



9.19 Town of Huntington

This section presents the jurisdictional annex for the Town of Huntington.

9.19.1 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
Betty Walsh, Special Assistant to the Supervisor 100 Main Street, Huntington, NY (631) 351-3001 bwalsh@town.huntington.ny.us	Matthew Wieder, Planning Aide 100 Main Street, Huntington, NY (631) 351-3196 Mwieder@town.huntington.ny.us

9.19.2 Municipal Profile

This section provides a summary of the community.

Population

According to the U.S. Census, the 2010 population for the Town of Huntington was 203,264.

Location

Huntington is a town located on the North Shore of Long Island, directly east of the county line in Suffolk County. The town is 87,753.6 acres, which includes four (4) incorporated villages that have a combined area of 9,873.5 acres (Village of Northport 1,609.48 acres, Village of Lloyd Harbor 6,730.49 acres, Village of Huntington Bay 603.77 acres, Village of Asharoken 929.76 acres).

Brief History

On April 2nd, 1653, when Richard Holbrook, Robert Williams and Daniel Whitehead, all of Oyster Bay, bought from Raseokan, Sachem of the Matinecock tribe, a parcel of land that is now known as "the First Purchase." The Oyster Bay men immediately turned the land over to a group of white men who had already settled within its boundaries. This first purchase was bordered on the west by Cold Spring Harbor, on the east by Northport Harbor, on the south by what is now known as Old Country Road and on the north by Long Island Sound. As time went on, other land was purchased from the Indians, gradually extending the limits of the town from Long Island Sound on the north to Great South Bay on the south, and from Oyster Bay on the west to Smithtown and Islip on the east. In 1872, part of the town was removed to form the Town of Babylon.

When in 1664 the Duke of York became proprietor of the area formerly known as New Netherland, he (in the person of Governor Richard Nicholls) informed Connecticut that by virtue of his royal patent they no longer had any claim to any territory on Long Island. Governor Nicholls summoned representatives of each town on Long Island to meet in Hempstead early in 1665. The representatives were required to bring with them evidence of title to their land and to receive new grants affirming that title. The Hempstead Convention also adopted the "Duke's Laws," which regulated virtually every area of life. At this time, too, Long Island, Staten Island and Westchester were formed into an entity called "Yorkshire," which was





divided into three parts, or "ridings," as land was divided in England. Suffolk County, including Huntington, became part of the East Riding. With some modifications, including the abolition of "Yorkshire" and "ridings," this was the form that the government of New York retained until the Revolution.

Governor Thomas Dongan issued a patent in 1688 that confirmed the earlier Nicholls Patent. In addition, it mandated the creation of "Trustees" to manage and distribute town-owned land. The Trustees, like other town officials, were chosen at a Town Meeting. The Dongan Patent also authorized the creation and use of a seal, which is still in use today.

In the years between the first settlement of the town and the start of the American Revolution, Huntington became an established community. The earliest settlers clustered near what became known as the "town spot", the site of the present Village Green. As the town prospered and grew, people moved to fill the outlying areas. In addition to the many farms that were established in remote as well as central portions of the town, the town included a school, a church, flour mills, saw mills, brickyards, tanneries, a town dock and a fort.

Huntington's fine harbor meant that shipping became an important part of the economy. The harbor was a busy place, with vessels traveling not only to and from other ports along the Sound but also as far as the West Indies. Ship making and related nautical businesses prospered, since water was for many years by far the most efficient way to transport both goods and people. In the first half of the nineteenth century, Cold Spring Harbor was a busy whaling port, second on Long Island only to Sag Harbor.

In June 1774 Huntington adopted a "Declaration of Rights" affirming "that every freemans property is absolutely his own" and that taxation without representation is a violation of the rights of British subjects. The Declaration of Rights also called for the colonies to unite in a refusal to do business with Great Britain. Two years later, news of the Declaration of Independence was received with great enthusiasm in Huntington, but the euphoria was short-lived. Following the defeat of the rebel forces at the Battle of Long Island on August 27, 1776 Long Island was occupied by the British Army. Residents were required to take oaths of allegiance to the Crown. If a man refused to take the oath, he and his family could be turned off their property, losing everything. In 1782 the occupying army established an encampment in Huntington's Old Burying Ground, razing tombstones to clear the site. Not surprisingly, many townspeople resisted, waging guerilla warfare until the war was over and the British left in 1783.

Nathan Hale landed at Huntington in 1776, coming by boat from Norwalk, Connecticut on a spying mission for George Washington. Sent to gather information about the British forces on Long Island and in New York City, he was captured and executed in New York City in September 1776. A memorial stands at the approximate site of his coming ashore in Huntington, an area now known as Halesite.

Huntington's best-known resident, Walt Whitman, was born in West Hills in 1819. His family moved to Brooklyn when he was a child but he returned to Long Island as a young man. At the age of 19 he founded *The Long-Islander*, a Huntington newspaper still in existence.

When World War II ended in 1945 the population of Huntington, like that of Long Island as a whole, exploded. After almost 200 years of gradual growth, the population of the town mushroomed. Huntington had approximately 32,000 residents in 1940. By 1960 there were 126,000 inhabitants. By the 1980s the population had gone over the 200,000 mark. With the enormous growth of the town its rural landscape changed. Farms and vacant land disappeared, replaced by housing, schools, highways, recreational facilities and new and expanding business and industry.



Huntington was named an All-American City in 2002 by the National Civic League. It was also a finalist in 2001.

Governing Body Format

The Town of Huntington is governed by a five-member Town Board, comprised of the Town Supervisor and 4 Council members. This body will assume the responsibility for the adoption and implementation of this Plan. The Town of Huntington consists of 17 departments: Accessory Apartments, Assessor, Audit and Control, Citizen Services, Community Development, Engineering Services, Environmental Waste Management, General Services, Highway, Historian, Human Services, Information Technology, Maritime Services, Parks and Recreation, Personnel, Planning and Environment, Public Safety, Receiver of Taxes and the Supervisor’s Office.

Growth/Development Trends

The following table summarizes major residential/commercial development and major infrastructure development that are identified for the next five (5) years in the municipality. Refer to the map in section 9.19.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.19-1. Growth and Development

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

* Only location-specific hazard zones or vulnerabilities identified.

9.19.3 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 9.19-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
October 27-November 8, 2012	Hurricane Sandy	DR-4085	Yes – IA (Individual Assistance) and PA	
August 26 – September 5, 2011	Hurricane Irene	EM 3328 DR 4020	Yes – IA and PA	
December 26-27, 2011	Severe Winter Storm and Snowstorm	DR 1957	Yes - PA	
March 13-31, 2010	Severe Storms and Flooding	DR 1899	Yes - PA	
November 12-14, 2009	Severe Storms and	DR 1869	Yes - PA	



Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
	Flooding associated with TD Ida and Nor'Easter			

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

9.19.4 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 Town of Huntington. 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 Town of Huntington.

Table 9.19-3. 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)
4	Coastal Erosion	RCV in CEHA: \$173,753,044	Frequent	18
7	Drought	Damage estimate not available	Occasional	0
8	Earthquake	500-Year MRP: \$70,139,810 2,500-Year MRP: \$1,240,131,901	None	0
6	Expansive Soils	Damage estimate not available	Rare	6
2	Flood	1% Annual Chance: \$30,854,144 0.2% Annual Chance: \$75,643,790	Frequent	36
5	Groundwater Contamination (natural)	Damage estimate not available	Occasional	14
3	Hurricane	Category 1 SLOSH: \$391,950,507 Category 2 SLOSH: \$1,143,430,731 Category 3 SLOSH: \$1,608,654,626 Category 4 SLOSH: \$1,922,323,807	Occasional	24
6	Infestation	No measurable impact to property	Frequent	8
1	Nor'Easter	100-Year RCV: \$720,975,178 500-Year RCV: \$22,681,256,507	Frequent	54
1	Severe Storm	100-Year RCV: \$720,975,178 500-Year RCV: \$22,681,256,507	Frequent	54



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)
1	Severe Winter Storm	1% of GBS: \$528,573,049 5% of GBS: \$2,642,865,246	Frequent	54
4	Shallow Groundwater Flooding	Damage estimate not available	Frequent	18
7	Wildfire	Estimated RCV in Interface/Intermix: \$2,422,005,274	None	0

- 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

The following table summarizes the NFIP statistics for the municipality.

Table 9.19-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)	# Policies in 500-Boundary (3)	# Policies Outside the 500-year Flood Hazard (3)
Town of Huntington	875	521	\$6,451,178	27	2	80	7	788

- Source: FEMA Region 2, 2014
- Note (1): Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of January 31, 2014. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents the number of claims closed by January 31, 2014.
- Note (2): Information regarding total building and content losses was gathered from the claims file provided by FEMA Region 2.
- Note (3): The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file. FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.

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 9.19-5. 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⁾
Halesite Basic Life Support	Fire						3.2	3.6	480
Halesite Fire Department	Fire						3.2	3.6	480
Huntington Town Stp	Wastewater		X						

Source: HAZUS-MH 2.1

Note: x = Facility located within the 0.2-percent annual chance flood boundary.

Please note it is assumed that wells have electrical equipment and openings are three-feet above grade.

(1) HAZUS-MH 2.1 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.1 User Manual).

(2) In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type.

Other Vulnerabilities Identified by Municipality

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

- The northern boundary of our Town abuts the Long Island Sound, Huntington and Northport Bays, Cold Spring, Lloyd, Huntington, Centerport and Northport Harbors, all of which are densely developed except for natural park areas. There is significant potential for loss of life and property from storm surges resulting from heavy storms and seasonal hurricanes. During the 5 year period since the initial mitigation plan was adopted Huntington has experienced significant damage to property both public and private. The Town continually replenishes sand lost at our nine town beaches each year. We must continually maintain docks and bulkheads at our Town Marinas and Boat ramps. There have been several near and one actual breach of the causeways that provide sole vehicular access to two major peninsula’s that are home to several thousand year round residents.
- During Hurricane Sandy we experienced wind and flood damage to the Town Senior Center at the Centerport Beach and to eight individual homes as well as wind and falling tree damage to hundreds of structures within the Town.
- The following parts of the Town are noted as particularly flood vulnerable:
 - Makinaw Beach Road (3 structures currently being mitigated)
 - Knollwood Area (lowest residential part of Town)
- There are other limited areas of repetitive flood damage, primarily single pre-FIRM unimproved properties, including three (3) Substantially Damaged properties.



9.19.5 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 9.19-6. 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		Town Building and Engineering	Town has adopted NYS Building Code 9/1/1967 (which now contain the International Code) Suffolk County Dept. of Health Services Adopted FEMA standards
Zoning Ordinance	Y	Local and County (1)		First Zoning Ordinance in the Town of Huntington was adopted 1934 the most recently adopted Zoning Ordinance was adopted by the Town 1979 § 198-1 of the Code of the Town of Huntington states “Purpose. The zoning regulations and districts as herein established have been made in accordance with a comprehensive plan for the purpose of promoting health, safety, morals and general welfare in the Town of Huntington. They have been designed to lessen congestion in the streets; to secure safety from fire, panic and other dangers; to provide adequate light and air; to prevent the overcrowding of land; to avoid undue concentration of population; to facilitate the adequate provision of transportation, water supply, sewage disposal, schools, parks and other public requirements. They have been made with reasonable consideration, among other things, to the character of the district and its peculiar suitability for particular uses, and with a view to conserving the value of buildings and encouraging the most appropriate use of land throughout the Town.” Currently considering amending the Zoning Code to permanently allow for the buildings to be constructed higher than the 35 foot maximum in floodplain areas to allow for the raising of homes and structures to comply with FEMA standards.
Subdivision Ordinance	Y	Local and County (1) (2)	Town Planning	The Town of Huntington first adopted the current Subdivision Regulations and Site Improvement Specifications first established 1960 with latest amendment August 23, 2005. These regulations are also referred to in §A202 of Town Code.



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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.)
				Currently considering requiring all new construction to comply with FEMA standards.
NFIP Flood Damage Protection Ordinance	Y		Building Dept.	Ch. 168
NFIP - Freeboard	Y	NYS Building Code	Building Dept.	Ch. 168; State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other
NFIP- Cumulative Substantial Damages	N			Tracked by Department responsible for Maintenance
Special Purpose Ordinances	Y	Local	Town Dept of Engineering; NYS Department of Environmental Conservation	Dept of Engineering & §198-12.2 of the Town of Huntington's Zoning Ordinance Originally added in 1988 Amended 12-6-1994 by Ord. No. 94-ZC-21; 6-11-1996 by Ord. No. 96-ZC-11; 5-5-1998 by L.L. No. 19-1998 Planning reviews steep slope areas as per ARTICLE X, The Steep Slopes Conservation Law [Added 8-23-2005 by L.L. No. 30-2005 last Amended 1-9-2007 by L.L. No. 4-2007] NYS Department of Environmental Conservation – Federal Emergency Management Agency Dept of Engineering & §198-12.2 of the Town of Huntington's Zoning Ordinance Originally added in 1988 Amended 12-6-1994 by Ord. No. 94-ZC-21; 6-11-1996 by Ord. No. 96-ZC-11; 5-5-1998 by L.L. No. 19-1998 New York State Dept of Environmental Conservation/ Federal Emergency Management Agency
Growth Management	Y	Local	Town Planning	
Floodplain Management / Basin Plan				
Stormwater Management Plan/Ordinance	Y	State	New York State Dept. of Environmental Conservation / Federal Environmental Protection Agency	Reviewed for conformance with §198-72 during Site plan and/or building permit process New York State Dept. of Environmental Conservation / Federal Environmental Protection Agency Updated MS -4 requirements to comply with State regulations
Comprehensive Plan / Master Plan	Y	Local		Latest version Adopted 1993, currently have a consulting firm preparing a new comprehensive plan 2020 Plan adopted in interim
Capital Improvements Plan	Y	Local		§12 of the Town Code which was amended in its entirety 7-6-1976 by L.L. No. 3-1976 Updated annually
Site Plan Review Requirements	Y	Local	Dept's of marine Services and Engineering and planning	The Town of Huntington first adopted the current Subdivision Regulations and Site Improvement Specifications first established 1960 with latest amendment August 23, 2005 Increased storm water capacity requirement
Habitat Conservation Plan	Y	Local		Tree Ordinance as per §186 of the Town Code last revised in 2002 (revisions pending) Currently completing habitat inventory
Economic	Y	Local		There is an Econ Dev Component in the



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.)
Development Plan				Comprehensive Plan, 2020 Plan updated Economic Development component
Emergency Response Plan	Y	Local and County (1) (2)	Suffolk County Fire, rescue and Emergency Services/State Emergency Management Office/ Federal Emergency Management Agency	All Hazards Plan was accepted by the Town Board (Res.2003-128) Updated annually
Shoreline Management Plan	Y	State	New York State Dept. of Environmental Conservation, Department of Maritime Services	Marine conservation law; coastal erosion management; marine conservation law Chapter 134, LOCAL WATERFRONT CONSISTENCY REVIEW Adopted by the Town Board of the Town of Huntington 4-18-2000 by L.L. No. 9-2000
Post Disaster Recovery Plan	Y	County, State, Federal	Suffolk County Fire, rescue and Emergency Services, State Emergency Management Office Federal Emergency Management Agency	All Hazards Plan accepted by the Town 2003 (Res. 2003-128)
Post Disaster Recovery Ordinance	No			
Real Estate Disclosure req.	Not within Town or County jurisdiction	State	Department of Education	
Other (e.g. steep slope ordinance, local waterfront revitalization plan)	Yes	Town	Department of Planning and Environment	

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Huntington.

Table 9.19-6. 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	Department of Planning and Environment: Environmental Planner, Environmental Analyst, Senior Planner, Director
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Department of Building and Engineering: Engineers, Plans Examiners and Inspectors; Highway Engineers
Planners or engineers with an understanding of natural hazards	Y	Department of Building and Engineering: Engineers



Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
NFIP Floodplain Administrator	Y	Director of Engineering Services or designee; currently Steve Thomas
Surveyor(s)		Department of Building and Engineering; Highway
Personnel skilled or trained in “GIS” applications	Y	Department of Planning and Environment: GIS Manager; Highway
Scientist familiar with natural hazards in the County.	Y	We do have environmental analysts
Emergency Manager	Y	Office of the Supervisor, Special Assistant to the Supervisor – Office of the Fire Marshall/Dept of Engineering –Chief Fire Marshall No Change
Grant Writer(s)	Y	Most Departments in town have capable grant writers
Staff with expertise or training in benefit/cost analysis	Y	Planning and Engineering Departments

Fiscal Capability

The table below summarizes financial resources available to the Town of Huntington.

Table 9.19-7. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG)	Yes
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	Yes
Impact Fees for homebuyers or developers of new development/homes	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Mitigation grant programs	Yes
Other	

Community Classifications

The table below summarizes classifications for community program available to the Town of Huntington.

Table 9.19-8. Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)	Not Participating	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	99/99	2000
Public Protection	5/9	-
Storm Ready	Not Participating	N/A
Firewise	Not Participating	N/A

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:

NFIP Floodplain Administrator: Stephen Thomas

Program and Compliance History

Town of Huntington joined the NFIP on November 1, 1978, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009. The community's Flood Damage Prevention Ordinance (FDPO), found at Chapter 168 of the local code, was last updated on September 8, 2009.

As of January 31, 2014 there are 875 policies in force, insuring \$265,321,600 of property with total annual insurance premiums of \$592,251. Since January 31, 2014, 521 claims have been paid totaling \$6,451,178.34. As of January 31, 2014 there are 27 Repetitive Loss and 2 Severe Repetitive Loss properties in the community.

The community is currently in good standing in the NFIP and has no outstanding compliance issues. The current NFIP Floodplain Administrator has no knowledge of when the last CAV was performed. The municipality sees no specific need for a CAV at this time.

Loss History and Mitigation

Since January 31, 2014, 521 claims have been paid totaling \$6,451,178.34. As of January 31, 2014 there are 27 Repetitive Loss and 2 Severe Repetitive Loss properties in the community.

Three homes were damaged due to flooding following Hurricane Sandy; all received Substantial Damage determinations. Substantial Damage determinations were based on estimates from contractors and on-site evaluations made by the floodplain administrator to see if damages met the criteria. One property was a repetitive loss property. Funding sources include private money, flood insurance, and ICC money.

Planning and Regulatory Capabilities





The communities Flood Damage Prevention Ordinance (FDPO) was last updated on September 8, 2009, and is found at Chapter 168 of the local code.

Floodplain management regulations and ordinances meet FEMA and New York State requirements. Following Hurricane Sandy, one home was granted a height variance by the Town Board. This property was in a coastal erosion zone.

Administrative and Technical Capabilities

The community FDPO identifies the Director of Engineering Services as the local NFIP Floodplain Administrator, currently Stephen Thomas, for which floodplain administration is an auxiliary duty.

Duties and responsibilities of the NFIP Administrator are permit review, inspections, damage assessments, and record-keeping.

A list is maintained of properties that have been flood damaged. Due to the lower number of flood-damaged homes and the associated permits that are reviewed, the Town is able to keep track of how many homes are interested in mitigation.

Three homes were damaged due to flooding following Hurricane Sandy; all received Substantial Damage determinations. Substantial Damage determinations were based on estimates from contractors and on-site evaluations made by the floodplain administrator to see if damages met the criteria.

Stephen Thomas feels he requires additional support and training to fulfill his responsibilities as the municipal floodplain administrator. He has self-trained for the position and is ready to take the CFM exam, but does not have the funding to do so. Stephen Thomas is not certified in floodplain management, however attends regular continuing education programs for code enforcement.

Public Education and Outreach

No education and outreach is provided from the Floodplain Administrator to the community regarding flood hazards, risks, or flood risk reduction through NFIP insurance or mitigation.

Duties and responsibilities of the NFIP Administrator are permit review, inspections, damage assessments, and record-keeping.

Actions to Strengthen the Program

Current barriers to running a more effective floodplain management program include additional staffing and money. At this time, it is only the floodplain administrator implementing the program and he feels more support staff is necessary. After Hurricane Sandy, that is when the floodplain administrator was made aware of his responsibilities as floodplain administrator.

Additional training and education on floodplain administration and the Community Rating System (CRS) would be welcomed. The floodplain administrator is unable to complete his CFM training at this time due to lack of funding and local training would allow him to obtain his CFM. CRS involvement has not been discussed in the Town but with new information and a better understanding of the program, Huntington would consider its options as a CRS community.



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/on-going programs and may be considered mitigation “capabilities”:

- **Floodplain Management-** Update Floodplain mapping throughout the Town to reflect the most current data available in order to make the most informed decisions (Completed 2008 mitigation action).
- **Emergency Response Plan-** Consider the development of a post –disaster action plan, including a debris management plan. This to be incorporated into existing emergency management/ hazard mitigation plans (Completed 2008 mitigation action).
- **Infrastructure Protection/Floodplain Management-** Town-wide Drainage Inventory including GPS location and elevation data. An Accurate Drainage inventory would enable the town to create a proactive flood prevention plan which would mitigate storm damage loss to several billion dollars’ worth of private and public infrastructure.
- **Infrastructure Protection-** Engineered Beaches: continue our on-going beach nourishment program for all Town beaches.
- **Infrastructure Protection-** Nourishment plans and re-grading help to maintain the beaches and mitigate erosion.
- **Infrastructure Protection-** Survey all town beaches and maritime facilities and maintain survey of these facilities as baseline to determine loss of sand and structures.
- **Infrastructure Protection/Floodplain Management-** Develop and/or enhance the current stormwater management system to be in compliance with federal and state regulations such that there will be a net reduction in the flood risk caused by stormwater impacts (MS4 program).



9.19.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2008 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.

Table 9.19-9. Past Mitigation Initiative Status

Description	Status	Review Comments
H-1: At the Flanagan Senior Center, reinforce all vulnerable areas (windows, doors, atrium) to wind (thru Laminated, Storm shutters Dade City glass) to secure the building from damage and return its use as a shelter for families of town response personnel/special needs.	No Progress / Unknown	Project has not been completed due to lack of resources, including available funding. Project to be carried forward in updated mitigation strategy.
H-2: Expand Public Information/Education (print, web and electronic media) by updating the Town of Huntington Website and GIS to reflect potential hazards.	100% Completed, Continuous	A modified version of this initiative is being carried forward, specifically identifying additional education and outreach elements (integration action).
H-3: Update Floodplain mapping throughout the Town.	100% Completed	This is now identified as an integration capability.
H-4: Annual NIMS and ICS Training for Town and 4 village’s response personnel. To better prepare all response personnel with regard to system and protocol changes and updates to benefit the public health and safety	100% Completed, Continuous	
H-5: Develop mitigation initiative to mitigate flooding at Mill Rd, Creek Rd., Rt.110. Mitigate road and property flooding at these locations. Project to be completed in 2 phases. Phase 1 feasibility and project selection. Phase 2 project construction	100% Completed	
H-6: Improve alternative communication capabilities. Mitigate potential loss of communication between town depts., response organizations, SCFRES and the public	100% Completed	
H-7: Raise flood prone areas that are adjacent to major thoroughfares. Elevate Vulnerable Roadways and implement culverts or alternative flood redirection where plausible.	Completed, Culverts completed	
H-8: Retrofit facility and equipment for the Emergency Operations Center to meet current standards and to aid readiness, response and recovery efforts. Improve overall operations for the benefit for the public and emergency responders and coordinating agencies.	100% Completed	
H-9: Consider the development of a post – disaster action plan, including a debris management plan. This to be incorporated into existing emergency management/ hazard mitigation plans.	100% Completed	This is now identified as an integration capability.





Description	Status	Review Comments
H-10: Town-wide Drainage Inventory including GPS location and elevation data. An Accurate Drainage inventory would enable the town to create a proactive flood prevention plan which would mitigate storm damage loss to several billion dollars' worth of private and public infrastructure.	100% Completed	This is now identified as an integration capability.
H-11: Town-wide tree inventory and removal program including risk assessment and GPS data for trees. Identification and removal of trees which pose a significant threat to public and private infrastructure during a storm event would mitigate storm damage loss to several billion dollars' worth of property.	In progress (25% Completed), Continuous	A modified version of this initiative is carried forward in the updated mitigation strategy, and will be completed as resources permit.
H-12: Engineered Beaches: continue our on-going beach nourishment program for all Town beaches. Nourishment plans and re-grading help to maintain the beaches and mitigate erosion.	100% Completed	This is now identified as an integration capability.
H-13: Survey all town beaches and maritime facilities and maintain survey of these facilities as baseline to determine loss of sand and structures.	100% Completed	This is now identified as an integration capability.
H-14: Reduced bus route plan for each school district within the town. The sooner a school district can be reopened after an event the greater return to normalcy and return to economic productivity and security within the community.	100% Completed	
H-15: Protect major feeder route for Lloyd Harbor during a storm: Bulkhead Shore Road, Cold Spring Harbor.	In progress	Post Storm Measures Completed
H-16: Consider non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, including those that have been identified as repetitive loss, such as acquisition/relocation, or elevation depending on feasibility. The parameters for feasibility for this initiative would be: funding, benefits versus costs and willing participation of property owners.	On-going / Continuous	A modified version of this initiative is being carried forward, specifically identifying specific vulnerable areas and areas where active mitigation efforts are ongoing. The Village is currently supporting a number of residential mitigation projects, through the building and code enforcement process.
H-17: Support county-wide initiatives identified in Section 9. 1of the Suffolk County Annex. Support county-wide initiatives identified in the Suffolk County Hazard Mitigation Plan	On-going / Continuous	A modified version of this initiative is being carried forward, specifically identifying those county led initiatives that the Town will support and/or participate in.
H-18: Consider participation in incentive-based programs such as, CRS and "Storm-Ready". Consider participation in incentive based programs such as, CRS and "Storm-Ready"	Continuous	A modified version of this initiative is being carried forward, specifically identifying those county led initiatives that the Town will support and/or participate in.
H-19: Develop and/or enhance the current stormwater management system to be in compliance with federal and state regulations such that there will be a net reduction in the flood risk caused by stormwater impacts	On-going / Continuous	This initiative has been removed from the updated mitigation strategy as it is an ongoing program (MS4), and now considered a capability.



Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

None identified at this time by the municipality.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Huntington 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 9.19-10 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 9.19-11 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.19-10. 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
H-1 (Sandy HMGP LOI #226)	Raising Elevation of Sanitary Motors at 3 Marinas					See Action Worksheet (H-1-LOI 226-031214)					
H-2 (Sandy HMGP LOI #232)	Installation of additional pilings at Soundview to support floats.					See Action Worksheet (H-2-LOI 232- 031214)					
H-3 (Sandy HMGP LOI #236)	Adding Hurricane Slats to protect Doors at the Beach Pavilions.					See Action Worksheet (H-3-LOI 236- 031214)					
H-4 (Sandy HMGP LOI #245)	Raise Elevation of Utilities at Harbormaster's Office.					See Action Worksheet (H-4-LOI 245-031214)					
H-5 (Sandy HMGP LOI #248)	Adding Hurricane Slats at Crab Meadow Restaurant and Arches.					See Action Worksheet (H-5-LOI 248-031214)					
H-6 (Sandy HMGP LOI #252)	Re-building the FLUPSY Facility at a Higher Elevation.					See Action Worksheet (H-6-LOI 252-031214)					
H-7 (Sandy HMGP LOI #477)	Re-building the FLUPSY facility at a higher elevation.					See Action Worksheet (H-7-LOI 477- 031214)					
H-8 (Sandy HMGP LOI #478)	Hurricane Slats at Crab Meadow Restaurant and Arches.					See Action Worksheet (H-8-LOI 478- 031214)					
H-9	Elevation of Utilities at the					See Action Worksheet					



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	
(Sandy HMGP LOI #483)	Town Harbor Master's Office.											(H-9—LOI 483- 031214)
H-10 (Sandy HMGP LOI #485)	Hurricane Slats to protect the Beach pavilions.					See Action Worksheet (H-10-LOI 485- 031214)						
H-11 (Sandy HMGP LOI #486)	Installation of additional pilings at the Soundview Boat Ramp.					See Action Worksheet (H-11-LOI 486- 031214)						
H-12 (Sandy HMGP LOI #488)	Raising the Elevation of Sanitary Motors at 3 Marinas.					See Action Worksheet (H-12-LOI 488- 031214)						
H-13 (Sandy HMGP LOI #1172)	GIS Integrated Emergency Operations Dashboard for Resource Management During EOC Operations. Operations Dashboard for ArcGIS					See Action Worksheet (H-13-LOI 1172-031214)						
H-14 (Sandy HMGP LOI #1181)	Training and Deployment of Trimble - Juno GPS Devices, for Emergency Inspection Teams. <input type="checkbox"/> Juno GPS Handhelds for Emergency Management					See Action Worksheet (H-14-LOI 1181- 031214)						
H-15 (Sandy HMGP LOI #1195)	3D Laser Scanning System. 3-D Image Scanner					See Action Worksheet (H-15-LOI 1195- 031214)						
H-16 (Sandy HMGP LOI #1738)	Install a fixed electric generator at east Northport Highway facility					See Action Worksheet (H-16-LOI 1738- 031214)						
H-17	Install a force main at					See Action Worksheet						





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	
(Sandy HMGP LOI #1745)	Broadway Huntington Station and Folsom Avenue											(H-17-LOI 1745- 031214)
H-18 (Sandy HMGP LOI #1880)	Install a fixed electric generator at East Northport highway facility.					See Action Worksheet (H-18-LOI 1880- 031214)						
H-19 (Sandy HMGP LOI #1884)	Generator for the Huntington Town Hall.					See Action Worksheet (H-19-LOI 1884- 031214)						
H-20 (Sandy HMGP LOI #1885)	Generator for the Dix Hills Ice Rink.					See Action Worksheet (H-20-LOI 1885- 031214)						
H-21 (Sandy HMGP LOI #1892)	Install a Force Main at Broadway/Folsom Ave Huntington Station					See Action Worksheet (H-21-LOI 1892- 031214)						
H-22 (Sandy HMGP LOI #473)	Supervisory Control and Data Acquisition (SCADA) system.					See Action Worksheet (H-22-LOI 473-031314) (No Submit)						
H-23 (Sandy HMGP LOI #1876)	Natural Gas Generator Back-Up Power at Well 17, Buttercup La. Water Supply and Treatment Facility . Greenlawn Water District.	Existing Structure	Hurricane, Nor' Easter, Severe Storm, Severe Winter Storm, Earthquake	16				See Action Worksheet (H-23 – LOI 1876 - 031814)				
H-24 (Sandy HMGP LOI #1878)	Natural Gas Generator Back-Up Power at Well 8, Burr Rd. Water Supply and Treatment Facility. Greenlawn Water District.	Existing Structure	Hurricane, Nor' Easter, Severe Storm, Severe Winter Storm,	16				See Action Worksheet (H-24 – LOI 1878 - 031914)				



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
			Earthquake								
H-25 (Sandy HMGP LOI #1879)	Natural Gas Generator Back-Up Power at Well 14, Cuba Hill Rd. Water Supply, Storage, Booster Pump Station and Treatment Facility. Greenlawn Water District.	Existing Infrastructure	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake	16				See Action Worksheet (H-25 – LOI 1879 - 031914)			
H-26 (Sandy HMGP LOI #30)	Hospital Facility Hardening.	Existing	All Hazards	2,16				See Action Worksheet (H-26 – LOI 30 – 031914)			
H-27 (Sandy HMGP LOI #120)	Administration Building Fuel Station.	Existing	All Hazards	16				See Action Worksheet (H-27 – LOI 120 – 032614)			
H-28 (Sandy HMGP LOI #1557)	Emergency Generator for Plant 9.	Future	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake	2,3,15,16				See Action Worksheet (H-28 – LOI 1557 – 032614)			
H-29 (Sandy HMGP LOI #2143)	Backup Power Generator Plan.	Future Structure		2,7,12,14				See Action Worksheet (H-29 – LOI 2143 – 032614)			
H-30 (former H-1)	Reinforce all vulnerable areas (windows, doors, atrium) at the Flanagan Senior Center, to wind (thru Laminate, Storm shutters Dade City glass) to secure the building from damage and return its use as a shelter for families of town response personnel/special needs.										
	See above	Existing	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm	2, 7, 15, 16	Dept. of Human Services		\$196,383 Approximate Medium	Federal Hazard Mitigation Grant Funds Federal Disaster #1692 Mitigation Funds	Short Term	High	SIP
H-31	Assess and prioritize and develop an implementation plan to protect major feeder route for Lloyd Harbor during a storm including Bulkhead Shore Road, Cold Spring Harbor. Implement										





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	
(former H-15)	priorities as funding becomes available.											
	See above	Existing	Hurricane, Nor' Easter, Severe Storm, Severe Winter Storm	2, 3, 7, 16	Highway Department		\$1.5 Million High	TBD	Long term, DOF	High	SIP	
H-32 (NEW)	Bulkhead replacement planned for the Town Dock in Halesite. The sheeting failed as a result of storm surge causing soil backfill to go into the water. The purpose of this project was to protect the parking lot from high wave action.											
	See above	Existing	Hurricane, Nor' Easter, Severe Storm, Severe Winter Storm	2,16				TBD	DOF	Medium	SIP	
H-33 (former H-2)	Update the Town of Huntington Website and GIS to reflect potential hazards to expand Public Information / Education (print, web and electronic media).											
	See above	NA	All Hazards	1, 7	IT & Planning and Environment GIS Division		Low	General Fund through existing programs	Short Term	Low	LPR	
H-34 (former H-11)	Augment existing programs by adopting and actively participating in and implementing the Countywide Debris Management Plan with the target to achieve containment of Asian Beetle, and improved post-disaster debris management. Identification and removal of trees which pose a significant threat to public and private infrastructure.											
	See above	NA	Hurricane, Nor' Easter, Severe Storm, Severe Winter Storm	1, 3, 4	Highway Department - Planning Department		Est. \$600,000 Medium	TBD	Long Term	High	NRP	
H-35 (former H-16)	<p>Assess and prioritize non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, including those that have been identified as repetitive loss, such as acquisition/relocation, or elevation depending on feasibility. The parameters for feasibility for this initiative would be: funding, benefits versus costs and willing participation of property owners. Implement as funding becomes available.</p> <p>The following parts of the Town are noted as particularly flood vulnerable, and will be one of the focuses of this effort:</p> <ul style="list-style-type: none"> • Makinaw Beach Road (3 structures currently being mitigated) • Knollwood Area (lowest residential part of Town) • Limited areas of repetitive flood damage, primarily single pre-FIRM unimproved properties, including three (3) Substantially Damaged properties. 											



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
	See above.	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	2, 7, 13	Huntington Town Council		High	General Fund, FEMA Hazard Mitigation Grant Funding	Long term, DOF	Low	LPR, NRP
H-36 (former H-17, H-18)	Support and participate in county led initiatives (see Section 9.1) 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) 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.	Both	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	Low	All types
H-37 (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				TBD	DOF	High	LPR, SIP, EAP
H-38 (NEW)	The Town will assess and prioritize generator needs for Town Hall to ensure continuity of operations during an emergency and implement as funding becomes available										
	See above	Existing	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake	2,3,15,16				TBD	DOF	High	LPR, EAP, SIP

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 9.19-11. 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 Objectives	Total	High / Medium / Low
H-1 (Sandy HMGP LOI #226)	Raising Elevation of Sanitary Motors at 3 Marinas	0	1	1	1	1	1	1	1	0	1	0	1	1	1	11	Medium
H-2 (Sandy HMGP LOI #232)	Installation of additional pilings at Soundview to support floats.	0	1	1	1	1	1	1	1	0	1	0	1	1	0	10	Medium
H-3 (Sandy HMGP LOI #236)	Adding Hurricane Slats to protect Doors at the Beach Pavilions.	0	1	1	1	1	1	1	1	0	1	0	1	1	0	10	Medium
H-4 (Sandy HMGP LOI #245)	Raise Elevation of Utilities at Harbormaster's Office.	0	1	1	1	1	1	1	1	0	1	0	1	1	0	10	Medium
H-5 (Sandy HMGP LOI #248)	Adding Hurricane Slats at Crab Meadow Restaurant and Arches.	0	1	1	1	1	1	1	1	0	1	0	1	1	0	10	Medium
H-6 (Sandy HMGP LOI #252)	Re-building the FLUPSY Facility at a Higher Elevation.	0	1	1	1	1	1	1	1	0	1	0	1	1	1	11	Medium
H-7 (Sandy HMGP LOI #477)	Re-building the FLUPSY facility at a higher elevation.	1	1	0	1	1	0	1	0	0	1	1	1	1	1	10	High
H-8 (Sandy HMGP LOI #478)	Hurricane Slats at Crab Meadow Restaurant and Arches.	0	1	0	1	0	1	1	1	0	1	1	1	0	1	9	High
H-9 (Sandy HMGP LOI #483)	Elevation of Utilities at the Town Harbor Master's Office.	1	1	0	1	1	0	1	0	0	1	1	1	1	1	10	High
H-10 (Sandy HMGP LOI #485)	Hurricane Slats to protect the Beach pavilions.	0	1	0	1	0	1	1	1	0	1	1	1	0	1	9	High
H-11 (Sandy HMGP LOI #486)	Installation of additional pilings at the Soundview Boat Ramp.	0	1	0	1	0	1	1	1	0	1	1	1	0	1	9	High
H-12 (Sandy HMGP LOI #488)	Raising the Elevation of Sanitary Motors at 3 Marinas.	1	1	0	1	1	0	1	0	0	1	1	1	1	1	10	High
H-13 (Sandy HMGP LOI #1172)	GIS Integrated Emergency Operations Dashboard for Resource Management During EOC Operations. Operations Dashboard for ArcGIS	1	0	0	1	1	1	0	0	1	0	1	1	0	1	8	Medium





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 Objectives	Total	High / Medium / Low
H-14 (Sandy HMGP LOI #1181)	Training and Deployment of Trimble - Juno GPS Devices, for Emergency Inspection Teams. □Juno GPS Handhelds for Emergency Management	1	0	0	1	1	1	0	0	1	0	1	1	0	1	8	Medium
H-15 (Sandy HMGP LOI #1195)	3D Laser Scanning System. 3-D Image Scanner	1	0	0	1	1	1	0	0	1	0	1	1	0	1	8	Medium
H-16 (Sandy HMGP LOI #1738)	Install a fixed electric generator at east Northport Highway facility	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
H-17 (Sandy HMGP LOI #1745)	Install a force main at Broadway Huntington Station and Folsom Avenue																
H-18 (Sandy HMGP LOI #1880)	Install a fixed electric generator at East Northport highway facility.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
H-19 (Sandy HMGP LOI #1884)	Generator for the Huntington Town Hall.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
H-20 (Sandy HMGP LOI #1885)	Generator for the Dix Hills Ice Rink.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
H-21 (Sandy HMGP LOI #1892)	Install a Force Main at Broadway/Folsom Ave Huntington Station	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High
H-22 (Sandy HMGP LOI #473)	Supervisory Control and Data Acquisition (SCADA) system.	1	0	0	1	1	1	0	0	1	0	1	1	0	1	8	Medium
H-23 (Sandy HMGP LOI #1876)	Natural Gas Generator Back-Up Power at Well 17, Buttercup La. Water Supply and Treatment Facility . Greenlawn Water District.	1	1	1	1	1	1	1	1	0	1	1	1	1	1	13	High
H-24 (Sandy HMGP LOI #1878)	Natural Gas Generator Back-Up Power at Well 8, Burr Rd. Water Supply and Treatment Facility. Greenlawn Water District.	1	1	1	1	1	1	1	1	0	1	1	1	1	1	13	High





Section 9.19: Town of Huntington

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 Objectives	Total	High / Medium / Low
H-25 (Sandy HMGP LOI #1879)	Natural Gas Generator Back-Up Power at Well 14, Cuba Hill Rd. Water Supply, Storage, Booster Pump Station and Treatment Facility. Greenlawn Water District.	1	1	1	1	1	1	1	1	0	1	1	1	1	1	13	High
H-26 (Sandy HMGP LOI #30)	Hospital Facility Hardening.	1	1	1	1	1	1	1	1	0	1	1	0	1	1	12	High
H-27 (Sandy HMGP LOI #120)	Administration Building Fuel Station.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
H-28 (Sandy HMGP LOI #1557)	Emergency Generator for Plant 9.	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
H-29 (Sandy HMGP LOI #2143)	Backup Power Generator Plan.	1	1	1	0	1	1	1	1	0	0	1	1	0	1	10	High
H-30 (former H-1)	Reinforce all vulnerable areas (windows, doors, atrium) at the Flanagan Senior Center, to wind (thru Laminated, Storm shutters Dade City glass) to secure the building from damage and return its use as a shelter for families of town response personnel/special needs.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
H-31 (former H-15)	Assess and prioritize and develop an implementation plan to protect major feeder route for Lloyd Harbor during a storm including Bulkhead Shore Road, Cold Spring Harbor. Implement priorities as funding becomes available.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Low
H-32 (NEW)	Bulkhead replacement planned for the Town Dock in Halesite. The sheeting failed as a result of storm surge causing soil backfill to go into	0	1	0	1	0	1	1	1	0	1	1	1	0	1	9	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 Objectives	Total	High / Medium / Low
	the water. The purpose of this project was to protect the parking lot from high wave action.																
H-33 (former H-2)	Update the Town of Huntington Website and GIS to reflect potential hazards to expand Public Information / Education (print, web and electronic media).	-	-	-	-	-	-	--	-	-	-	-	-	-	--	-	High
H-34 (former H-11)	Augment existing programs by adopting and actively participating in and implementing the Countywide Debris Management Plan with the target to achieve containment of Asian Beetle, and improved post-disaster debris management. Identification and removal of trees which pose a significant threat to public and private infrastructure.	-	-	-	-	-	-	--	-	-	-	-	-	-	--	-	Low
H-35 (former H-16)	Assess and prioritize non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, including those that have been identified as repetitive loss, such as acquisition/relocation, or elevation depending on feasibility. The parameters for feasibility for this initiative would be: funding, benefits versus costs and willing participation of property owners. Implement as funding becomes available.	-	-	-	-	-	-	--	-	-	-	-	-	-	--	-	Medium
H-36 (former H-17, H-18)	Support and participate in county led initiatives (see Section 9.1) intended to build	-	-	-	-	-	-	--	-	-	-	-	-	-	--	-	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 Objectives	Total	High / Medium / Low
	local and regional mitigation and risk-reduction capabilities (see Section 9.1)																
H-37 (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.	1	1	0	1	0	1	1	1	0	1	1	1	1	1	11	High
H-38 (NEW)	The Town will assess and prioritize generator needs for Town Hall to ensure continuity of operations during an emergency and implement as funding becomes available	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High

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

- = Prioritization remained the same as the 2008 HMP.



9.19.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.19.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Huntington 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 Town of Huntington has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.19.9 Additional Comments

None at this time.



Figure 9.19-1. Town of Huntington Hazard Area Extent and Location Map 1

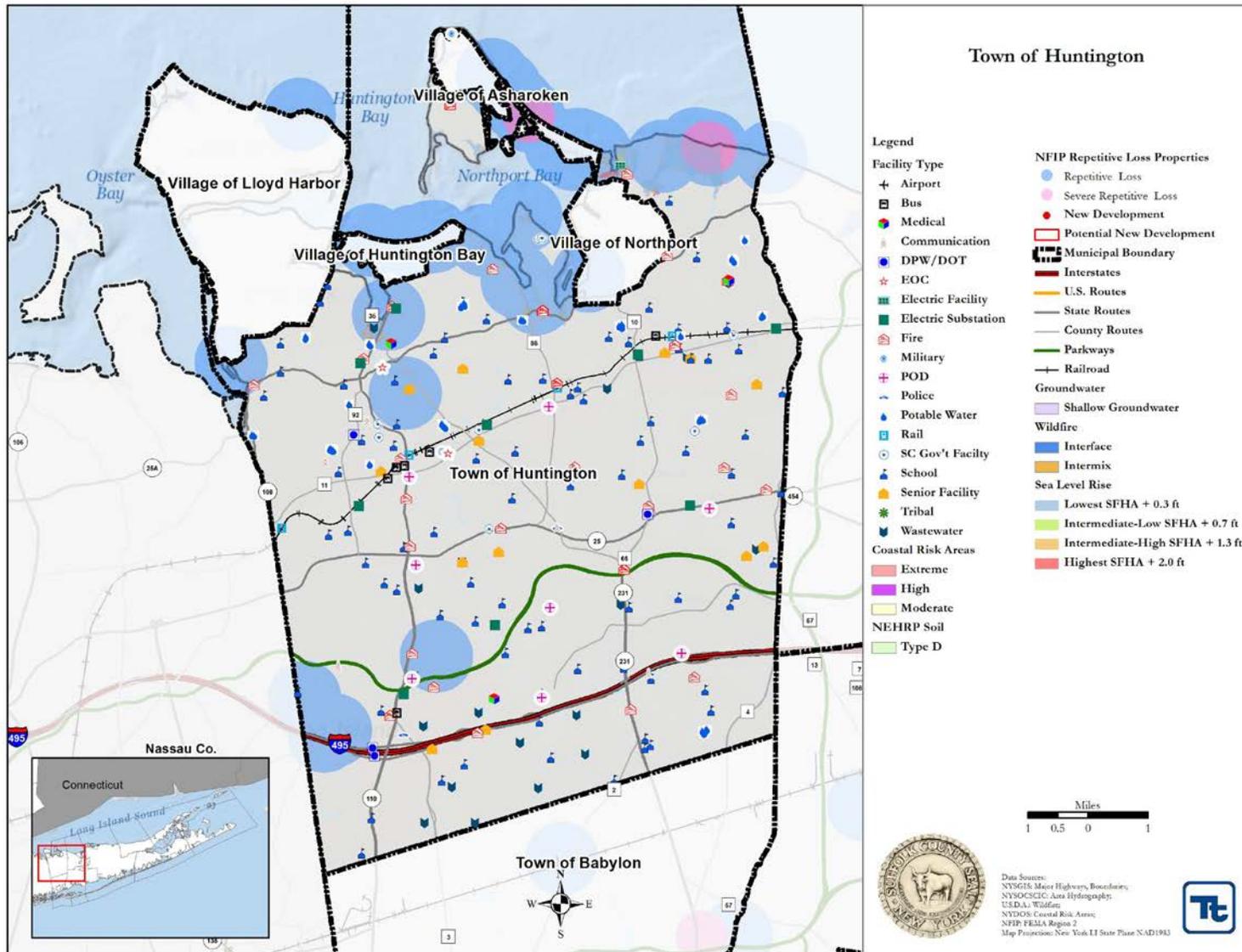
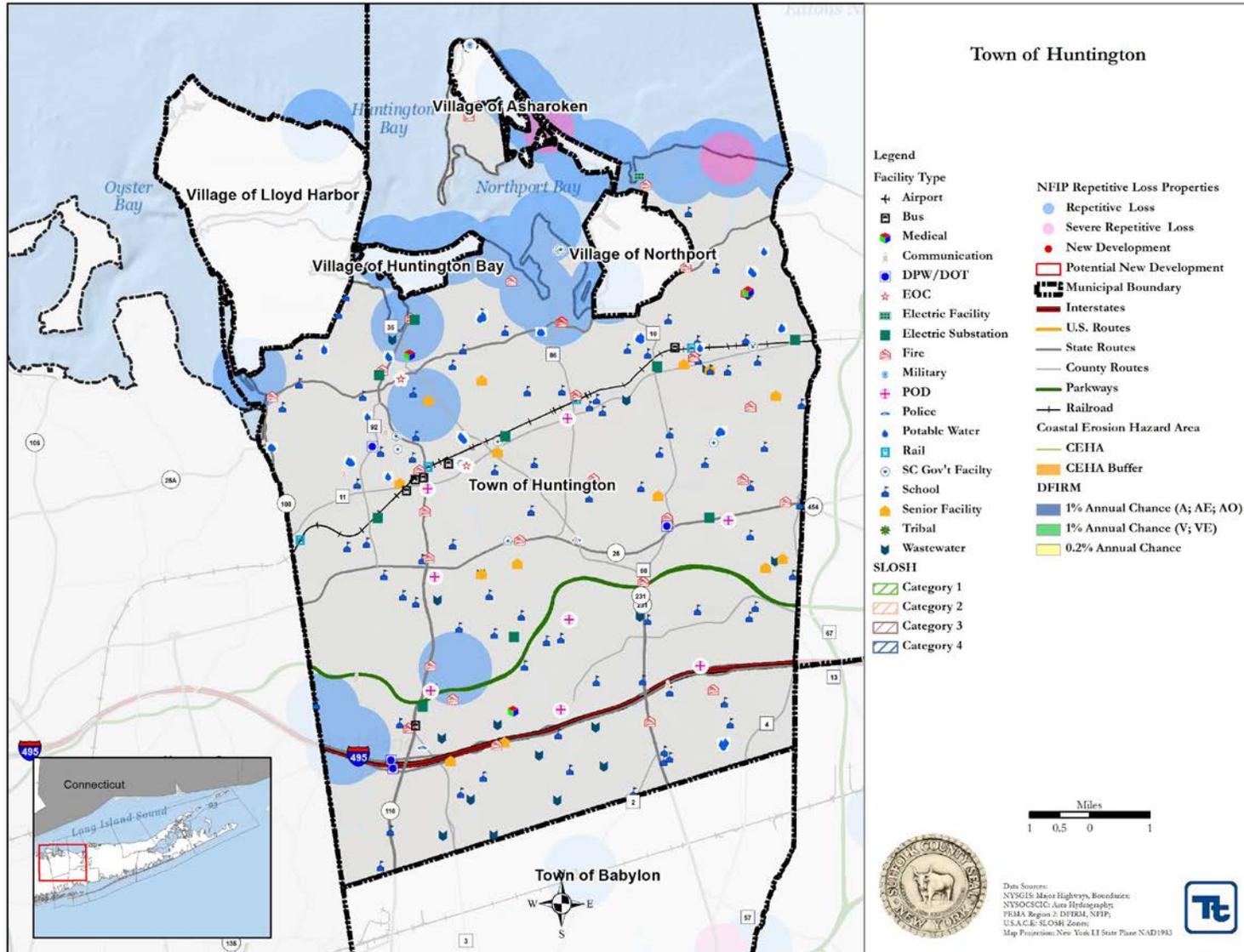




Figure 9.19-2. Town of Huntington Hazard Area Extent and Location Map 2





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: Town of Huntington

Number: Sandy HMGP LOI #: 226

Mitigation Action/Initiative: Raising Elevation of Sanitary Motors at 3 Marinas

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storms
Specific problem being mitigated:	The Town has three marinas, and each has a required sanitary motor and pump for vessel pump-out. Hurricane Sandy and Irene caused the motors to become submerged resulting in replacement motors. These systems need to be raised in elevation to mitigate against future damage.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Raising elevation of sanitary motors – Will mitigate future damage(s).
	2. Elimination of pump-out facilities – No service provided to public..
	3. No action – Recurrence of damage(s).
Action/Project Intended for Implementation	
Description of Selected Action/Project	Motor and pump assemblies (and their associated piping) need to be installed on a concrete pad (3 ft in height) to move them above flood stage. All three motors required replacment at \$10 k each after Sandy for a total of \$30,000 damages.
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#2, #16
Applies to existing structures/infrastructure, future, or not applicable	Applies to existing structures/infrastructure
Benefits (losses avoided)	Recent Damages: \$30,000
Estimated Cost	\$12,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	Town Board Resolution
Potential Funding Sources	Grant funding w/ local government cost sharing
Timeline for Completion	Short (i.e., 1 – 5 years)
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 #: 226

Mitigation Action/Initiative: Raising Elevation of Sanitary Motors at 3 Marinas

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	Structures/facilities located directly adjacent to a waterbody designated by USEPA as affected by priority pollutants; TMDL's for those pollutants are in effect.
Total	11	
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: Town of Huntington

Number: Sandy HMGP LOI #: 232

Mitigation Action/Initiative: Installation of additional pilings at Soundview to support floats

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storms
Specific problem being mitigated:	The Town's Soundview Boat ramp facility suffered major damage during Sandy due to flooding and the impacts of waves/wind. There are 2 boat ramps floats (each float is 80 ft long) that are only secured with an anchoring on shore, and a single piling at the end of each float.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Installation of additional pilings – will mitigate future damage(s).
	2. Elimination of floating docks – no service provided to public..
	3. No action – recurrence of damage(s).
Action/Project Intended for Implementation	
Description of Selected Action/Project	Two additional pilings need to be installed to brace the mid-section of the float. This will secure the floats in the event of a future storm.
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#2, #16
Applies to existing structures/infrastructure, future, or not applicable	Applies to existing structures/infrastructure
Benefits (losses avoided)	Recent Damages: \$65,000
Estimated Cost	\$20,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/Town Emergency Manager
Local Planning Mechanism	Town Board Resolution
Potential Funding Sources	Grant funding w/ local government cost sharing
Timeline for Completion	Short (i.e., 1 – 5 years)
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 #: 232

Mitigation Action/Initiative: Installation of additional pilings at Soundview to support floats

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	10	
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: Town of Huntington

Number: Sandy HMGP LOI #: 236

Mitigation Action/Initiative: Adding Hurricane Slats to protect Doors at the Beach Pavilions

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storms
Specific problem being mitigated:	The Town has 8 public beaches with brick pavilions for lifeguards and summer staff. Each pavilion has between 1 and 3 doors that face the sea, and during hurricanes Irene and Sandy, the waves pushed many of the doors open (even broke steel frames from the brickwork).. The waves then ruined interior contents, damaged utilities, etc.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Install hurricane slats – will mitigate future damage(s).
	2. No action – recurrence of damage(s).
	3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Steel "L" channel should be bolted outside the door areas were wooden slats can be installed and fastened prior to a storm. These slats would act as a strong "wave barrier."
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#2, #16
Applies to existing structures/infrastructure, future, or not applicable	Applies to existing structures/infrastructure
Benefits (losses avoided)	Recent Damages: \$75,000
Estimated Cost	\$66,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	Town Board Resolution
Potential Funding Sources	Grant funding w/ local government cost sharing
Timeline for Completion	Short (i.e., 1 – 5 years)
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 #: 236

Mitigation Action/Initiative: Adding Hurricane Slats to protect Doors at the Beach Pavilions

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	10	
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: Town of Huntington

Number: Sandy HMGP LOI #: 245

Mitigation Action/Initiative: Raise Elevation of Utilities at Harbormaster's Office

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storms
Specific problem being mitigated:	The Town's Harbormaster's Office in Halesite, NY has an exterior "at grade" electrical transformer and a.c. unit. Inside the the building, also at grade level, is a gas furnace. These utilities were underwater due to the tidal surge, and should be raised since the Harbomaster's Office is the central HQ for the Bay Constables (Town Marine Enforcement Officers).
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Raise elevation of utilities – will mitigate future damage(s).
	2. Relocation of harbormaster's Office – not cost-effective.
	3. No action – recurrence of damage(s).
Action/Project Intended for Implementation	
Description of Selected Action/Project	Utilities need to be raised on concrete pads so they are above the 100 year flood plain. Long Island Power Authority was able to replace their equipment as it was outside the building. However, if we want to raise or relocate the equipment it is the Town's responsibility. The surge was just inches away from destroying the furnace controls. In addition the electrical connections need to be cleaned and the a.c. unit serviced.
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#2, #16
Applies to existing structures/infrastructure, future, or not applicable	Applies to existing structures/infrastructure
Benefits (losses avoided)	Recent Damages: \$1,000
Estimated Cost	\$10,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	Town Board Resolution
Potential Funding Sources	Grant funding w/ local government cost sharing
Timeline for Completion	Short (i.e., 1 – 5 years)





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 #: 245

Mitigation Action/Initiative: Raise Elevation of Utilities at Harbormaster's Office

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	10	
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: Town of Huntington
Number: Sandy HMGP LOI #: 248
Mitigation Action/Initiative: Adding Hurricane Slats at Crab Meadow Restaurant and Arches

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storms
Specific problem being mitigated:	The Town's Crab Meadow pavilion is a unique facility containing a restaurant and inner courtyard. During Sandy and Irene, the tidal surge broke windows in the restaurant, and pushed sand through the archways and into the courtyard (containing a fountain and plantings).
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Install hurricane slats – will mitigate future damage(s). 2. No action – recurrence of damage(s). 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Steel "L" channel should be bolted outside the archway areas where wooden slats would act as a strong "wave barrier" to prevent sand from entering the courtyard. The restaurant windows facing the water, were impact by sorm surge, waves were hit the windows at 3+ ft. These windows should have the same "L" channel so that protective slats can installed.
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#2, #16
Applies to existing structures/infrastructure, future, or not applicable	Applies to existing structures/infrastructure
Benefits (losses avoided)	Recent Damages: \$25,000
Estimated Cost	\$20,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supevisor/ Town Emergency Manager
Local Planning Mechanism	Town Board Resolution
Potential Funding Sources	Grant funding w/ local government cost sharing
Timeline for Completion	Short (i.e., 1 – 5 years)
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 #: 248

Mitigation Action/Initiative: Adding Hurricane Slats at Crab Meadow Restaurant and Arches

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	10	
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: Town of Huntington
Number: Sandy HMGP LOI #: 252
Mitigation Action/Initiative: Re-building the FLUPSY Facility at a Hgher Elevation

Assessing the Risk	
Hazard(s) addressed:	Hurricanes, Nor'Easters, Severe Storms
Specific problem being mitigated:	The Town's FLUPSY building was inundated during Sandy with damages to the sheetrock walls, electrical systems, etc. We have an engineering report that reccomends re-building the stucture at a higher elevation.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Rebuild FLUPSY Facility building at a higher elevation – will mitigate future damage(s).
	2. Terminate FLUPSY Program – no services provided to public, detrimental to existing commercial shellfishing in Huntington Bay Complex.
	3. No action – recurrence of damage(s).
Action/Project Intended for Implementation	
Description of Selected Action/Project	The building is owned by the Town, and is used as an educational outreach center for local students with a program administered by the Cornell Cooperative Extension. Moving it to a higher elevation will prevent future damage from tidal surges. The building was determined to be a total loss by our Engineer.
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#2, #16
Applies to existing structures/infrastructure, future, or not applicable	Applies to existing structures/infrastructure
Benefits (losses avoided)	Recent Damages: \$180,000
Estimated Cost	\$180,000
Priority*	Medium
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	Town Board Resolution
Potential Funding Sources	Grant funding w/ local government cost sharing
Timeline for Completion	Short (i.e., 1 – 5 years)
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 #: 252

Mitigation Action/Initiative: Re-building the FLUPSY Facility at a Higher Elevation

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	<ol style="list-style-type: none"> Structures/facilities located directly adjacent to a water body designated by USEPA as affected by priority pollutants; TMDL's for those pollutants are in effect. FLUPSY shellfish production is an important positive factor in restoring commercial shellfishing within the Huntington Bay Complex .
Total	11	
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: Town of Huntington

Number: Sandy HMGP LOI #: 477

Mitigation Action/Initiative: Re-building the FLUPSY facility at a higher elevation

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town's FLUPST building was inundated during Sandy with damages to walls, stucuture, electrical sytems stc. It has been determed to be a total loss by the Town engineer. We have an engineering report that reccomends a re-building of the structure at a higher elevation..
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 building is owned by the Town, and is used as an educatioanal outreach center for local students with a program administered by the Cornell Cooperative Extension. Moving it to a higher elevation will prevent future damage from tidal surges.
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$180,000
Estimated Cost	\$180,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 477

Mitigation Action/Initiative: Re-building the FLUPSY facility at a higher elevation

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)		





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: Town of Huntington

Number: Sandy HMGP LOI #: 478

Mitigation Action/Initiative: Adding Hurricane Slats at Crab Meadow Restaurant and Arches

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town's Crab meadow Pavilion is a unique facility containing a restaurant and inner courtyard. During Sandy and Irene, the tidal surge broke windows in the restaurant and pushed sand through the archways and into the courtyard containing a fountain and plantings
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	Steel "L" channels should be bolted outside the archway areas where wooden slats would act as a strong "wave barrier" to prevent sand from entering the courtyard. The restaurant windows facing the water, were impacted by storm surge, waves were hitting the windows at 3+ feet. These windows should have the same "L" channel so that the protective wooden slats can be installed.
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$25,000
Estimated Cost	\$20,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 478

Mitigation Action/Initiative: Adding Hurricane Slats at Crab Meadow Restaurant and Arches

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 483
Mitigation Action/Initiative: Raise the Elevation of Utilities at the Town Harbor Master's Office

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town's Harbor Master's Office is located in Halesite, NY has an exterior "at grade" electrical transformer and a.c. unit . Inside the building, also at grade level is a gas furnace. These utilities were underwater due to tidal surge and should be raised since the Office is the central HQ for the Bay Constables (Town Marine Enforcement Officers)
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	Utilities need to be raised on concrete pads so they are above the 100 year flood plain. Long Island Power Authrity was able to replace the equipment as it was outside the building . However, if we want to raise or relcate the equipmetn it is the Town's responsibility and the cost falls to the Town. The surge wasjust inches away fro destroying the furnance controls. In addition the electrical connection need to be cleaned and the a.c. system serviced
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$1,000
Estimated Cost	\$10,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Asistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	





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 #: 483

Mitigation Action/Initiative: Raise the Elevation of Utilities at the Town Harbor Master's Office

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 485
Mitigation Action/Initiative: Adding Hurricane Slats to protect the Beach pavilions

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town has 8 public beaches with brick pavilions for lifeguards and summer staff. Each pavilion has between 1 and 3 doors that face the the sea. During Hurricanes Rene and Sandy, the waves pushed many of the doors open ans broke steel frames from brickwork. The waves then ruined the contents,damages utilities etc.
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	Steel "L " channels should be bolted outside the door area where the lats can be installed and fastened prior to a strom. These slats would act as a strong "wave barrier"
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$75,000
Estimated Cost	\$66,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 485

Mitigation Action/Initiative: Adding Hurricane Slats to protect the Beach pavilions

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 486
Mitigation Action/Initiative: Installation of additional pilings at the Soundview Boat Ramp

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town's Soundview Boat Ramp facility suffered major damage during Sandy due to flooding and the impacts of waves and wind. There are two boat ramp floats (each is 80' long) that are secured with an anchoring on shore and a single piling at the end of each float
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	Two additional pilings are needed to be installed to brace the mid-section of the floats. This will secure the floats in the event of a future storm
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$65,000
Estimated Cost	\$20,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Bett Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 486

Mitigation Action/Initiative: Installation of additional pilings at the Soundview Boat Ramp

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)		





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: Town of Huntington

Number: Sandy HMGP LOI #: 488

Mitigation Action/Initiative: Raising the Elevation of Sanitary Motors at 3 Marinas

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town has 3 marinas and each has a required sanitary motor and pump for vessel pump-out. Hurricane Sandy and Irene casued the motors to become sumerged resulting in repalcement motors. These systems need to be raised in elevation to mitigate against future damage.
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	Motor and pump assemblies (and their associated piping) need to be installed on a concrete pad (3ft inheight) to move them above the flood stage . All three motors required replacment at \$10 k each after Sandy for a total of \$30,000
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$30,000
Estimated Cost	\$30,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 488

Mitigation Action/Initiative: Raising the Elevation of Sanitary Motors at 3 Marinas

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)		





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: Town of Huntington

Number: Sandy HMGP LOI #: 1172

Mitigation Action/Initiative: GIS Integrated Emergency Operations Dashboard for Resource Management Durring EOC Operations.

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town of Huntington currently maintains an Emergency Operations Center. During an event the town has the capability of monitoring vehicles and equipment through use of its town-wide geographic information system, and various software and hardware sensory technologies. The town needs to unify these systems as part of a comprehensive management platform.
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	<p>Operations Dashboard for ArcGIS</p> <ul style="list-style-type: none"> • Monitor and Respond to Activities and Events - Operations Dashboard for ArcGIS provides a common operational picture for monitoring, tracking, and reporting an event or system of events across a group of people within your organization. • Focus on aspects of the event or activity that matter most to you. Monitor services, deliveries, people, and more, anywhere in world. Operations Dashboard app leverages responsive maps and dynamic data which update automatically as underlying information changes. • Create and Share Operational Views - Create and share operational views that includes interactive maps, lists charts, gauges, and other performance indicators based on live geographic data defined in a web map or web service. • Build operational views for use on either multiple monitors or single-display devices, such as Windows desktops and Intel-based Windows tablets. • Customize for Your Needs - ArcGIS Online subscribers can install the Operations Dashboard via a click-once deployment without the need for administrator rights. Powered by the ArcGIS Runtime SDK for WPF, the app can be extended and customized with new widgets, map tools, and feature actions.
Mitigation Action/Project Type	
Objectives Met	





Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$5,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Asstant to the Supervisor, Emergency Coordination
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 1172
Mitigation Action/Initiative: GIS Integrated Emergency Operations Dashboard for Resource Management Durring EOC Operations.

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)		





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: Town of Huntington

Number: Sandy HMGP LOI #: 1181

Mitigation Action/Initiative: Training and Deployment of Trimble - Juno GPS Devices, for Emergency Inspection Teams

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	In the aftermath of Hurricane Sandy, many municipalities relied on paper maps and building department worksheets to inspect damage and identify hazards. This process was both time consuming and burdensome for maintaining records accurately. The Town of Huntington responded to this disaster by complimenting a field inspection effort, which was sported through the integration of town-wide geographic information systems data and hand held GPS and portable computers. Through this ad-hoc effort, field inspection staff were able to deploy quickly, assess faster, and issue the appropriate work orders thanks to timely and accurate information. The Town of Huntington was only limited in its ability to deploy trained personnel and equipment. The Town plans to increase its inventory of GPS handheld devices, and trained staff, so that the Town can facilitate recovery efforts faster, and if needed, provide mutual assistance to other communities within its jurisdiction, including four (4) independent villages.
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	<p>Juno GPS Handhelds for Emergency Management Rapid assessment is key to minimizing damage and losses in emergency situations. Juno series handhelds can speed damage assessment by replacing inefficient paper-based systems. Easy-to-use reports can be completed quickly by emergency response teams and transferred to central office or emergency headquarters for immediate access, analysis, an use of data from the emergency site.</p> <p>Juno series handhelds are designed to keep emergency workforces mobile with the convenience of a single, pocketable device that avoids the need to carry a camera, a GPS data collector, a PDA, and a cellular phone.</p> <p>Because the Juno series handhelds may be used by volunteers with varying levels of technical knowledge and experience, it is also important that the devices are easy to use—and they are! Information collected could include: severity of the damage to dwellings, addresses, a description of the location, and more. Once complete, this information can be used to determine, for example, services needed such as food, blankets, medical supplies, heating fuel, drinking water, shelter, etc.</p>





	<p>Real-time GPS mapping can aid efficient emergency management allowing data to be exchanged with rescue coordination centers using the Juno series handhelds' optional built-in 3.5G cellular modem.</p> <p>In February 2009, Victoria Police used Juno SC handhelds to speed assessment of damage caused by devastating bush fires in Melbourne, Australia to efficiently and quickly complete electronic damage assessment forms. Using an Internet map viewer, both field and office workers watched parcels change color as a property's search was completed and the field emergency worker synchronized new data with the GIS server via the Juno series handheld's internal cellular modem.</p> <p>Although the fire caused widespread devastation and tragedy, the technology provided a swift and efficient damage assessment solution and the project was estimated to have been completed in one third the time of a manual, paper-based system.</p> <p>The Town of Huntington currently deploys Recon GPS hand held devise to Town Field Staff. By adding a compliment of lower cost Juno GPS units, the town can deploy GPS field assessment capabilities to Fire Chiefs, utility crews and supporting agencies, to increase the efficiency within their own organizational activities, while providing real-time situational awareness to staff at the Town Emergency Operations Center.</p> <p>This system could have prevented prolonged power outages during Hurricane Sandy, which were deliberately caused by a lack of understanding of ground conditions by utilities. Because these utilities relied on "Paper Maps", it was estimated that a two day lag time existed between field assessment, back office processing and emergency crew dispatch.</p>
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$10,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Aidan Mallamo, Geographic Information Systems Supervisor
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 1181
Mitigation Action/Initiative: Training and Deployment of Trimble - Juno GPS Devices, for
 Emergency Inspection Teams

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 1195
Mitigation Action/Initiative: 3D Laser Scanning System

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	In the aftermath of Hurricane Sandy, the Town of Huntington was fortunate in that it had surveys of beaches and facility structural conditions prior to the storm event. This information was used for post storm analysis to determine safety condition and damage assessment. Traditional surveys can be time consuming, and may not be able to be performed quickly enough to be effective during future recovery efforts. Furthermore, many historic and culturally significant structures have limited to no structural documentation. 3D Laser Scanning technology can perform data collection of structural conditions of facilities in a fraction of time. Engineers use these systems to assess structural conditions of buildings, bridges and roads. The Town of Huntington will incorporate the use of these technologies into the greater town-wide mitigation efforts.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Will provide Structural damage assessments in low lying areas. 2. Asharoken Avenue damage assessment. 3. Will be used for shoreline modeling.
Action/Project Intended for Implementation	
Description of Selected Action/Project	<p>3-D Image Scanner Measure millions of points at the push of a button. Scanning puts you in control of your digitally realistic 3-Dimensional data. Capture Reality – measure everything. This device collects point data for establishing beach contours, structural conditions and maps the point data associated with these surveys. An image can then be added to this 3-Dimensional data for simulation. Subject can be scanned prior to a storm event to assess current condition. These subjects can they be rescanned to assess damage. This technology is part of best practices exercised by Federal Agencies. In fact, in the aftermath of September 11, all major monuments were similarly “scanned” by FEMA. These include the Washington Monument, Statue of Liberty and Mount Rushmore. After the 2011 earthquake, the Washington Monument scan data was reanalyzed to quickly assess condition. This devise will allow the Town to assess ALL of its facilities within 36 hours after a disaster event. With this increased assessment speed, the town can enhance documentation of these sites for multi-agency dissemination.</p>
Mitigation Action/Project Type	Structure and Infrastructure Project (SIP)
Objectives Met	#15. Mitigation for Projects in hazard prone areas.





Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$40,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Aidan Mallamo, Geographic Information Systems Supervisor
Local Planning Mechanism	The Town Emergency Management Plan Adopted Guidelines.
Potential Funding Sources	Federal / State Hazard Mitigation grants.
Timeline for Completion	3 -6 Months
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 #: 1195

Mitigation Action/Initiative: 3D Laser Scanning System

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	This device is for damage assessment to structures effected by a storm.
Property Protection	1	This can help establish hazard which may have not been previously know.
Cost-Effectiveness	1	Provides significantly reduced survey costs and deployment time.
Technical	1	This has been deployed among communities along the east coast.
Political	1	The Town Board supports this acquisition.
Legal	1	The State and Town have the legal authority to implement.
Fiscal	0	The project can be partially funded by the Town.
Environmental	1	This devise will help establish if environmental regulations are complied with
Social	0	N/A
Administrative	1	The Town GIS staff will manage this project.
Multi-Hazard	1	This project will provide the best possible mitigation assessment.
Timeline	1	This project can be completed within 3 months.
Agency Champion	1	Yes - The Town Planning, Engineering departments.
Other Community	1	This will be used as part of the Town what capital infrastructure program.





Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Objectives		
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: Town of Huntington

Number: Sandy HMGP LOI #: 1738

Mitigation Action/Initiative: Install a fixed electric generator at east Northport Highway facility

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	The Town of Huntington Highway Office maintains three operational facilities from which storm response is staged. These facilities also act as sheltering locations for the employees during storm events. Two of the facilities presently have fixed generation capabilities which are sufficient to fully operate the facility for an indefinite period of time
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	Reliable generation would also enhance the productivity of the East Northport facility immediately following an event which results in power outages by enabling use of the phone, radio, and computer systems which are used to aggregate information and direct response activities. The East Northport facility has 16 employees and 20 trucks and backhoes assigned to it. Reliable electrical generation would enhance the communication, sheltering and response capabilities that residents within 15% of the Town of Huntington rely on for emergency debris and protective measures.
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$47,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	
Potential Funding Sources	





Timeline for Completion	
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 #: 1738

Mitigation Action/Initiative: Install a fixed electric generator at east Northport Highway facility

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 1745
Mitigation Action/Initiative: Install a free main at roadway Huntington Station and Folsom Ave

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	Broadway in Huntington Sta, which is a main feeder for the Huntington train station frequently floods at the intersection of Folsome Ave. This chronic condition causing closure of the roadway and requiring portable pumps to be set up any times a year.
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	This location is the most frequently flood site within the Town. Because of the high level of development, proximity of train tracks and abundance of pre-existing underground utility installations, installation of leaching and holding capacity for storm water has been deemed unworkable. Thousands of vehicles transit this roadway each day including, school buses, police, fire, and ambulance equipment. The elevation at the intersection is 226 feet above sea level and the accessible location at which a gravity feed system would convey the water properly is at a level of 246 feet above sea level and 750 feet to the north along Folsom Ave. Because of the distance and rise the project would require two electric pumps situated in below ground chambers
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$210,000
Priority*	
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/Town Emergency Manager
Local Planning Mechanism	





Potential Funding Sources	
Timeline for Completion	
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 #: 1745

Mitigation Action/Initiative: Install a free main at Broadway Huntington Station and Folsom Ave

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 1880
Mitigation Action/Initiative: Install a fixed electric generator at East Northport highway Facility

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricane, Nor'Easter, Winter Storms
Specific problem being mitigated:	The Town Highway department maintains 3 operational facilities from which storm response is staged. These facilities also act as a sheltering location for employees during the storm events. Two of the facilities presently have fixed generator capabilities which are sufficient to fully operate the facility for an indefinite period of time.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Install solar electric generation- more expensive 2. Configure multiple portable generators- less expensive 3. Do nothing- continued delays in emergency response
Action/Project Intended for Implementation	
Description of Selected Action/Project	Reliable generation would also enhance the productivity of the east Northport facility immediately following an event which results in power outages by enabling use of the phone, radio, and computer systems which are used to aggregate information and direct response activities. The East Northport facility has 18 employees and 20 trucks and backhoes assigned to it. Reliable electrical generation would enhance the communication, sheltering and response capabilities that residents within the 15% of the Town rely on for emergency debris removal and protective measures.
Mitigation Action/Project Type	SIP
Objectives Met	13,14,15,16
Applies to existing structures/infrastructure, future, or not applicable	Improvement of existing infrastructure
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$47,000
Priority*	High
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	Town of Huntington highway Office (General Services)
Potential Funding Sources	Grant funding with local cost share





Timeline for Completion	1
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 #: 1880

Mitigation Action/Initiative: Install a fixed electric generator at East Northport highway Facility

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Local share met with force account contribution
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
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: Town of Huntington
Number: Sandy HMGP LOI #: 1884
Mitigation Action/Initiative: Generator for Town Hall

Assessing the Risk	
Hazard(s) addressed:	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake
Specific problem being mitigated:	The Town Hall is the seat of government for the Town of Huntington. The Town Hall's operation is necessary for providing services to the residents and for the continuity of government. Our residents also look to Town Hall for guidance and direction from our Supervisor throughout the course of events. Therefore, it is imperative that all systems, including but not limited to computer systems, telephones, financial systems, payroll, etc., are maintained. The overall functionality of the building is critical for the day-to-day running of government. Unfortunately, due to the antiquated electrical system on Long Island, more severe storms result in power outages. They may last for hours, days, or weeks. The town cannot be held prisoner by an outdated electrical system. In addition, the town must maintain records for the Federal government for reimbursement purposes, critical systems such as our computer systems can be adversely affected, causing the loss of valuable records such as property taxes, births, deaths, local laws, and enforcement issues, and more.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Tree trimming - remove tree branches that may fall onto power lines causing power outages. This is currently being done as existing maintenance, to protect feeder lines, but doesn't help with primary or secondary lines off town property. 2. Bury power lines. This option is not being pursued as it is too costly and prohibitive due to the long run and the town does not have legal authority to bury the lines. 3. Use special treatment from PSAG - meets with executive team and urge them to take steps necessary to prevent power failures at Town Hall. - This is not the best alternative because it relies on others to address the problem. The solution remains outside the control of the Town of Huntington. Though we do get priority, the system is complex and does not provide a direct connection to a sub-station. (another alternative could be to install a secondary electrical feed from an independent section of the local grid - this is typically technically infeasible and cost-prohibitive)
Action/Project Intended for Implementation	
Description of Selected Action/Project	Will eliminate the problem of no power permitting government to continue to function despite area power outages. The town government will be there for our residents for their concerns and to provide services and assistance. The town cannot close. Estimated cost for purchase and installation of the generator and the transfer switch is 1 Million dollars; Estimated losses \$500,000.00





Mitigation Action/Project Type	Structure and Infrastructure Project
Objectives Met	2,3,15,16
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Recent Damages: \$500,000
Estimated Cost	\$1,000,000
Priority*	High
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to Supervisor/Town Emergency Manager
Local Planning Mechanism	Municipal Budget- funds will be requested during the next budget cycle for the matching funds for a FEMA grant
Potential Funding Sources	FEMA HMPG, Town budget for local match
Timeline for Completion	8 month after funds are 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 #: 1884

Mitigation Action/Initiative: Generator for Town 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 Town Hall
Cost-Effectiveness	1	This project is considered highly cost effective
Technical	1	There are no technical issues associated with the 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 municipality has full legal authority to implement this project
Fiscal	0	The town can currently fund the cost match if a grant were awarded
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 Town has all administrative and technical resources necessary to implement this project
Multi-Hazard	1	This project provides protections against multiple hazards
Timeline	1	The project can be implemented within one year once funding is secured
Agency Champion	1	The Town Supervisor and the Emergency Manager are the leads for this critical project,
Other Community Objectives	1	The project supported the Town's commitment to provide uninterrupted critical services to their residents, particularly in times of natural disaster 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: Town of Huntington
Number: Sandy HMGP LOI #: 1885
Mitigation Action/Initiative: Generator for the Dix Hills Ice Rink

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	As part of the Town's Emergency Preparedness Plan and as mentioned Town's section of the mitigation plan it is recognized the the Dix Hill Ice Rink can serve as a morgue if a catastrophic event were to occur. The rink has two ice surfaces. The rink is located near major roadways .The rink is near the Nassau County line and borders the Towns of Oyster Bay, Smithtown. Babylon and Islip. The Town, county and island has experienced multiple power outages every year for the past 3 years. A power outage coupled with excessive casualties would make rink a viable location for this purpose. Funeral Homes, hospital, nursing homes all would be impasted in a long term power outage, especiall one couples with a gas shortge as with Sandy.
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 installation of a generator and a transfer switch at the Ice Rink would ensure that there will be a proper facility to manage and maintain those people lost in a catastrohic event with respect and dignity. The leaders of our funeral directors community would be able to assist the Town in the management of this facility and in turn provide peoper record keeping for the county state and federal government. The esitimated cost for the generator and the transfer switch is \$800,000.00
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$800,000
Priority*	
Plan for Implementation	





Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor / Town Emergency
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
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 #: 1885
Mitigation Action/Initiative: Generator for the Dix Hills Ice Rink

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)		





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: Town of Huntington
Number: Sandy HMGP LOI #: 1892
Mitigation Action/Initiative: Install a Force Main at Broadway/Folsom Ave Huntington Sta

Assessing the Risk	
Hazard(s) addressed:	Flooding, Hurricane, Tropical Storm, Severe Winter Storm
Specific problem being mitigated:	Broadway in Huntington Station is a main feeder for the Huntington train Station frequently floods at the intersection with Folsome Ave. This is a chronic condition causing closure of the roadway and requiring portable pumps to be set-up many times a year. This location is the most frequently flooded site within the Town. Thousands of vehicle transit this roadway each day including, school buses, police, fire, and ambulance equipment.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	1. Elevate roadway- more expensive
	2. Install retention leaching capacity- more expensive
	2. Do nothing- more expensive
Action/Project Intended for Implementation	
Description of Selected Action/Project	Install automatic electrical pumps to remove water from chronically flooded roadway, and transport water to recharge type draining structure.
Mitigation Action/Project Type	SIP
Objectives Met	2,13,15,16
Applies to existing structures/infrastructure, future, or not applicable	Improvement to existing infrastructure
Benefits (losses avoided)	Loss of function, road closures
Estimated Cost	\$175,700
Priority*	High
Plan for Implementation	
Responsible Organization	Town of Huntington: Betty Walsh, Special Assistant to the Supervisor/ Town Emergency Manager
Local Planning Mechanism	Town of Huntington Highway Office- in house
Potential Funding Sources	Granting funding with local cost share
Timeline for Completion	1
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 #: 1892

Mitigation Action/Initiative: Install a Force Main at Broadway/Folsom Ave Huntington Sta

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduces response time for emergency responders
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Local share within annual capital drainage budget
Environmental	1	
Social	1	
Administrative	1	The Town of Huntington presently maintains 6 similar installations
Multi-Hazard	1	
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
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: Greenlawn Water District
Number: Sandy HMGP LOI #: 473
Mitigation Action/Initiative: Supervisory Control and Data Acquisition (SCADA) system

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	Water supply systems have a vital role in public health protection. Having an ample supply of safe drinking water for consumptive use and fire protection is essential to health and property protection. During Superstorm Sandy the district lost telemetry control to its 13 active wells on 11 wellfields due to the extensive disruption of telephone landlines throughout the community and on the well fields, due to tree damage, disabling automatic control for the Water District supply well facilities. Local manual operation of the supply plants was required until automatic control could be restored. The loss of automatic control diminished the reliability of the water system and necessitated significant staff manpower diversion from other priority activities associated with normal operations and post-storm restoration of operations.
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 Water District proposes to upgrade its analog control system to a Supervisory Control and Data Acquisition (SCADA) system. The SCADA system will improve instrumentation and controls greatly increasing the reliability and operation of its well pumps. The SCADA system will provide real time data on critical operating parameters. Rapid control adjustments can be made to optimize pump operation with respect to changes in system demand conditions such as responding to fire flow demand conditions, and localized disruption of primary power. In addition the SCADA will allow the Water District to diversify control communications and improve reliability under emergency conditions with its other supply well facilities by employing both digital based cable internet and radio based telemetry. The mitigation measure incorporates small propane standby power generator sets and associated automatic transfer switching dedicated to two District elevated water tanks at District Tank Sites 1 (Alvord Court) and 2 (Jericho Turnpike) which must continue to signal tank water level elevations at these critical locations to the SCADA system.
Mitigation Action/Project Type	
Objectives Met	





Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$16,000
Estimated Cost	\$700,000
Priority*	
Plan for Implementation	
Responsible Organization	Greenlawn Water District: Robert Santoriello, Superintendent
Local Planning Mechanism	
Potential Funding Sources	HMGP; _____ for Local Match
Timeline for Completion	
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 #: 473

Mitigation Action/Initiative: Supervisory Control and Data Acquisition (SCADA) system

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)		





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: Greenlawn Water District
Number: Sandy HMGP LOI #: 1876
Mitigation Action/Initiative: Natural Gas Generator Back-Up Power at Well 17, Buttercup La. Water Supply and Treatment Facility

Assessing the Risk	
Hazard(s) addressed:	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake
Specific problem being mitigated:	Water supply systems have a vital role in public health protection. Having an ample supply of safe drinking water for consumptive use and fire protection is essential to health and property protection. Deep well pumps currently utilized by the Water District to distribute water rely on a significant amount of electric power. High capacity electric pump motors, ranging in capacity from 75 to 150 horsepower, provide the primary power required to draw water from the aquifer and ultimately to the homes and business. Without primary and adequate back-up power, the community will face inadequate fire protection, very low pressures that could contaminate the water system and the curtailment of non-essential water use that will have significant economic consequences to local businesses, and hinder post-emergency recovery of other critical community sectors. Enhanced standby emergency power capacity will reduce the frequency of fuel deliveries and related challenges of obtaining fuel deliveries during emergency conditions. During Superstorm Sandy electrical power serving sections of the Water District supply and treatment facilities was out for up to twenty-nine days.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Use of a portable generator – requires manual transport and switchover, which may not be possible if access to site is restricted due to a storm event. 2. Relocate power lines underground – cost prohibitive 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The installation of a 450 kW automatic emergency back-up natural gas powered generator at Well 17 will provide standby power during regional power outage at this strategic water supply facility. This emergency standby equipment will be used to ensure that water will be available to the public at all times to ensure that adequate fire protection is available and adequate pressures are maintained within the water system to prevent contamination. The installation of the back-up generator will greatly improve standby power redundancy and the availability of strategic water supply facilities during blackouts and severe storms. An increase in standby power capacity will also reduce the frequency of fuel deliveries and related challenges with obtaining deliveries during emergency conditions. The installation of a natural gas fueled generator will improve resiliency by diversify the fuel supply since other District generators operate with diesel fuel.





Mitigation Action/Project Type	SIP
Objectives Met	16
Applies to existing structures/infrastructure, future, or not applicable	Existing infrastructure
Benefits (losses avoided)	Loss of ability of well to provide potable water used for the general public and firefighting, which could lead to property damage. Also prevent potential contamination of the potable water system.
Estimated Cost	\$1,050,000
Priority*	High
Plan for Implementation	
Responsible Organization	Greenlawn Water District: Robert Santoriello, Superintendent
Local Planning Mechanism	Capital Improvement Plan
Potential Funding Sources	HMGP; local cost share
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 #: 1876
Mitigation Action/Initiative: Natural Gas Generator Back-Up Power at Well 17, Buttercup La. Water Supply and Treatment Facility

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Ensure water availability for firefighting.
Property Protection	1	Ensure water availability for firefighting.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Protect from power loss due to hurricane, ice storm, thunderstorms.
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	Infrastructure improvement.
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: Greenlawn Water District
Number: Sandy HMGP LOI #: 1878
Mitigation Action/Initiative: Natural Gas Generator Back-Up Power at Well 8, Burr Rd. Water Supply and Treatment Facility

Assessing the Risk	
Hazard(s) addressed:	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake
Specific problem being mitigated:	Water supply systems have a vital role in public health protection. Having an ample supply of safe drinking water for consumptive use and fire protection is essential to health and property protection. Deep well pumps currently utilized by the Water District to distribute water rely on a significant amount of electric power. High capacity electric pump motors, ranging in capacity from 75 to 150 horsepower, provide the primary power required to draw water from the aquifer and ultimately to the homes and business. Without primary and adequate back-up power, the community will face inadequate fire protection, very low pressures that could contaminate the water system and the curtailment of non-essential water use that will have significant economic consequences to local businesses, and hinder post-emergency recovery of other critical community sectors. Enhanced standby emergency power capacity will reduce the frequency of fuel deliveries and related challenges of obtaining fuel deliveries during emergency conditions. During Superstorm Sandy electrical power serving sections of the Water District supply and treatment facilities was out for up to twenty-nine days.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Use of a portable generator – requires manual transport and switchover, which may not be possible if access to site is restricted due to a storm event. 2. Relocate power lines underground – cost prohibitive 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The installation of a 350 kW automatic emergency back-up natural gas powered generator at Well 8 will provide automatic switching to standby power during regional power outage at this strategic water supply facility. This emergency standby equipment will be used to ensure that water will be available to the public at all times to ensure that adequate fire protection is available and adequate pressures are maintained within the water system to prevent contamination. The installation of the back-up generator will greatly improve standby power redundancy and the availability of strategic water supply facilities during blackouts and severe storms. The installation of a natural gas fueled generator will improve resiliency by diversifying the fuel supply since other District generators operate with diesel fuel.
Mitigation Action/Project Type	SIP





Objectives Met	16
Applies to existing structures/infrastructure, future, or not applicable	Existing infrastructure
Benefits (losses avoided)	Loss of ability of well to provide potable water used for the general public and firefighting, which could lead to property damage. Also prevent potential contamination of the potable water system.
Estimated Cost	\$900,000
Priority*	High
Plan for Implementation	
Responsible Organization	Greenlawn Water District: Robert Santoriello, Superintendent
Local Planning Mechanism	Capital Improvement Plan
Potential Funding Sources	HMGP; local cost share
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 #: 1878

Mitigation Action/Initiative:

- Natural Gas Generator Back-Up Power at Well 8, Burr Rd. Water Supply and Treatment Facility

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Ensure water availability for firefighting.
Property Protection	1	Ensure water availability for firefighting.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Protect from power loss due to hurricane, ice storm, thunderstorms.
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	Infrastructure improvement.
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: Greenlawn Water District
Number: Sandy HMGP LOI #: 1879
Mitigation Action/Initiative: Natural Gas Generator Back-Up Power at Well 14, Cuba Hill Rd. Water Supply, Storage, Booster Pump Station and Treatment Facili

Assessing the Risk	
Hazard(s) addressed:	Hurricane, Nor'Easter, Severe Storm, Severe Winter Storm, Earthquake
Specific problem being mitigated:	Water supply systems have a vital role in public health protection. Having an ample supply of safe drinking water for consumptive use and fire protection is essential to health and property protection. Deep well pumps currently utilized by the Water District to distribute water rely on a significant amount of electric power. High capacity electric pump motors, ranging in capacity from 75 to 150 horsepower, provide the primary power required to draw water from the aquifer and ultimately to the homes and business. Without primary and adequate back-up power, the community will face inadequate fire protection, very low pressures that could contaminate the water system and the curtailment of non-essential water use that will have significant economic consequences to local businesses, and hinder post-emergency recovery of other critical community sectors. Enhanced standby emergency power capacity will reduce the frequency of fuel deliveries and related challenges of obtaining fuel deliveries during emergency conditions. During Superstorm Sandy electrical power serving sections of the Water District supply and treatment facilities was out for up to twenty-nine days.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Use of a portable generator – requires manual transport and switchover, which may not be possible if access to site is restricted due to a storm event. 2. Relocate power lines underground – cost prohibitive 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	The installation of a 350 kW automatic emergency back-up natural gas powered generator at Well 14 will provide standby power during regional power outage at this strategic water supply facility. This emergency standby equipment will be used to ensure that water will be available to the public at all times to ensure that adequate fire protection is available and adequate pressures are maintained within the water system to prevent contamination. The installation of the back-up generator will greatly improve standby power redundancy and the availability of strategic water supply facilities during blackouts and severe storms. The installation of a natural gas fueled generator will improve resiliency by diversify the fuel supply since other District generators operate with diesel fuel.
Mitigation Action/Project Type	SIP





Objectives Met	16
Applies to existing structures/infrastructure, future, or not applicable	Existing infrastructure
Benefits (losses avoided)	Loss of ability of well to provide potable water used for the general public and firefighting, which could lead to property damage. Also prevent potential contamination of the potable water system.
Estimated Cost	\$900,000
Priority*	High
Plan for Implementation	
Responsible Organization	Greenlawn Water District: Robert Santoriello, Superintendent
Local Planning Mechanism	Capital Improvement Plan
Potential Funding Sources	HMGP; local cost share
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 #: 1879

Mitigation Action/Initiative: Natural Gas Generator Back-Up Power at Well 14, Cuba Hill Rd.
Water Supply, Storage, Booster Pump Station and Treatment Facili

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Ensure water availability for firefighting.
Property Protection	1	Ensure water availability for firefighting.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	
Environmental	1	
Social	0	
Administrative	1	
Multi-Hazard	1	Protect from power loss due to hurricane, ice storm, thunderstorms.
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	Infrastructure improvement.
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: Huntington Hospital
Number: Sandy HMGP LOI #: 30
Mitigation Action/Initiative: Hospital Facility Hardening

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	Vulnerability of hospital to wind, power outages, and flooding by surface water and/or tidal surge. The condition worsens annually as more severe storms impact the area. Losses have occurred via wind, wind driven rain, hail and flooding. Damages include significant roof repair/replacement, building envelope/facade damage and interior water exposures. Maintaining power within the facility during severe weather is a community necessity. Studies are underway but there is no documentation to provide at this time.
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	Proposed mitigation includes but is not limited to burying vulnerable power lines, installing power outage management systems, upgrading electrical capabilities, purchasing, replacing and upgrading generators, both permanently installed and portable, as well as the associated electrical distribution and emergency generator equipment, strengthening the building envelope and roof, as well as miscellaneous emergency planning and community development. We will also be reviewing potential upgrades to doors and windows with higher wind/storm ratings and ingress/egress protection from element exposure.
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$2,000,000
Estimated Cost	\$10,000,000
Priority*	
Plan for Implementation	
Responsible Organization	Huntington Hospital: Michael Rohan, Director, Facilities Development





Local Planning Mechanism	
Potential Funding Sources	HMGP; _____ for Local Match
Timeline for Completion	
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 #: 30

Mitigation Action/Initiative: Hospital Facility Hardening

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)		





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: South Huntington Water District

Number: Sandy HMGP LOI #: 120

Mitigation Action/Initiative: Administration Building Fuel Station

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	<p>On December 21, 2012 an Administration Building Fuel Tank Feasibility Evaluation Letter Report was issued by the Water District engineer. The evaluation was initiated due to limited gasoline deliveries during the aftermath of Superstorm Sandy which adversely impacted the ability of Water District employees to travel to and within the service area to maintain critical water supply facilities. Fortunately with significant effort the District was able to obtain limited fuel and was able to transport staff to vital plants throughout the District. However there was great concern until regional fuel supplies were made available on a normal basis that the District would not be able to fuel its vehicle fleet. Water supply systems have a vital role in public health protection. Having an ample supply of safe drinking water for consumptive use and fire protection is essential to health and property protection. Therefore access to water supply facilities on a 24 hour 7 day a week basis is critical.</p> <p>The District presently maintains a 1,000 gallon fuel tank but was not of adequate size based on the magnitude of fuel distribution interruption after Superstorm Sandy. The District took all reasonable and necessary steps in preparing for the hurricane. The existing gasoline storage tank as well as District vehicles were filled prior to the arrival of the storm. Based on the destructive nature of the storm, the District had an intensive post storm response. As a result of the intensity of this response, fuel usage increased. However, the major problem was the lack of fuel supply by the New York State authorized fuel vendor utilized by the District in addition to the gasoline storage across Long Island. Based on these factors, the District plans to replace the existing fuel tank with a larger tank.</p>
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. 2. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	<p>The existing gasoline tank is 1,000 gallons in capacity, with an authorized working capacity of 950 gallons, and an actual working capacity of 875 gallons. The December 21, 2012 Administration Building Fuel Tank Feasibility Evaluation Letter Report recommended that the District install a new 2,500 gallon underground gasoline storage tank. A 2,500 gallon tank has an actual working capacity of 2,265 gallons, which would allow the District to minimize fuel deliveries to approximately every 8-9 weeks based</p>





	on normal fuel usage. This capacity would allow the District to have an adequate reserve supply in the event that a future storm, hurricane, etc. causes similar gasoline shortages. Given the fuel usage estimated by the District, the fuel supply would be turned over enough where the fuel has not begun to degrade yet. This mitigation project will include removal of the existing fuel tank and installation of a new 2,500 gallon underground double wall, fiberglass fuel storage tank, new certified clean fill, fuel piping, fire suppression system, tank monitoring system, fuel dispensing system, concrete top slab, and asphalt pavement.
Mitigation Action/Project Type	
Objectives Met	
Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$0
Estimated Cost	\$279,800
Priority*	
Plan for Implementation	
Responsible Organization	South Huntington Water District: Paul Granger, Vice President
Local Planning Mechanism	
Potential Funding Sources	HMGP; _____ for Local Match
Timeline for Completion	
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 #: 120

Mitigation Action/Initiative: Administration Building Fuel Station

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)		





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: South Huntington Water District
Number: Sandy HMGP LOI #: 1557
Mitigation Action/Initiative: Emergency Generator for Plant 9

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	<p>Water supply systems have a vital role in public health protection. Having an ample supply of safe drinking water for consumptive use and fire protection is essential to health and property protection. Deep well pumps currently utilized by the Water District to distribute water rely on a significant amount of electric power. High capacity electric pump motors, ranging in capacity from 75 to 150 horsepower, provide the primary power required to draw water from the aquifer and ultimately to the homes and business. Without primary and adequate back-up power, the community will face inadequate fire protection, low very pressures that could contaminate the water system and the curtailment of non-essential water use that will have significant economic consequences to local businesses. An increase in standby emergency power capacity will reduce the frequency of fuel deliveries and related challenges of obtaining fuel deliveries during emergency conditions. During Superstorm Sandy power throughout the Water District was out for 13 Days.</p>
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. 2. 3.
Action/Project Intended for Implementation	
Description of Selected Action/Project	<p>The installation of a 200 kW automatic emergency back-up diesel powered generator at South Huntington Water District Plant 9 on Gywne Road will provide standby power during regional power outage at this strategic water supply facility. This emergency standby equipment will be used to ensure that water will be available to the public at all times to ensure that adequate fire protection is available and adequate pressures are maintained within the water system to prevent contamination. The installation of the back-up generator will greatly improve standby power redundancy, and the availability of strategic water supply facilities during blackouts and severe storms. An increase in standby power capacity will also reduce the frequency of fuel deliveries and related challenges with obtaining deliveries during emergency conditions.</p>
Mitigation Action/Project Type	
Objectives Met	





Applies to existing structures/infrastructure, future, or not applicable	
Benefits (losses avoided)	Recent Damages: \$30,000
Estimated Cost	\$550,000
Priority*	
Plan for Implementation	
Responsible Organization	South Huntington Water District: Paul J. Granger, Vice President
Local Planning Mechanism	
Potential Funding Sources	HMGP; _____ for Local Match
Timeline for Completion	
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 #: 1557
Mitigation Action/Initiative: Emergency Generator for Plant 9

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)		





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: Huntington Union Free School District
Number: Sandy HMGP LOI #: 2143
Mitigation Action/Initiative: Backup Power Generator Plan

Assessing the Risk	
Hazard(s) addressed:	
Specific problem being mitigated:	<p>The district has never implemented a backup plan with regards to a complete and prolonged power outage, as was the case with Hurricane Sandy. Currently, the District's primary and only source of power is that delivered through the LIPA power lines to the schols via electrical grids and power stations. As such we are under the mercy of the power companies with regard to the delivery and availability of electricity.</p> <p>Using Hurricane Sandy as an example, the District power in several of our facilities for a duration of nine days (10/29/12 - 11/6/12). As a result, we had several operational issues that arose, including: a failure of all primary and secondary communications systems (essential in notifying our students and residents), near-loss of our entire computer databases and email servers, problems with our fire and intrusion alarms ausing false alarms at various hours), hazardous entry conditions into the buildings and around the surrounding community, security threats due to unlit facilities, and interruption of our daily operation(s), which is to provide education to students in our community.</p> <p>Shortly after Hurricane Sandy, we experienced several power outages throughout the year in several facilities that ranged from a ferw hours to an entire day; this resulted from a weaker infrastructure due to the damage incurred. In the case of the Huntington UFSD, the annual cost of Hurricane Sandy and subsequent outages cost approximately \$250,000 in damages, labor, materials and planning. A backup power source at our facilities would result in minimal expenses stemming from such emergencies, as compared to the aforementioned amount and circumstances.</p>
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> Solar/Wind Power Sources (Cost of implementation, feasibility) Eight Individual Generators (Cost, Logistics, Viability, Space) Purchase of heavy equipment for cleanup (cost, storage, maintenance)
Action/Project Intended for Implementation	
Description of Selected Action/Project	<p>The District is seeking to install generators at our eight (8) facilities in order to continue the flow of operations and to prevent the material losses previously mentioned. The District has four primary, two intermediate, one middle, and one high school(s) within its borders. During Hurricane Sandy, we lost power to all facilities (including a voting site for the 2012 Presidential Election), with no viable backup source. The primary schools would require a smaller backup source than the intermediate, middle and high schools.</p>





	<p>The power generators will allow communications to all sectors of our community regarding an emergency to flow in an uninterrupted manner, secure our network infrastructure (preserving our databases, emails, work and files), avoid false alarms (i.e. police/fire personnel unnecessarily responding to our sites), continue to operate on a normal basis, continue our educational services to students, and reduce any threat of damage, vandalism, or other security risk because of a facility with lights/power. Furthermore, our schools will be able to operate as community centers for our neighboring residents (per school zone), should any resident experience hardship resulting from a disaster such as Hurricane Sandy.</p> <p>Such a plan is even more imperative as we saw the devastating effects on our infrastructure from hurricane Sandy. In order to serve our students and parents in the most effective and responsible fashion, such a plan will dramatically improve the district's position and response in a crisis situation. Lastly, given the scope of expenses during Hurricane Sandy, the District will be able to save significant monies if generators/backup power sources are in place, a key facet given that taxpayer monies fund the large majority of our overall operations. Such a plan will alleviate the burden on our taxpayers and provide for a stable, viable option for our District and community.</p>
Mitigation Action/Project Type	SIP
Objectives Met	2, 7, 12, 14
Applies to existing structures/infrastructure, future, or not applicable	Existing
Benefits (losses avoided)	Recent Damages: \$250,000
Estimated Cost	\$900,000
Priority*	High
Plan for Implementation	
Responsible Organization	Huntington Union Free School District: Sam Gergis, Assistant Superintendent for Business
Local Planning Mechanism	Integrate into district Disaster Recovery Plan and Emergency Procedures
Potential Funding Sources	HMGP; \$62,560 for Local Match (state 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 #: 2143

Mitigation Action/Initiative: Backup Power Generator Plan

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Can prevent injury or death via an operational center for communications
Property Protection	1	Prevent loss and damage to infrastructure district network
Cost-Effectiveness	1	Payment of salaries, work will continue. No backlog of salaries/work
Technical	0	It will suffice, for a short term, during an outage.
Political	1	Can be used as a shelter, will gain political support for initiative.
Legal	1	Yes, per Central Office.
Fiscal	1	Cannot afford to fund under current budget status
Environmental	1	Clean energy, no environmental impacts to surroundings.
Social	0	No impact on community.
Administrative	0	Outside contractor required to maintain generator
Multi-Hazard	1	Prevent temperature swings, ovoid burst pipes and water damage
Timeline	1	Can complete in less than five years
Agency Champion	0	Local government will be support of the initiative.
Other Community Objectives	1	Community Center, Shelter, warming station, and work care during disaster
Total	10	
Priority (High/Med/Low)	High	

1. 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?
2. 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?

