of the Village from storm and tidal surges, and implement as funding becomes available.	1	1	1	1	1	1	0	1	0	0	1	1	0	1	10	Medium
MB-19 (NEW)	Assess and prioritize options to acquire properties in the Extreme Risk area for flooding, and implement as funding becomes available.	1	1	0	1	1	1	1	0	0	1	1	1	1	1	11	High
MB-20 (NEW)	Establish a program to dredge Moriches Inlet, creeks, and canals, and implement as funding	1	1	1	1	1	1	0	1	0	0	1	1	0	1	10	Medium





Section 9.10: Village of Mastic Beach

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	becomes available.																
MB-21 (NEW)	Assess and prioritize options to protect key utility and water infrastructure, and implement as funding becomes available.	1	1	0	0	0	1	0	1	0	0	0	1	1	1	7	Medium
MB-22 (NEW)	Assess and prioritize options, such as elevation, to ensure access to primary roadways, and implement as funding becomes available.	0	1	0	1	1	0	1	0	0	1	1	1	1	1	9	High
MB-23 (NEW)	Assess and prioritize options to provide back-up power supply for cell towers, and implement as funding becomes available.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
MB-24 (NEW)	Investigate the feasibility of Movable Inlet Barriers	1	1	1	1	1	1	0	1	0	0	1	1	0	1	10	Medium
MB-25 (NEW)	Assess and prioritize options to restore the Barrier Island Dune System, and implement as funding becomes available.	1	1	1	1	1	1	0	1	0	0	1	1	0	1	10	Medium
MB-26 (NEW)	Work together with the County and others to bring CRS training/workshops into the community where appropriate community officials and staff will actively participate.	1	1	1	1	1	1	0	0	0	0	1	1	1	1	10	Medium
MB-27 (NEW)	Assess and prioritize options to build a wastewater treatment system to protect the environment and human health, and implement as funding becomes available.	1	1	0	1	0	1	0	1	0	0	1	1	0	1	8	Medium
MB-28	Provide Parking Areas for	1	0	0	1	0	1	0	0	0	0	1	1	0	0	5	Low





Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
(NEW)	Vehicle Storage																
MB-29 (NEW)	Determine those areas where the use of structural mitigation measures would be feasible and appropriate	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
MB-30 (NEW)	Develop and institute a tree maintenance program as funding becomes available	0	1	0	0	0	1	0	1	0	1	1	1	0	1	7	Low
MB-31 (NEW)	Support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or acquisition/relocation to protect structures from future damage, with repetitive loss and severe repetitive loss properties as a priority when applicable. Phase 1: Identify appropriate candidates and determine most cost-effective mitigation option (in progress). Phase 2: Work with the property owners to implement selected action based on available funding and local match availability.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
MB-32 (NEW)	Support and participate in county led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1).	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
MB-33 (NEW)	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are	1	1	0	1	0	1	1	1	0	1	1	1	1	1	11	High





Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	considered “critical”, and to be the first priority for clearing after an event involving downed power lines.																

Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.



9.10.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.10.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Mastic Beach that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Mastic Beach has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.10.9 Additional Comments

None at this time.



Figure 9.10-1. Village of Mastic Beach Hazard Area Extent and Location Map 1

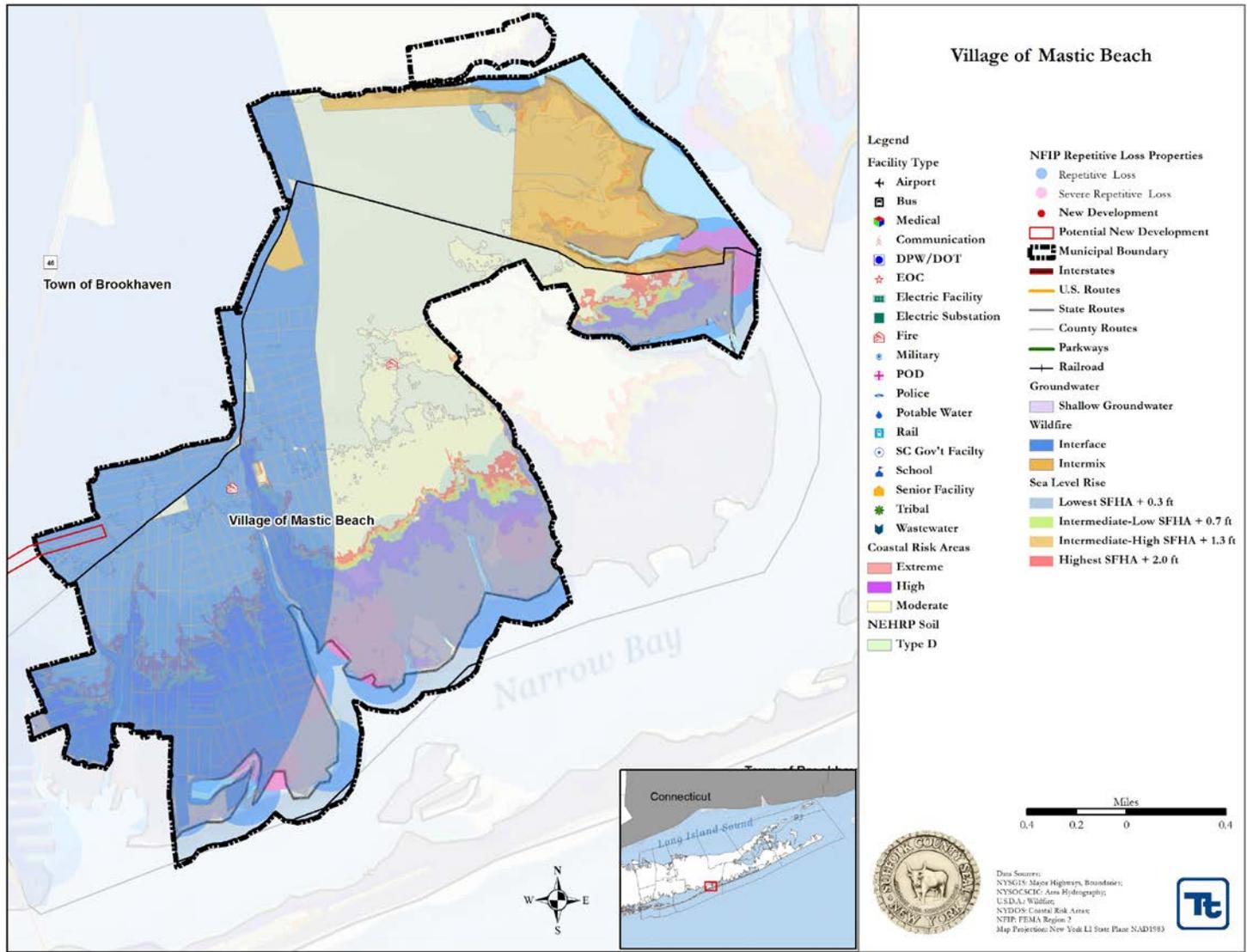
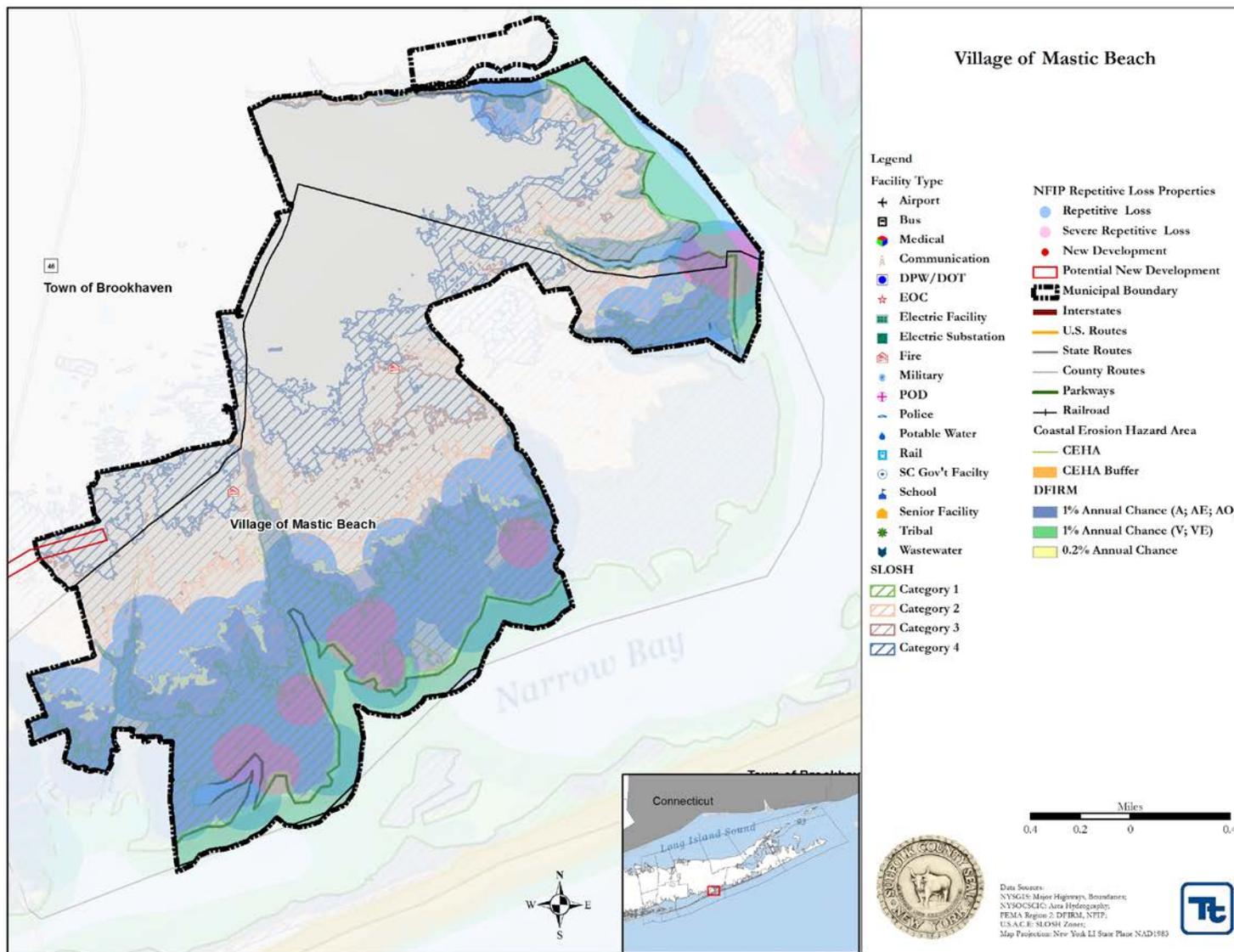




Figure 9.10-2. Village of Mastic Beach Hazard Area Extent and Location Map 2





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 679
Mitigation Action/Initiative: Rebuild and Raise Riviera Drive

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricanes, Nor'Easter, and Severe Storms
Specific problem being mitigated:	Riviera Drive, which runs along the waterfront has been subject to constant flooding and wash-over, especially during times of heavy rains and high tides.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Build a Floodwall along waterfront road. Not Feasible or cost effective. This would create a bowl affect trapping water in the village. 2. Take no action and accept current level of risk. Not a choice as this will create a health and Life safety issue for our residents and would not mitigate property damages. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	It is the Village's belief that the raising of the roadway would mitigate future flooding of homes in the low-lying area of our community; protect the health and safety of our residents and prevent loss of property and the value of same.
Mitigation Action/Project Type	Structure and Infrastructure
Objectives Met	2,3,13, 15,16
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	We will be able to protect the community from loss of and value of property. Most of all will be able to protect the health and Life Safety of our residents living along waterfront property. property. property. property. property. Recent Damages: \$500,000
Estimated Cost	\$2,800,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Willaim Biondi, Village Mayor
Local Planning Mechanism	Village Budget Funds will be requested during next budget cycle for matching local funds for grants having match requirements
Potential Funding Sources	HMGP; FEMA, CDBG-DR Village budget for Local Match
Timeline for Completion	8 months after grant/funding source approval
Reporting on Progress	





**Date of Status Report/
Report of Progress**

Date:
Progress on Action/Project:

*** Refer to results of Prioritization (page 2)**





Prioritization

Number: Sandy HMGP LOI #: 679

Mitigation Action/Initiative: Rebuild and Raise Riviera Drive

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will protect residents and visitors from floodwaters reducing or eliminating a current health and life safety issue as well as protect properties from repetitive damages
Property Protection	1	This will have a major impact in protecting properties along the waterfront community
Cost-Effectiveness	1	This project is considered highly cost effective for protecting property
Technical	1	This project has couple technical issues to make sure roadway is properly elevated and at same time protect the environment
Political	1	This project is both publically and politically supported
Legal	1	The Village has the legal authority to implement this project
Fiscal	0	The town can currently fund the local match if funding source is awarded
Environmental	1	There will be some environmental permit approvals needed to raise the roadway
Social	1	This project will benefit all sectors of the community equally
Administrative	1	The Village has all the administrative personnel and procedures in place to properly procure engineering firm and contractor for project.
Multi-Hazard	1	This project will protect the Village against multiple hazards
Timeline	1	This project can be completed within 1-2 years after funding source is approved
Agency Champion	1	The Village Mayor and Public Works Director are the leads on this project
Other Community Objectives	1	This project supports the priority initiatives set-forth by the Village Master plan to protect critical infrastructure and the residents of this community
Total	12	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 680
Mitigation Action/Initiative: Raising Homes Along Waterfront

Assessing the Risk	
Hazard(s) addressed:	<i>Flooding, Hurricanes, Nor'Easter, Severe Weather</i>
Specific problem being mitigated:	Approximately 250 homeowners along the waterfront have been adversely affected by recent Superstorm Sandy and are subject to repetitive damage by future storm systems.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Buyout/Acquisitioning of property – Not feasible as it will displace to many residents and the Village will have a major economic impact of loss revenue from tax base. 2. Take No Action and accept the current level of risk- This is not an option as it will not move residents out of harms way and will create a major health and life safety issue and property loss. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach would like to offer residents in the low-lying area assistance in raising their homes to protect the life and safety of residents of the community from future flood events.
Mitigation Action/Project Type	Structure and Infrastructure
Objectives Met	1,2,3,4,6,15,16
Applies to existing structures/infrastructure, future, or not applicable	Existing and Future
Benefits (losses avoided)	Elevating these homes will protect the residents not only for health and life safety but will also protect property loss in future events. Recent Damages: \$5,000,000
Estimated Cost	\$7,000,000
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: <i>William Biondi</i> , Village Mayor
Local Planning Mechanism	Village Budget-Funds will be requested during the next budget cycle for meeting any local match required for any approved funding sources.
Potential Funding Sources	HMGP, FEMA, CDBG-DR; Village budget for Local Match
Timeline for Completion	1-5 years after funding source is awarded
Reporting on Progress	





**Date of Status Report/
Report of Progress**

Date:
Progress on Action/Project:

*** Refer to results of Prioritization (page 2)**





Prioritization

Number: Sandy HMGP LOI #: 680

Mitigation Action/Initiative: Raising Homes Along Waterfront

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will protect our resident's health and life safety from flood waters
Property Protection	1	This project will eliminate or reduce property damages in future events
Cost-Effectiveness	1	This project is highly cost-effective and will help community maintain it's economic base.
Technical	1	All the technical matters will be handled through Village Code Enforcement Office and the A/E firm that Village properly procures to manage the program. All properties will have to meet Village Codes.
Political	1	This project is supported both publically and politically
Legal	1	The Village has full legal authority to implement and oversee this project to ensure it meets all codes and standards and work with property owners to secure all proper and required documentation and permits
Fiscal	1	The Village can currently fund any local match requirements if required by funding source
Environmental	0	If there are any environmental constraints that arise during the project phase then Village will ensure that all requirements are met to meet those constraints/requirements.
Social	1	This project benefits all sectors of the community that is located in the Floodplain.
Administrative	1	The Village has all the administrative and technical sources to implement and manage this project
Multi-Hazard	1	This project will provide protection for Multi-Hazards
Timeline	1	This project will be implemented within 3 months once funding source is secured
Agency Champion	1	Village Mayor and Building Code Enforcement Officer will be the leads for this project.
Other Community Objectives	1	This project supports both Village and State initiatives to protect residents and property in high hazard flood prone areas
Total	13	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 868
Mitigation Action/Initiative: Raising Homes Along Waterfront

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricanes, Nor'Easter, Severe Weather
Specific problem being mitigated:	Approximately 250 homeowners along the waterfront have been adversely affected by recent Superstorm Sandy and are subject to repetitive damage by future storm systems.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Buyout/Acquisitioning of property – Not feasible as it will displace to many residents and the Village will have a major economic impact of loss revenue from tax base. 2. Take No Action and accept the current level of risk- This is not an option as it will not move residents out of harms way and will create a major health and life safety issue and property loss. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach would like to offer residents in the low-lying area assistance in raising their homes to protect the life and safety of residents of the community from future flood events.
Mitigation Action/Project Type	Structure and Infrastructure
Objectives Met	1,2,3,4,6,15,16
Applies to existing structures/infrastructure, future, or not applicable	Existing and Future
Benefits (losses avoided)	Elevating these homes will protect the residents not only for health and life safety but will also protect property loss in future events. Recent Damages: \$4,500,000
Estimated Cost	\$2,000,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: <i>William Biondi</i> , Village Mayor
Local Planning Mechanism	Village Budget-Funds will be requested during the next budget cycle for meeting any local match required for any approved funding sources.
Potential Funding Sources	HMGP, FEMA, CDBG-DR; Village budget for Local Match
Timeline for Completion	1-5 years after funding source is awarded
Reporting on Progress	





**Date of Status Report/
Report of Progress**

Date:
Progress on Action/Project:

*** Refer to results of Prioritization (page 2)**





Prioritization

Number: Sandy HMGP LOI #: 868

Mitigation Action/Initiative: Raising Homes Along Waterfront

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will protect our resident's health and life safety from flood waters
Property Protection	1	This project will eliminate or reduce property damages in future events
Cost-Effectiveness	1	This project is highly cost-effective and will help community maintain it's economic base.
Technical	1	All the technical matters will be handled through Village Code Enforcement Office and the A/E firm that Village properly procures to manage the program. All properties will have to meet Village Codes.
Political	1	This project is supported both publically and politically
Legal	1	The Village has full legal authority to implement and oversee this project to ensure it meets all codes and standards and work with property owners to secure all proper and required documentation and permits
Fiscal	1	The Village can currently fund any local match requirements if required by funding source
Environmental	0	If there are any environmental constraints that arise during the project phase then Village will ensure that all requirements are met to meet those constraints/requirements.
Social	1	This project benefits all sectors of the community that is located in the Floodplain.
Administrative	1	The Village has all the administrative and technical sources to implement and manage this project
Multi-Hazard	1	This project will provide protection for Multi-Hazards
Timeline	1	This project will be implemented within 3 months once funding source is secured
Agency Champion	1	Village Mayor and Building Code Enforcement Officer will be the leads for this project.
Other Community Objectives	1	This project supports both Village and State initiatives to protect residents and property in high hazard flood prone areas
Total	13	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 866
Mitigation Action/Initiative: Rebuild and Raise Riviera Drive-West

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricanes, Nor'Easter, and Severe Storms
Specific problem being mitigated:	Riviera Drive, which runs along the waterfront has been subject to constant flooding and wash-over, especially during times of heavy rains and high tides.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Build a Floodwall along waterfront road. Not Feasible or cost effective. This would create a bowl affect trapping water in the village. 2. Take no action and accept current level of risk. Not a choice as this will create a health and Life safety issue for our residents and would not mitigate property damages. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	It is the Village's belief that the raising of the roadway would mitigate future flooding of homes in the low-lying area of our community; protect the health and safety of our residents and prevent loss of property and the value of same.
Mitigation Action/Project Type	Structure and Infrastructure
Objectives Met	2,3,13, 15,16
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	We will be able to protect the community from loss of and value of property. Most of all will be able to protect the health and Life Safety of our residents living along waterfront property. property. property. property. property. Recent Damages: \$1,000,000
Estimated Cost	\$5,000,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Willaim Biondi, Village Mayor
Local Planning Mechanism	Village Budget Funds will be requested during next budget cycle for matching local funds for grants having match requirements
Potential Funding Sources	HMGP; FEMA, CDBG-DR Village budge for Local Match
Timeline for Completion	8 months after grant/funding source approval
Reporting on Progress	





Date of Status Report/ Report of Progress	Date: Progress on Action/Project:
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* Refer to results of Prioritization (page 2)

Prioritization

Number: Sandy HMGP LOI #: 866
Mitigation Action/Initiative: Rebuild and Raise Riviera Drive - West

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will protect residents and visitors from floodwaters reducing or eliminating a current health and life safety issue as well as protect properties from repetitive damages
Property Protection	1	This will have a major impact in protecting properties along the waterfront community
Cost-Effectiveness	1	This project is considered highly cost effective for protecting property
Technical	1	This project has couple technical issues to make sure roadway is properly elevated and at same time protect the environment
Political	1	This project is both publically and politically supported
Legal	1	The Village has the legal authority to implement this project
Fiscal	0	The town can currently fund the local match if funding source is awarded
Environmental	1	There will be some environmental permit approvals needed to raise the roadway
Social	1	This project will benefit all sectors of the community equally
Administrative	1	The Village has all the administrative personnel and procedures in place to properly procure engineering firm and contractor for project.
Multi-Hazard	1	This project will protect the Village against multiple hazards
Timeline	1	This project can be completed within 1-2 years after funding source is approved
Agency Champion	1	The Village Mayor and Public Works Director are the leads on this project
Other Community Objectives	1	This project supports the priority initiatives set-forth by the Village Master plan to protect critical infrastructure and the residents of this community
Total	12	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 1124
Mitigation Action/Initiative: Provide training for additional Code Enforcement Officers and Inspectors

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricanes, Nor'Easters, Severe Storms, Earthquakes, Severe Winter Storms
Specific problem being mitigated:	After Superstorm Sandy made landfall the Village Code Enforcement Officer was overwhelmed with the number of inspections of homes and facilities to inspect for meeting the demand to get recovery moving forward. The rebuilding phase of the recovery and making sure that all permits meet all the requirements set-forth by local, state, federal and the NFIP is needing to be addressed expeditiously.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Contract Code Enforcement to Out Source- Not Feasible and depending on out source being available 2. Accept the current level risk and take no further action- Not feasible to village because of damages caused by repetitive storms locals citizens need guidance on a daily basis. Village already has Code Enforcement personnel just need further training. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Village of Mastic Beach would like to provide training for additional Code Enforcement Officers and Inspectors to make sure that recovery is moving in the right direction and within the code compliance of local and state laws. This training will also, send staff to NFIP Classes to get Certified as Floodplain Managers for the Village.
Mitigation Action/Project Type	Local Plans and Regulations
Objectives Met	1,3, 4, 14,
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	This project will train exist village code enforcement personnel on new building code standards, and train the couple staff to be Floodplain Managers. Recent Damages: \$5,000,000
Estimated Cost	\$10,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Susan Draghi, Village Clerk





Local Planning Mechanism	Village Budget – Funds will be requested during the next budget cycle for any matching local funds for grants
Potential Funding Sources	HMGP, CDBG-DR, Village Budget for Local Match
Timeline for Completion	6 months after funding source approved
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: Sandy HMGP LOI #: 1124
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will provide proper training for Code Enforcement Officers on updated building codes which will result in saving lives and adding life safety measures to citizens of community
Property Protection	1	This project will help provide protection of property by keeping up with regulations and codes
Cost-Effectiveness	1	Very Cost effective
Technical	1	This project there is no technical constraints
Political	1	This project has support from both publically and politically
Legal	1	The Village has the legal authority to implement this project
Fiscal	1	The Village can currently fund any required local cost share for any approved funding source
Environmental	0	This has no environmental constraints
Social	1	This project will benefit all sectors of the community equally
Administrative	1	The Village has the administrative and staff to implement this program
Multi-Hazard	1	This project will provide protection to multiple hazards
Timeline	1	This project will be implemented 30 days after funding source is approved
Agency Champion	1	This project will meet both Village ad State's priority initiatives to train local staff to implement compliance of codes in communities.
Other Community Objectives	1	This project will better educate code enforcement staff to be able to give proper guidance to community to better protect themselves from hazards.
Total	13	
Priority (High/Med/Low)	Medium	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 914
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	Village of Mastic Beach has one alerting siren in the community which is not able to reach out to the entire community. During Superstorm Sandy Village of Mastic Beach Officials had encountered a difficult time in reaching everyone in a timely manner. This has been a ongoing accurance since the Village was incorporated two (2) years ago. Thus, it creates a life, health and safety issue for the citizens of the community.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Village could hire police department – This option is not feasible or cost effective for village 2. Could accept the current level risk and take no action. This is not an option for Village as this is a water front community and is very prone to storm surges and coastal flooding at all times. Without warning system to creates a life safety hazard to community. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Village of Mastic Beach is proposing to install a enhance monitoring system that will be able to monitor rain, streams / or tides plus be able to momnitor inclimate weather and be tied into the Village Administration Hall where the Operation Center is located to have advance warning so that advance alerting can be sent out the the citizens of the community. This will allow the citizens to be able to prepare and evacuate to save Lives in the community.
Mitigation Action/Project Type	Structure and infrastructure
Objectives Met	1, 3, 12, 13
Applies to existing structures/infrastructure, future, or not applicable	existing
Benefits (losses avoided)	This project will provide early warning and alerting for all hazards and particularly weather conditions and flooding around the entire community. This will help monitor resources and where they are needed for response. Recent Damages: \$250,000
Estimated Cost	\$475,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: William Biondi, Village Mayor





Local Planning Mechanism	Village Budget - Funds for any local match will be requested at next cycle for any approved funding sources
Potential Funding Sources	HMGP; FEMA, CDBG-DR, Village Budget for Local Match
Timeline for Completion	3 months after project funding source is approved
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: Sandy HMGP LOI #: 914
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will protect the life safety for the residents of the community with the ability of early detection and alerting to get them out of harms way
Property Protection	1	This project will provide early warning to Village Officials so that they can do protective measures to prevent property damage
Cost-Effectiveness	1	This project is cost effective
Technical	1	The Village will contract out the technical aspects of the project and train village leadership to monitor.
Political	1	This project has support both publically and politically
Legal	1	The Village has the legal authority to implement the project
Fiscal	0	The Village can currently fund the local match that may be required for any funding source
Environmental	0	This project does not have any environmental constraints associated with the project
Social	1	This project benefits all sectors of the community equally
Administrative	1	The Village has the administrative resources to implement this project
Multi-Hazard	1	This project will provide protection for multiple hazards
Timeline	1	This project will be implement immediately once funding source is approved
Agency Champion	1	The Village Mayor and the Fire Marshal will be the leads on this project
Other Community Objectives	1	This project will support the towns initiative and state's initiative for monitoring and alerting systems for flooding and weather related events
Total	12	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: Sandy HMGP LOI #: 909
Mitigation Action/Initiative: Generator For Village Hall

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storm,, Severe Winter Storm, Earthquakes
Specific problem being mitigated:	Two years ago The Village of Mastic Beach incorporated from the town of Brookhaven. As Hurricane Sandy made landfall, the Mastic Beach Village office went without power during the disaster of Superstorm Sandy leaving the Village Hall (Operations and Offices) without power to conduct day to day operations and stage a command center for the activities taking place during the disaster until power could be restored.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Burying Power Lines- Not being pursued as it is cost prohibitive due to long run and Village does not have the legal authority to bury lines 2. Always outsource backup emergency power supply. Not cost effective and will always be relying on outside sources to be available. Also, depending on the event it maybe impossible to get outside resources into village. 3. Take no Action and accept the current level of risk. This is not option because it will impede and the ability for Village to have effective and fully operational response and recovery operation.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach is need of a back-up power system for the village office to aid in event of a future storm and to maintain the business continuity of the day to day Village Business
Mitigation Action/Project Type	Structural and infrastructure Project
Objectives Met	2,3,15, 16
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Being able to continue with all village administration, governmental functions for a smooth response and recovery operations. To be able to manage the response and recovery expeditiously. The ability to serve the citizens of community with needed support functions without interruptions of continuity Recent Damages: \$0
Estimated Cost	\$275,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Willaim Biondi - Village Mayor





Local Planning Mechanism	Village Budget- Funds will be requested at next budget cycle for local cost share for funding program
Potential Funding Sources	HMGP,FEMA, CDBG-DR, Village budget for Local Match
Timeline for Completion	6 months after funding approval
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: Sandy HMGP LOI #: 909

Mitigation Action/Initiative: Generator For Mastic Beach Village Hall

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will allow this critical facility to remain operational during power outages
Property Protection	0	This project will have no significant effect on reducing damage to the Village Hall structure.
Cost-Effectiveness	1	This project is considered highly cost-effective
Technical	1	There is no technical issues associated with this project, and with routine maintenance will provide long term protection against power interruptions.
Political	1	This project is supported both publically. And politically
Legal	1	The Village has full legal authority to implement the project
Fiscal	0	The Village can currently fund the local match if awarded grant
Environmental	1	There are no environmental constraints associated with this project
Social	1	This project benefits all sectors of the community equally
Administrative	1	The Village has all administrative and technical resources necessary to implement this project
Multi-Hazard	1	This project provides protection against multiple hazards within the community
Timeline	1	This project can be implemented within 6 months once funds are secured
Agency Champion	1	The Village Mayor and Village Code Enforcement Director are the leads for this critical project
Other Community Objectives	1	This project supports the Village's commitment to provide uninterrupted critical services to their residents, particularly in times of natural disasters and other emergencies
Total	12	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: MB-8 (LOI 2036)
Mitigation Action/Initiative: Generator For Department of Public Works Facility

Assessing the Risk	
Hazard(s) addressed:	<i>Hurricanes, Nor'Easters, Severe Storm,, Severe Winter Storm, Earthquakes</i>
Specific problem being mitigated:	Two years ago The Village of Mastic Beach incorporated from the town of Brookhaven. As Hurricane Sandy made landfall, the Mastic Beach mayor, code enforcement officers located in the Village office, and The Village of Mastic Beach fire department responded and participated in many evacuations within the boundaries of their coastal community. One specific need was the lack of a back-up power system at the Village Department of Public Works facility.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Burying Power Lines- Not being pursued as it is cost prohibitive due to long run and Village does not have the legal authority to bury lines 2. Always outsource backup emergency power supply. Not cost effective and will always be relying on outside sources to be available. Also, depending on the event it maybe impossible to get outside resources into village. 3. Take no Action and accept the current level of risk. This is not option because it will impede and the ability for Village to have effective and fully operational response and recovery operation.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach Department of Public Works will need a backup power system as this is a critical component that could optimize any future rescue efforts.
Mitigation Action/Project Type	Structural and infrastructure Project
Objectives Met	2,3,15, 16
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Being able to continue with all village administration, governmental and public works functions for a smooth response and recovery operations. To be able to manage the response and recovery expeditiously. Recent Damages: \$0
Estimated Cost	\$275,000
Priority*	<i>High</i>
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Willaim Biondi - Village Mayor





Local Planning Mechanism	Village Budget- Funds will be requested at next budget cycle for local cost share for funding program
Potential Funding Sources	HMGP,FEMA, CDBG-DR, Village budget for Local Match
Timeline for Completion	6 months after funding approval
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: MB-8 (LOI 2036)

Mitigation Action/Initiative: Generator For Mastic Beach Department of Public Works

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Will allow this critical facility to remain operational during power outages
Property Protection	0	This project will have no significant effect on reducing damage to the Village Department of Public Works structure.
Cost-Effectiveness	1	This project is considered highly cost-effective
Technical	1	There is no technical issues associated with this project, and with routine maintenance will provide long term protection against power interruptions.
Political	1	This project is supported both publically. And politically
Legal	1	The Village has full legal authority to implement the project
Fiscal	0	The Village can currently fund the local match if awarded grant
Environmental	1	There are no environmental constraints associated with this project
Social	1	This project benefits all sectors of the community equally
Administrative	1	The Village has all administrative and technical resources necessary to implement this project
Multi-Hazard	1	This project provides protection against multiple hazards within the community
Timeline	1	This project can be implemented within 6 months once funds are secured
Agency Champion	1	The Village Mayor and Department of Public Works Director are the leads for this critical project
Other Community Objectives	1	This project supports the Village's commitment to provide uninterrupted critical services to their residents, particularly in times of natural disasters and other emergencies
Total	12	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: MB-9 (Sandy HMGP LOI #: 908)
Mitigation Action/Initiative: Storm Water Run-Off Management System

Assessing the Risk	
Hazard(s) addressed:	Flooding, Severe Storms Groundwater Contamination, Hurricane, Nor'Easter
Specific problem being mitigated:	As a result of Superstorm Sandy and the subsequent flooding, the village drainage system was found to be inadequate. In addition, flood water and the contaminates within the water exposed the sensitive wetlands to standing water and other contaminates once the flood water receded.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Take no action and accept the current level of risk-This is not an option for the village. By taking no action storm water runoff will continue to leach into the wetlands and from pollutants from roads and poor drainage system will have major impact on the environment. 2. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach would like to install a proper drainage system that could filter any and all run-off. This run-off system would catch and filter run-off water as it disperses off of roadways, thereby preventing potential pollutants from entering into the Great South Bay, local creeks and streams.
Mitigation Action/Project Type	Structure and Infrastructure
Objectives Met	1, 2, 4, 5, 7, 11, 15,16, 17
Applies to existing structures/infrastructure, future, or not applicable	existing
Benefits (losses avoided)	This project will protect the environment and be able to control the storm water runoff. Village will be able to reclaim and re-use for non potable water needs to help enhance the environment. Recent Damages: \$1,500,000
Estimated Cost	\$5,000,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: William Biondi, Village Mayor
Local Planning Mechanism	Village Budget- Funds will be requested during the next budget cycle for any local match required for funding source.
Potential Funding Sources	HMGP; CDBG-DR, USDA, EPA, NYDEC, Village budget for Local Match
Timeline for Completion	1-2 years after funding source approved





Reporting on Progress

**Date of Status Report/
Report of Progress**

Date:
Progress on Action/Project:

*** Refer to results of Prioritization (page 2)**





Prioritization

Number: MB-9 (Sandy HMGP LOI #: 908)

Mitigation Action/Initiative: Storm Water Run-Off Management System

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will protect health and life safety for general public of the community by eliminating water build up and flooding
Property Protection	1	This project will protect road infrastructure form water over taking roads and damaging roadways
Cost-Effectiveness	1	Very Cost Effective
Technical	1	After system is installed the Village has the resources to maintain the system to keep working properly.
Political	1	This project has support both publically and politically
Legal	1	The village has full legal authority to implement this project
Fiscal	0	The village can currently fund the local match that may be required by any approved funding source.
Environmental	1	This project will have to be permitted properly with NYDEC and meet all environmental assessments and studies required.
Social	1	This project benefits all sectors of the community
Administrative	1	The Village has all administrative resources to implement this project and have oversight of all procurement, reports and manage the project.
Multi-Hazard	1	This project provides protection for multiple hazards
Timeline	1	This project can be implemented within 6 months once funding is secured
Agency Champion	1	The Village Administrator and Public Works Director will be the lead on this project
Other Community Objectives	1	This project supports the Village initiatives for village rebuilding with resiliency and also a state priority initiative for protecting the environment
Total	13	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: MB-10 (Sandy HMGP LOI #: 1139)
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricanes, Severe Storms, Severe Winter Storms, Earthquakes, Wildfires
Specific problem being mitigated:	The citizens of the Village of Mastic Beach in the event of a disaster has no sheltering in place to get people and their pets out of harms way. During Superstorm Sandy there were many citizens that would not leave their homes some even elderly because of pets and or no way to get to safe place.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Transport Residents to other locations in county- not cost effective for village, Village would have to rely on other locations to house residents and their pets, and could be problem getting in and out of village 2. Accept current level of risk and do nothing- this is not an option as we have many citizens who would not evacuate in past storms. They did not want to leave their pets behind. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach is proposing to add additional space to the Village Hall and make it a secured Community Sheltering in Place for residence and their pets and meet all the Codes and Standards set-forth by FEMA's Community Sheltering guidelines. This would help save lives within the village.
Mitigation Action/Project Type	Structure and Infrastructure
Objectives Met	1,2, 3, 14, 15, 16
Applies to existing structures/infrastructure, future, or not applicable	Existing or Future
Benefits (losses avoided)	This project will benefit the citizens of the community by giving them a safe haven during events. And will protect the health and life safety of the citizens. Also, will reduce the risk to first responders from entering hazard zones to rescue citizens and their pets. Recent Damages: \$1,000,000
Estimated Cost	\$1,500,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: William Biondi, Village Mayor





Local Planning Mechanism	Village Budget- Funds will be requested in the next budget cycle for any required local match for any approved funding source
Potential Funding Sources	HMGP, CEBG-DR, FEMA, Private Funding Sources, Village Budget for Local Match.
Timeline for Completion	1-3 years after funding source is approved
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: MB-10 (Sandy HMGP LOI #: 1139)
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will provide and have a significant effect on protection for the residents of the community and their pets during a event that is a safe haven.
Property Protection	0	This project is not going have any significant effect on reducing damage to property
Cost-Effectiveness	1	This project is highly cost effective
Technical	1	This project will have some technical issues in the design phase of retrofitting the facility. The technical phase will be contracted out to qualified Engineering Firm
Political	1	This project is supported both publically and politically
Legal	1	The Village has the legal authority to implement this project as they own the facility and property.
Fiscal	0	The village can currently fund local match for any funding source approved
Environmental	0	This project has no environmental constraints associated with this project
Social	1	This project benefits all sectors of the community equally
Administrative	1	The village has the administrative resources necessary to oversee and manage this project and to ensure proper building codes are in compliance
Multi-Hazard	1	This project provides protection against multiple hazards
Timeline	1	This project can be implemented within 6 months once funding source is secured.
Agency Champion	1	The Village Administrator and Building Code Enforcement Director will be the lead s for this project
Other Community Objectives	1	This project will meet one of the communities priority initiatives to protect the residents and their pets in the community. This is a priority of the Village's Master Planning to rebuild with resiliency and sustainability
Total	11	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: MB-12 (Sandy HMGP LOI #: 905)
Mitigation Action/Initiative: Waste-Water Management System

Assessing the Risk	
Hazard(s) addressed:	Flooding, Severe Storms, Hurricanes, Nor'Easter
Specific problem being mitigated:	As a result of Superstorm Sandy, the Village of Mastic Beach sustained heavy flooding throughout the coastal community. The floodwater uplifted several residential septic tanks during the flood event resulting in sewage filled water to expose the property of young families and elderly the hazardous contaminates.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Take No Action and Accept the current level of risk- This action is not feasible because this problem is causing a health and life safety issue in the community. Additionally it is creating an environmental issue. 2. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The installation of a waste-water management system is essential for the village's economic plan which is based on recreational water and attractions. The installation of this system will boost not only the economy of the village, but the economies of surrounding communities as well. In addition to the economic impact, and in the event of a future storm surge, this waste-water management system would minimize and control any contaminates that could affect the coastal properties of our residents.
Mitigation Action/Project Type	Structure and Infrastructure also Local Plans and Regulations
Objectives Met	1,4,11, 15,16
Applies to existing structures/infrastructure, future, or not applicable	Existing and future
Benefits (losses avoided)	This project will eliminate old septic systems in the community, eliminate raw sewage from being discharged into the environment and on public property that creates a health and life safety issue to the community. Add the potential to create diseases throughout the community. Recent Damages: \$10,000,000
Estimated Cost	\$45,000,000
Priority*	High
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Susan Draghi, Village Clerk
Local Planning Mechanism	Village Budget- Funds will be requested during the next budget cycle for any matching funds for any required local match.





Potential Funding Sources	HMGP; CDBG-DR, EPA, NY DEC, USDA, Village Budget for Local Match
Timeline for Completion	1 year after funding source is awarded
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: MB-12 (Sandy HMGP LOI #: 905)

Mitigation Action/Initiative: Waste-Water Management System

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will protect the health and life safety of the citizens within the community and prevent the spreading of diseases or having an epidemic disease outbreak.
Property Protection	1	This project will prevent properties in the community from getting contaminated from raw sewage discharging into public and private properties.
Cost-Effectiveness	1	This project is considered highly cost effective
Technical	1	Village has contracted Engineering firm to complete studies and design proper system and will manage the technical aspect of the project.
Political	1	This project is supported both publically and politically
Legal	1	The Village has the legal authority to implement this project and to develop new codes and regulations for future building within the village.
Fiscal	1	The Village can currently fund any necessary local match required for any funding sources or has the ability to raise funding.
Environmental	1	This project will be environmentally sensitive and will be permitted through NYDEC and meet all regulatory regulations for Wastewater Treatment Facilities
Social	1	This project benefits all sectors of the community equally
Administrative	1	Village has the administrative resources to manage the implementation of this project and to ensure that all proper procurement regulations, permitting requirements are met. Additionally they have the authority to pass new codes to ensure that all property owners are connected to system and any new building in the future complies with codes.
Multi-Hazard	1	This project will provide protection against multiple hazards
Timeline	1	This project can be implemented within 3 months once funding is secured
Agency Champion	1	Village Mayor and Village Administrator will be the leads for this project to ensure all work on this project is completed timely and within all regulations.
Other Community Objectives	1	The project supports the Village's initiatives and the State's priority initiatives to protect health and life safety of the community and the environment.
Total	14	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: MB-13 (Sandy HMGP LOI #: 1207)
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricanes, Sever Storms Nor'Easter, Coastal Erosion
Specific problem being mitigated:	Village of Mastic Beach is Surrounded by Great South Bay, after Sandy the coastal waterfront properties flooded due to beach and wetland erosions from the storm surge. This created properties flooding severely and more than usual even in tidal times. This area overall had several milion dollars in property damages to roadways and residential properties.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Acquisition all the properties along the waterfront community closing down roadways- Not feasible and would not be cost effective and would have a major impact on the village tax base revenue, This, causing the village to have major budget constraints
	2. Accept the Current Level of Risk and take no further action. This option is not feasible and would not prevent property damage to the water front and the wetlands and beaches
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach would like to enhance and mitigate the waterfront with restoring the wetlands and development of reinforcing the natural barriers of the waterfront. This would help protect properties from flooding and also, protect the wetlands and increasing the wildlife refuge in the area. This would not only provide protection for residential properties it will also, provide a path for economic grwoth to the community in the area of building a tourism program for the nature enthusiast.
Mitigation Action/Project Type	Natural System Protection and Structure / Infrastructure
Objectives Met	1, 2, 3, 5, 6, 10, 15.
Applies to existing structures/infrastructure, future, or not applicable	existing
Benefits (losses avoided)	This project would restore wetlands and make beneficial use of property and help with tourism and raise the economic growth to the community. Project will also restore our beaches and coastal property. Recent Damages: \$1,000,000
Estimated Cost	\$2,500,000
Priority*	High
Plan for Implementation	





Responsible Organization	Village of Mastic Beach: Willaim Biondi, Village Mayor
Local Planning Mechanism	Village Budget- Funds will be requested during next cycle for any local match required for any approved funding sources
Potential Funding Sources	HMGP; US Fish and Wildlife, EPA, NYDEC, USDA, FEMA, Village Budget for Local Match
Timeline for Completion	1-3 years after funding source is approved
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

* Refer to results of Prioritization (page 2)





Prioritization

Number: MB-13 (Sandy HMGP LOI #: 1207)
Mitigation Action/Initiative: Town of Brookhaven / DMA2000 Hazard Mitigation Plan Suffolk County

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	This project will provide protect for the health and life safety of the community
Property Protection	1	This project will have a significant impact on protecting properties not only to residents along the waterfront but also for enhancing the wetlands as a natural resource to protect wildlife habitat
Cost-Effectiveness	1	This project is highly cost effective
Technical	1	This project is technically feasible and will mitigate long term hazards that have impacted the community in the waterfront district.
Political	1	This project has support both publically and politically
Legal	1	The village has the legal authority to implement this project.
Fiscal	0	The village can fund any required local match for any approved funding source
Environmental	1	Village will work with the NYDEC to ensure that all proper permitting and environmental regulations are complied with for this project.
Social	0	This project will benefit all sectors of the community equally
Administrative	1	The Village has the Administrative Resources to manage the project and will rely on outside Engineering Firm to Develop the project within all regulatory regulations
Multi-Hazard	1	This project provides protection for multiple hazards.
Timeline	1	This project can be implemented within 12 months after funding is secured
Agency Champion	1	The Village Administrator and Mayor will be the leads for this project implementation
Other Community Objectives	1	This project meets the Village's and the State's priority initiatives to protect and enhance coastal properties and wetlands and wildlife habitat
Total	12	
Priority (High/Med/Low)	High	





Mitigation Action Worksheet

Please complete one sheet per action/project with as much detail as possible, using the guidance beginning on page 3 and examples provided by FEMA.

Name of Jurisdiction: Village of Mastic Beach
Number: MB-14
Mitigation Action/Initiative: Generator For Department of Public Works Facility

Assessing the Risk	
Hazard(s) addressed:	Earthquake, Flood, Hurricane, Nor'Easter, Severe Storm, Wildfire, Winter Storm
Specific problem being mitigated:	Two years ago The Village of Mastic Beach incorporated from the town of Brookhaven. As Hurricane Sandy made landfall, the Mastic Beach mayor, code enforcement officers located in the Village office, and The Village of Mastic Beach fire department responded and participated in many evacuations within the boundaries of their coastal community. One specific need was the lack of a back-up power system at the Village Department of Public Works facility.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. 2. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village of Mastic Beach Department of Public Works will need a backup power system as this is a critical component that could optimize any future rescue efforts.
Mitigation Action/Project Type	SIP
Objectives Met	2, 13, 14, 15, 16
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$275,000
Priority*	
Plan for Implementation	
Responsible Organization	Village of Mastic Beach: Susan Draghi, Village Clerk
Local Planning Mechanism	
Potential Funding Sources	HMGP; General Fund for Local Match
Timeline for Completion	Short
Reporting on Progress	





**Date of Status Report/
Report of Progress**

Date:
Progress on Action/Project:

*** Refer to results of Prioritization (page 2)**





Prioritization

Number: Sandy HMGP LOI #: 2036

Mitigation Action/Initiative: Generator For Mastic Beach

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (High/Med/Low)		





Guidance to Complete the Mitigation Action Worksheet

The following provides additional guidance on how to complete the Mitigation Project Capture Sheet. If you have any questions, please contact:

Jonathan Raser
Tetra Tech, Inc., 1000 The American Road, Morris Plains, NJ 07950
973-630-8042 jonathan.raser@tetrattech.com

Assessing the Risk

Hazard(s) addressed: Please enter the hazard(s) of concern you are mitigating. For this plan, the hazards of concern identified for the planning area are:

- Coastal Erosion
- Drought
- Earthquake
- Flooding (riverine, flash, coastal, and urban flooding)
- Groundwater Contamination (natural)
- Hurricane (tropical cyclones, including tropical storms and tropical depressions)
- Infestation (Asian Longhorn Beetle, Lyme Disease and West Nile Virus)
- Nor'Easters (extra-tropical cyclones, including severe winter low-pressure systems)
- Severe Storms (windstorms, thunderstorms, hail, lightning and tornados)
- Severe Winter Storm (heavy snow, blizzards, ice storms)
- Shallow Groundwater
- Wildfire
- Expansive Soils

Specific problem being mitigated: Please describe the specific problem being mitigated.

Evaluation of Potential Actions/Projects

Actions/Projects Considered: Please consider different options to mitigate the problem identified. One alternative is always to accept the current level or risk (tolerate the vulnerability/problem) by deciding to take no action at this time. If you choose to take no action, please complete the worksheet up to and including this section and this will be noted in the Plan.

Please include the name of the action considered and a brief reason as to why the action was not selected. The reasoning documents the consideration of these alternatives.

Action/Project Intended for Implementation

Description of the Selected Project: Please provide a brief description of the selected project.

Mitigation Action Type:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP)- These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could





apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.

- Natural Systems Protection (NRP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Objectives: Please insert the plan objectives (by number) that would be met if the action/project is implemented.

Plan Objectives:

1. Enhance the public’s understanding of natural hazards, the risk they pose and ways to mitigate those impacts.
2. Retrofit, acquire, or relocate structures in high hazard areas, including but not limited to those known to be or subject to repetitive damages.
3. Continually improve understanding of the location and potential impacts of natural hazards, the vulnerability of building types, and community development patterns and the measures needed to protect life safety at the local government level.
4. Strengthen codes so that new construction can withstand the impacts of natural hazards and lessen the impact of that development on the environment’s ability to absorb the impact of natural hazards.
5. Seek projects that minimize or mitigate their impact on the environment including but not limited to: beach nourishment, stream channel restoration, and wetlands creation/preservation.
6. Consider providing incentives to promote wise land uses in known or identified high risk areas.
7. Establish a partnership among all levels of government and the business community to improve and implement methods to protect property.
8. Develop and implement wildfire mitigation and watershed. Protection strategies that reduce losses to wildlife habitat and protect water while also reducing damage to development.
9. Lower cost of flood insurance premiums through CRS program.
10. Protect against invasive species (noxious weeds) and exclude and eradicate invasive insects, disease, and weeds.
11. Implement water conservation measures, use reclaimed water, and increase groundwater usage, create surface water storage where appropriate.
12. Develop or improve early warning emergency response systems and evacuation procedures.





13. Work to lower emergency service response times, including improvement to transportation facilities.
14. Seek to integrate/coordinate all phases of Emergency Management within the planning area.
15. Seek mitigation projects that provide the highest degree of natural hazards protection at the least cost by considering projects that will mitigate the impacts of multiple hazards and/or leverage multiple funding sources.
16. Increase resilience of critical facilities and infrastructure.
17. Implement best stormwater management practices and seek to implement identified stormwater management activities and projects, including securing needed funding.

Benefits: Please describe the losses avoided when the project is implemented. This includes physical property damage; loss of function; road closing/detours; etc.

Estimated Cost:

Please provide the estimated cost or use the following ranges:

Low = < \$10,000 Medium = \$10,000 to \$100,000 High = > \$100,000

Priority: Please enter High/Medium/Low. Refer to the prioritization exercise and table, and instructions below.

Plan for Implementation

Potential Funding Source: Please identify the anticipated funding source, which could be “Grant funding with local cost share”. Sources may include federal, state and local sources.

Timeline for Completion: Short = 1 to 5 years. Long Term = 5 years or greater. OG = On-going program.

Reporting on Progress

Note: This is for long term project progress review and need not be completed at this time.

Please provide a status update on the selected action/project. Along with this description, please indicate if the action/project is completed or not completed.

Actions which are not complete may be dropped with a rational provided (e.g., project deemed unfeasible...). Other incomplete actions should clearly be indicated as continuing; indicate percent complete, and identify any hurdles/obstacles/reasons for change in schedule. Even actions that have had no progress to date can be identified as continuing. For any action that is not yet complete and will continue, always consider modifying the action to promote implementation.

Please note this report on progress should be done, at minimum, each year prior to the annual Planning Committee update outlined in the plan maintenance procedures in Section 7 (Plan Maintenance).





Guidance to Complete the Evaluation/Prioritization Table

Complete this table to help evaluate and prioritize each mitigation action being considered by your municipality. Please use these 14 criteria to assist in evaluating and prioritizing new mitigation actions identified. Specifically, for each new mitigation action, assign a numeric rank (-1, 0, or 1) for each of the 14 evaluation criteria in the provided table, defined as follows:

- 1 = Highly effective or feasible
- 0 = Neutral
- -1 = Ineffective or not feasible

Use the numerical results of this exercise to help prioritize your actions as “Low”, “Medium” or “High” priority. Your municipality may recognize other factors or considerations that affect your overall prioritization; these should be identified in narrative in the Priority field of the worksheet.

The 14 evaluation/prioritization criteria are:

1. Life Safety – How effective will the action be at protecting lives and preventing injuries?
2. Property Protection – How significant will the action be at eliminating or reducing damage to structures and infrastructure?
3. Cost-Effectiveness – Are the costs to implement the project or initiative commensurate with the benefits achieved?
4. Technical – Is the mitigation action technically feasible? Is it a long-term solution? Eliminate actions that, from a technical standpoint, will not meet the goals.
5. Political – Is there overall public support for the mitigation action? Is there the political will to support it?
6. Legal – Does the jurisdiction have the authority to implement the action?
7. Fiscal - Can the project be funded under existing program budgets (i.e., is this initiative currently budgeted for)? Or would it require a new budget authorization or funding from another source such as grants?
8. Environmental – What are the potential environmental impacts of the action? Will it comply with environmental regulations?
9. Social – Will the proposed action adversely affect one segment of the population? Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people?
10. Administrative – Does the jurisdiction have the personnel and administrative capabilities to implement the action and maintain it or will outside help be necessary?
11. Multi-hazard – Does the action reduce the risk to multiple hazards?
12. Timeline - Can the action be completed in less than 5 years (within our planning horizon)?





13. Local Champion – Is there a strong advocate for the action or project among the jurisdiction’s staff, governing body, or committees that will support the action’s implementation?
14. Other Local Objectives – Does the action advance other local objectives, such as capital improvements, economic development, environmental quality, or open space preservation? Does it support the policies of other plans and programs?

