9.31 Village of Dering Harbor

This section presents the jurisdictional annex for the Village of Dering Harbor.

9.31.1 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
Timothy Hogue, Mayor P.O. Box 3010 Shelter Island Heights, NY 11965 Phone: 917-862-6524 E-mail: thogue@hospitalreceivables.com	Laura Hildreth, Village Clerk P.O. Box 3010 Shelter Island Heights, NY 11965 Phone: 631-749-0020 E-mail: vderingharbor@optimum.net

9.31.2 Municipal Profile

This section provides a summary of the community.

Population

According to the U.S. Census, the 2010 population for the Village of Dering Harbor was 90.

Location

The Village of Dering Harbor is located at the northwest corner of the Town of Shelter Island; which is in between the Towns of Southold and East Hampton. The Village is residential, consisting of 33 homes. Ingress/egress from the island is only by ferry.

Brief History

Village of Dering Harbor was incorporated in 1916. It is the smallest Incorporated Village in the State of New York.

Governing Body Format

Mayor and four (4) Trustees. In addition there is a planning Board, Zoning Board of Appeals and Architectural Review Board.

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 9.31.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.31-1. Growth and Development

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

* *Only location-specific hazard zones or vulnerabilities identified.*

9.31.3 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 9.31-2. Hazard Event History

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
June 26-July 4, 2013	Severe Storms and Flooding	DR-4129	No	
February 8-9, 2013	Severe Winter Storm and Snowstorm	DR-4111	Yes - PA (Public Assistance)	$5k – Debris removal and cleanup
October 27-November 8, 2012	Hurricane Sandy	DR-4085	Yes – IA (Individual Assistance) and PA	$7.5k
September 7-11, 2011	Remnants of Tropical Storm Lee	EM 3341 DR 4031	No	
August 26 – September 5, 2011	Hurricane Irene	EM 3328 DR 4020	Yes – IA and PA	
April 26 – May 8, 2011	Severe Storms, Flooding, Tornado and Straight Line Winds	DR 1993	No	
December 26-27, 2011	Severe Winter Storm and Snowstorm	DR 1957	Yes - PA	
September 16, 2010	Severe Storms, Tornados and Straight Line Wind	DR 1943	No	
March 13-31, 2010	Severe Storms and Flooding	DR 1899	Yes - PA	
November 12-14, 2009	Severe Storms and Flooding associated with TD Ida and Nor'Easter	DR 1869	Yes - PA	
August 8-10, 2009	Severe Storms and Flooding	DR 1857	No	
December 11-31, 2008	Severe Winter Storm	EM 3299 DR 1827	No	

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

9.31.4 Hazard Vulnerabilities and Ranking

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

Hazard Risk/Vulnerability Risk Ranking

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

Table 9.31-3. 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: $0	Frequent	24
9	Drought	Damage estimate not available	Frequent	9
7	Earthquake	500-Year MRP: $379,349 2,500-Year MRP: $6,600,243	Rare	16
10	Expansive Soils	Damage estimate not available	Rare	6
6	Flood	1% Annual Chance: $278,856 0.2% Annual Chance: $342,270	Frequent	18
5	Groundwater Contamination (natural)	Damage estimate not available	Frequent	21
3	Hurricane	Category 1 SLOSH: $400,159 Category 2 SLOSH: $2,838,025 Category 3 SLOSH: $4,531,436 Category 4 SLOSH: $6,952,225	Occasional	36
5	Infestation	No measurable impact to property	Frequent	21
1	Nor'Easter	100-Year RCV: $77,030,217 500-Year RCV: $1,357,451	Frequent	54
2	Severe Storm	100-Year RCV: $77,030,217 500-Year RCV: $1,357,451	Frequent	48
1	Severe Winter Storm	1% of GBS: $336,272 5% of GBS: $1,681,358	Frequent	54
5	Shallow Groundwater Flooding	Damage estimate not available	Frequent	21
8	Wildfire	Estimated RCV in Interface/Intermix: $12,803,614	Occasional	12

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 9.31-4. 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)	# Polices in 500-Boundary (3)	# Policies Outside the 500-year Flood Hazard (3)
Village of Dering Harbor	12	2	$0	0	0	0	0	12

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 9.31-5. 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]
None									

Source: HAZUS-MH 2.1

Other Vulnerabilities Identified by Municipality

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

Due to the elevated location of the Village, there is little flood risk however coastal bluff erosion is considered a great risk to the coastal properties in the Village.

The Village experienced damage to approximately 60' of public bulkhead from Sandy. The Village is seeking PA funding to repair the damage, however the current construction standards for bulkheads would be far more costly than the cost to return the bulkhead to its existing construction.

Other private bulkheads protect private property.

The Village water system was found to be vulnerable and fragile during the last hurricane. The system supplies potable water to the 34 homes and supplies water to fire hydrants. If the power goes out a generator is needed to keep the system running. The cost of such generator has been determined to be between $25-30k. During Sandy the Shelter Island Fire Department was able to bring over a portable generator long enough to fill the water tank. The Department of Health is now requiring a generator as soon as possible. As many residents on the island only have well water in the event of a power outage our supply could help them as well as our own residents.

Our water tower holds 100,000 gallons of water. Enough to sustain Village needs for 3-5 days under normal usage. The tank was installed in 1932 and has developed leaks and is not going to be useable for long. The cost for a new tank is just under $300k.

We are in the process of installing a second well as required by the Department of Health. This was a bonded project for over $70k.

To keep everything running we are going to need financial assistance for all of these water related projects.

9.31.5 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 9.31-6. 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			Article III-VI pg. 10-20
Zoning Ordinance	Y			Article I-XII pg. 1-42
Subdivision Ordinance	Y			Article XI pg. 41-42
Special Purpose Ordinances				
Growth Management	Y			Article III pg.10-11
Floodplain Management / Basin Plan				
Stormwater Management Plan/Ordinance				
Comprehensive Plan / Master Plan	Y			Article I-II pg.1-10
Capital Improvements Plan	N			Projects funded as they present themselves
Site Plan Review Requirements	Y			Article X pg. 37
Habitat Conservation Plan	Y			Local Law I-2007
Economic Development Plan				
Emergency Response Plan				
Shoreline Management Plan				
Post Disaster Recovery Plan	N			
Post Disaster Recovery Ordinance	N			
Real Estate Disclosure req.	Y			State mandated
Other (e.g. steep slope ordinance, local waterfront revitalization plan)				
NFIP Flood Damage Protection Ordinance	Y			Village to provide details
NFIP - Freeboard	Y			State mandated BFE+2 for single and two-family residential construction, BFE+1

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.)
				for all other
NFIP - Cumulative Substantial Damages	N			
Coastal Erosion Control Districts	N			

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Dering Harbor.

Table 9.31-7. Administrative and Technical Capabilities

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Village Engineer, by contract
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Village Engineer, by contract
Planners or engineers with an understanding of natural hazards	Y	Village Engineer, by contract
NFIP Floodplain Administrator	Y	Code Enforcement Officer (currently Al Daniels, shared service with Village of North Haven)
Surveyor(s)	Y	Contracted Service if necessary
Personnel skilled or trained in "GIS" applications	Y	Village Engineer, by contract
Scientist familiar with natural hazards in the municipality.	Y	Contracted Service if necessary
Emergency Manager	Y	Mayor
Grant Writer(s)	Y	Contracted Service if necessary
Staff with expertise or training in benefit/cost analysis	Y	Contracted Service if necessary

Fiscal Capability

The table below summarizes financial resources available to the Village of Dering Harbor.

Table 9.31-8. Fiscal Capabilities

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

Community Classifications

The table below summarizes classifications for community program available to the Village of Dering Harbor.

Table 9.31-9. Community Classifications

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

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

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

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule

- The ISO Mitigation online ISO's Public Protection website at http://www.isomitigation.com/ppc/0000/ppc0001.html
- The National Weather Service Storm Ready website at http://www.weather.gov/stormready/howto.htm
- The National Firewise Communities website at http://firewise.org/

National Flood Insurance Program

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

Program and Compliance History

Village of Dering Harbor joined the NFIP on August 11, 1978, and is currently an active member of the NFIP. The current effective Flood Insurance Rate Maps are dated September 25, 2009.

As of January 31, 2014 there are 12 policies in force, insuring $4,200,000 of property with total annual insurance premiums of $5,504. Since January 31, 2014, 2 claims have been paid totaling $0. As of January 31, 2014 there are no Repetitive Loss or Severe Repetitive Loss properties in the community.

Loss History and Mitigation

Since January 31, 2014, 2 claims have been paid totaling $0. As of January 31, 2014 there are no Repetitive Loss or Severe Repetitive Loss properties in the 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":

Land Use Plans – maintain the Master Plan and habitat conservation plan to minimize risk in hazard areas. Updates will include a review of the HMP to ensure that hazard areas are identified in the respective plans.

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

Building Code, Ordinances, and Enforcement – maintain NFIP flood damage prevention ordinance and growth management ordinance to ensure planned development addresses potential hazards.

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

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

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

9.31.6 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 9.31-11. Past Mitigation Initiative Status

Description	Status	Review Comments
VDH-1: Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage with repetitive loss and severe repetitive loss properties as priority.	Continuous	Update to include failed bulkhead. An amended version of this initiative is being carried forward in the updated strategy. Implementation is supported by specific initiatives in the updated strategy, including participation in related county-led initiatives.
VDH-2: Consider participation in incentive-based programs such as CRS and Storm Ready.	No Progress	Lack of resources. The Village has included an initiative to support county-led initiatives, which include programs to enhance floodplain management capabilities. The Village will attend a CRS workshop if offered locally.
VDH-3: Continue to support the implementation, monitoring, maintenance and updating of this Plan, as defined in Section 7.0	Ongoing	This initiative is being removed from the updated mitigation strategy as it refers to activities that are an ongoing and normal part of Village operations. The Village has fully participated in the 2014 update to this plan.
VDH-4: Strive to maintain compliance with and good-standing in the National Flood Insurance program.	Ongoing	This initiative is being removed from the updated mitigation strategy, and identified as a mitigation capability as it refers to activities that are an ongoing and normal part of Village operations. Initiatives that enhance local floodplain management capabilities and participation in the NFIP have been identified in the Village's updated mitigation strategy.
VDH-5: Continue to develop, enhance and implement existing emergency plans.	Ongoing	This initiative is being carried forward as an integration action, specifically identifying that the Village will incorporate the findings and recommendations of this HMP update into amendments/updates to their emergency plans.
VDH-6: Create/enhance/ maintain mutual aid agreements with neighboring communities.	Ongoing	This initiative is being removed from the updated mitigation strategy, and identified as a mitigation capability as it refers to activities that are an ongoing and normal part of Village operations.
VDH-7: Support County-wide initiatives identified in Section 9.1 of the County Annex.	Ongoing	A modified version of this initiative is being carried forward, identifying local participation in specific county-led mitigation programs and initiatives.
VDH-8: Consider the development of a post – disaster action plan, including a debris	Ongoing	A modified version of this initiative is being carried forward, identifying local participation in

Description	Status	Review Comments
management plan. This to be incorporated into existing emergency management plans.		the pending county-led debris management planning process.
VDH-9: Enforce the seismic design provisions in the International Building Code for all new buildings and infrastructure.	Ongoing	The Village has indicated that it will participate in and support the activities of the county-led multi-jurisdictional seismic safety committee.

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

In addition to the progress identified above, the Village has completed the following mitigation activities:

- Replacing the culvert at Julia Dodd Creek (Shore Road) during 2012-13; cost $127,000, FEMA funded. Completing this project allowed for an emergency entrance to the village to remain opened.
- A back-up potable water supply well was built to replace one which failed in 2000.
- The Village, working with the Town of Shelter Island, has performed a documents archiving program, funded through a Local Government Records Management Improvement Fund (LGRMIF) grant from New York State Archives. Document retention schedules were recognized, documents were scanned, and they built a storage facility to the required standards.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Dering Harbor 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 9.31-12 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 9.31-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.31-12. 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
VDH-1	Install a backup generator for the village's water well.	Existing	All Hazards	15, 16	Village	Medium	Medium	FEMA HMA	Short	High	SIP
VDH-2	Install a second well for potable water, with backup generator	Existing	All Hazards	15, 16	Village	Medium	Medium	Federal/State grant funding; Village	Short	High	SIP
VDH-3 (previous VDH-3 through VDH -9)	Support and participate in county-led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: • 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	High	All types
VDH-4 (previous VDH-1)	Assess and prioritize actions to retrofit, acquire, or relocate structures located in hazard-prone areas, and implement as funding becomes available	Existing	Flood, Nor'Easter, Hurricane, Severe Storm	2, 7, 13	Town/Village	High	High	FEMA HMA Grant and Municipality operating budget for cost share	Long-term DOF	Medium	SIP
VDH-5 (previous VDH-2)	Work together with the County and others to bring CRS training/workshops into the community	New & Existing	Flood, Nor'Easter, Hurricane, Severe Storm	1,2,3,7,13	NFIP Floodplain Administrator	Medium	Low	Town/Village Budget	Short	High	LPR

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
	where appropriate community officials and staff will actively participate										
VDH-6	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered "critical", and to be the first priority for clearing after an event involving downed power lines.										
	See above.	Existing	Severe Storm; Severe Winter Storm; Hurricane; Nor'Easter	3, 7, 13, 14, 15, 16	PSEG, County	High	Low-Medium	Local	Short	High	LPR

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

Acronyms and Abbreviations:
DPW Department of Public Works
FEMA Federal Emergency Management Agency
FMA Flood Mitigation Assistance grant program
HMA Hazard Mitigation Assistance grant program (including FMA, HMGP, PDM)
HMGP Hazard Mitigation Grant Program
N/A Not applicable
NFIP National Flood Insurance Program
NYSOEM New York State Office of Emergency Management
PDM Pre-Disaster Mitigation grant program
PSEG Public Service Electric and Gas (formerly LIPA)

Costs:
Where actual project costs have been reasonably estimated:
Low = < $10,000
Medium = $10,000 to $100,000
High = > $100,000

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

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:
Low = < $10,000
Medium = $10,000 to $100,000
High = > $100,000

Where numerical project benefits cannot reasonably be established at this time:
Low = Long-term benefits of the project are difficult to quantify in the short term.
Medium = Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High = Project will have an immediate impact on the reduction of risk exposure to life and property.

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

Mitigation Category:

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

Table 9.31-13. 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
VDH-1	Install a backup generator for the village's water well.	0	1	1	1	1	1	0	1	0	1	1	1	1	0	10	High
VDH-2	Install a second well for potable water, with backup generator	0	1	1	1	1	1	0	1	0	1	1	1	1	0	10	High
VDH-3 (previous VDH-3 through VDH -9)	Support and participate in county-led initiatives intended to build local and regional mitigation and risk-reduction capabilities	1	1	1	1	1	1	1	0	1	1	1	1	1	1	13	High
VDH-4 (previous VDH-1)	Assess and prioritize actions to retrofit, acquire, or relocate structures located in hazard-prone areas, and implement as funding becomes available	0	1	1	1	1	1	0	1	1	0	1	0	1	0	9	Medium
VDH-5 (previous VDH-2)	Work together with the County and others to bring CRS training/ workshops into the community where appropriate community officials and staff will actively participate	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Medium
VDH-6	Work with County and PSEG (formerly LIPA) to identify roads within the municipality that are considered "critical", and to be the first	1	1	1	1	1	1	1	0	1	1	1	1	1	0	12	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
	priority for clearing after an event involving downed power lines.																

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

- *= Prioritization remained the same as the 2008 HMP.*

9.31.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.31.8 Hazard Area Extent and Location

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

9.31.9 Additional Comments

None at this time.

Figure 9.31-1. Village of Dering Harbor Hazard Area Extent and Location Map 1

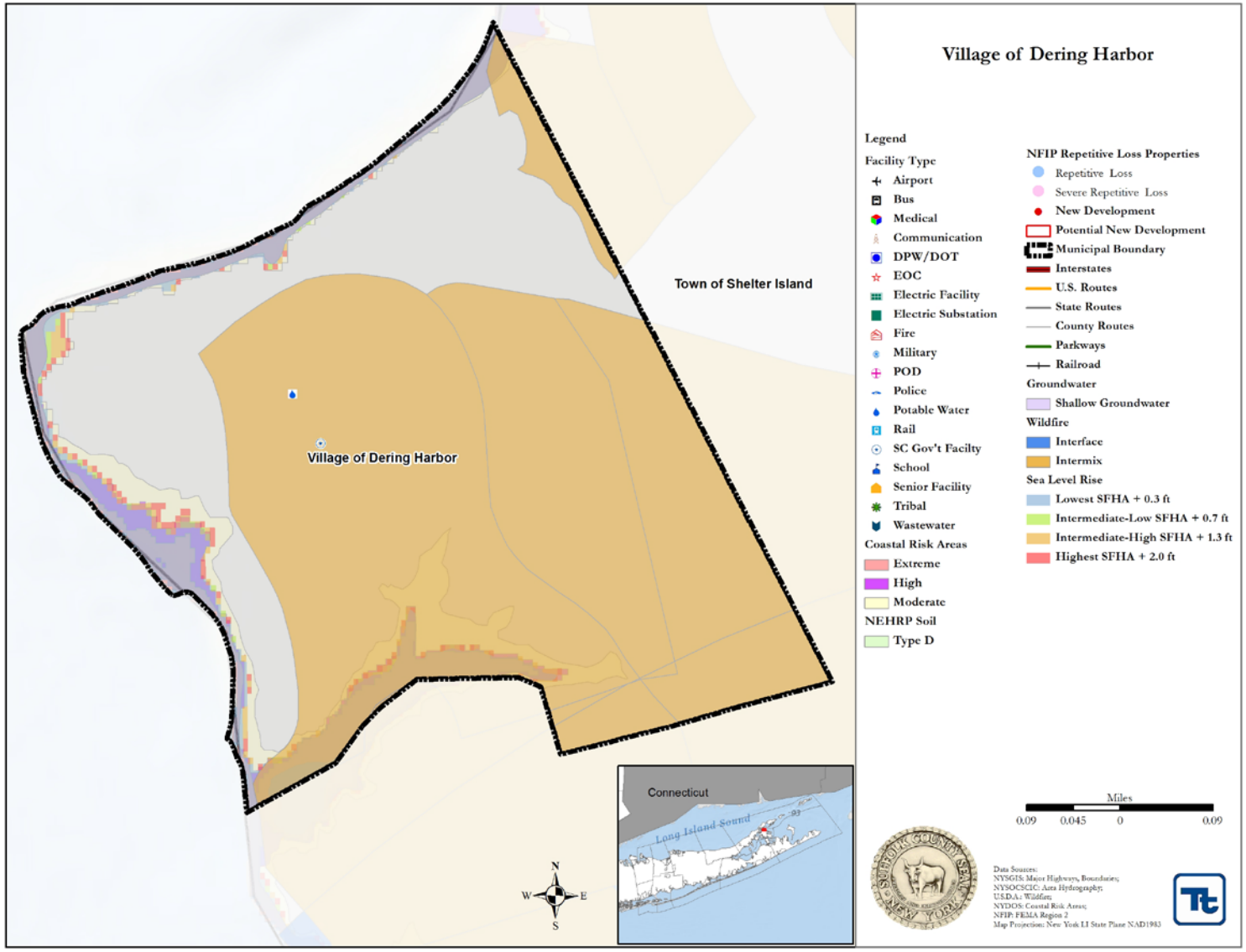

Figure 9.31-2. Village of Dering Harbor Hazard Area Extent and Location Map 2