

**APPENDIX E –**

**PARTICIPATING JURISDICTIONS IMPLEMENTATION STRATEGY SHEETS**



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Monmouth County

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to answer questions.

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
HIGH	Project # 1 – Storage of Critical Equipment	Flooding, Storms, Nor’easter & Storm Surge	Existing	Dept. of Public Works & Engineering & Building & Grounds	Capital Improvement Program	2009-2010	1.5 Million	PDMP, FMAP, County Budget
MED	Project # 2A – Hydrological and Drainage Studies	Flooding, Storm Surges	Existing	Various County & Municipal Agencies	State Permits, Property Easements & Stormwater Mgmt Plan	2009 – 2010	\$500,000	PDMP, FMAP & County Budget
LOW	Project # 2B – Sediment Management Site	Flooding, and Storm Surge	Existing	Various State, County & Municipal Agencies	State Permits & Property Acquisition	2012 – 2013	6.5 Million	PDMP, FMAP, State, County & Municipal Funds

Please attach additional pages as needed.



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Monmouth County

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MED	Project # 3 – Utility Protection	Flooding, Hurricanes, Nor’easter, High Wind & Fire	Existing	County OEM, Utility Companies	State permits, OEM Planning	2010	2.5 Million	PDMP, FMAP Utilities & County Budget
MED	Project # 4 – Purchase Properties	Floods, Nor’easter & Hurricanes	Existing	County Parks, other County Agencies & Non profit conservation agencies	Open Space Plan	2009 – 2013	15 Million	PDMP, FMAP, State, County, Municipalities & Non Profit
MED	Project # 5 – Roads and Bridges	Floods, Storm Surge, Dam Failure, Wind Nor’easter & Hurricane	Existing	County Dept. of Public Works & Engineering, & Municipal agencies	Capital Improvement Program, State Permits, OEM Planning	2009 – 2013	17.7 Million	PDMP, FMAP, State, County

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HIGH	Project # 6 – Shelter Hardening	Floods, Wind, Winter Storms, Tornado, Nor’easter, Hurricanes & Excessive Heat	Both	County Health Department & County OEM	Special Needs Plan, Shelter Plan	2011	2 Million	PDMP, FMAP, EMPG, & HLS

Please attach additional pages as needed.

## **MONMOUTH COUNTY PROJECTS FOR PRE-DISASTER MITIGATION PLAN**

### **1. RETROFIT EXISTING FACILITIES FOR STORAGE OF CRITICAL EQUIPMENT PRESENTLY HOUSED AT FLOOD-PRONE HIGHWAY DISTRICT GARAGES**

Highway districts #1 (Belford) and #8 (Hazlet)

Monmouth County stores equipment at regional Highway District Garages. There are flooding problems at County Highway District #1, in the Belford section of Middletown and at County Highway District #8, in Hazlet. Critical equipment necessary to prepare for, respond to and recover from natural disasters would be moved to other Highway District Garages or other County facilities. These other existing facilities need to be retrofitted and expanded to provide adequate storage.

### **2. REGIONAL STORMWATER MANAGEMENT (Phase 1 ó Hydrological and Drainage Studies ----- Phase 2 ó Acquisition/Construction of Sediment Management Site)**

2A. Phase 1: Identify and Prioritize critical stream segments and receiving water bodies most often flooded, Develop and Secure Permits to clean, dredge, widen and otherwise improve water flow to reduce flooding impacts and flooded areas.

2B. Phase 2: Acquire Properties for Regional Dredge Management Site(s), Design and Secure Permits to construct appropriate facilities for acceptance, storage and reuse of the materials removed from impacted streams and lakes. Construct Facilities.

### **3. PROTECTIVE MEASURES FOR UTILITY RIGHTS-OF-WAY**

Upgrade existing power line, natural gas, water supply and sewer easements served by unimproved dirt roads or trails to assure ready access by emergency response and repair vehicles, in cooperation with local utilities. (Many Utility ROW have become impassable without 4WD vehicles and on-the-spot cut and fill; and severely impede timely storm preparation or repairs.)

### **4. PURCHASE OF FLOOD-PRONE PROPERTIES**

Acquisition and deed restriction of properties Monmouth County and locally active conservation organizations have identified for preservation which are located in flood-prone areas.

### **5. UPGRADE CRITICAL COUNTY ROADS AND BRIDGES IMPACTED BY FLOODING**

Under this project, Monmouth County will investigate and prioritize roadways and bridges with history of flooding with negative implications to public safety with respect to the drivers and/or nearby residents' mobility. Once they have been prioritized, County will then develop a schedule to proceed with the design of improvements to the specific critical County facility to safeguard the infrastructure as well as the general public utilizing the said critical County facility.

- An example of a critical Monmouth County facility upgrade which may fall under this project is the Monmouth County Route 7, Palmer Avenue, on the Holmdel-Middletown

border, just north of State Route 35. The roadway, which has a history of frequently flooding, is a two lane arterial which serves as a direct link between SR35, CR516 and SR36 to the north. Residents on a local residential street, Billingsgate Drive, are essentially trapped when Palmer Avenue floods since the only access to the neighborhood is via Palmer Avenue. Specifically, the roadway floods in two areas:

- South of Billingsgate Drive which floods for a length of several hundred feet. The low point of the roadway is at the headwaters of a tributary branch of the Waackaack Creek.
- North of Billingsgate Drive in the vicinity of a Monmouth County bridge (H-5) where CR7, Palmer Avenue, crosses a tributary of the Waackaack Creek. While this area floods less frequently than the first area, it is of concern.

Potential means to address the flooding in the first area is de-silting & de-snagging the tributary branch and/or raising the roadway to be above the common flood elevation. Correcting the flooding at the second area will require investigation of alternatives and their impacts to the surrounding area. With funding, alternatives will be investigated, moved to final design, and construction of remedial repairs and reconstruction Palmer Avenue and the bridge may be performed.

- Another example of critical facilities that may fall under this project is the bridges and roadways that are associated with high hazard potential (Class I) dams in the County. By NJDEP Dam Safety Standards, high hazard potential dams are “those dams, the failure of which may cause the probable loss of life or extensive property damage.”

While we understand that the primary dam structure, i.e. the spillway system, is not a fundable project, the bridge and roadway, which are linked to the dam due to the spillway system being just upstream of the bridge and associated roadway, are eligible. It is imperative that when a high hazard dam is rehabilitated to safely discharge the State required rainfall event between the 100-year storm event and the Probable Maximum Precipitation event, the bridge and roadway will also have to be upgraded or the safety problem is just being transferred to the adjoining bridge and roadway. The safety problem may be from the bridges and roadways flooding due to inadequate capacity to safely pass the flow being discharged through the spillway and/or the structural integrity of the bridge and roadways being compromised by the spillway discharge.

This is a major issue for the County as generally speaking, Monmouth County does not own the primary dam structure but owns the adjoining properties in the form of a bridge and roadway. There are currently four (4) high hazard potential dams of which three (3) require major rehabilitation to maintain its integrity for public safety. They are:

- Monmouth County Bridge U-12 and County Route 539, Main Street, are connected to the spillway system of Allentown Dam. The County has recently completed the design for rehabilitation of the dam, bridge, and roadway by partnering with the local owner, the municipality. County is currently proceeding to advertisement, award, and the construction of the necessary rehabilitation work to maintain the

integrity of the dam. The associated bridge is being reconstructed and the associated roadway is being upgraded to ensure safe passage of the necessary spillway discharge as per NJDEP Dam Safety Standards.

- Monmouth County Bridge MN-10 and County Route 527, Sweetman's Lane, are connected to the spillway system of Millhurst Mill Dam. The bridge and roadway will need to be upgraded when the dam is rehabilitated to be in compliance with the NJ Dam Safety Standards to ensure public safety.
- Monmouth County Bridge U-18 and County Route 526, Church Street, are connected to the spillway system of Indian Lake Dam. The bridge and roadway will need to be upgraded when the dam is rehabilitated to be in compliance with the NJ Dam Safety Standards to ensure public safety.
- Other examples of critical facilities are bridges susceptible to scour as a result of nor'easters or hurricanes. In particular, Monmouth County Bridge W-43 carries a coastal roadway immediately adjacent to the Atlantic Ocean. The substructures are exposed to direct tidal and storm flow. The substructures can be easily undermined by significant natural events (and have been in the past):
  - The bridge currently has suffered from scour conditions because a seawall was breached by a barge collision thereby exposing the south abutment to scour. A major storm event could compromise the structure.
  - The rip rap seawall immediately west of the bridge has suffered the same fate and further undermining could affect adjacent residential properties.

Monmouth County owns and operates three (3) other coastal bridges that are also susceptible to wave, tidal and storm surge damage. Each of these would require a form of armoring to limit damage.

## 6. SPECIAL NEEDS SHELTER HARDENING

Retrofit, harden and make structural improvements to the four (4) regionally designated Special Needs Population Evacuation Shelters that are located outside of flood prone and other high hazard areas and are considered critical infrastructure.

Based on the list of approved American Red Cross Shelters, four (4) regional critical infrastructure sites will be identified as "regional hub" (supply distribution) and Special Needs Shelters. The hardening of these shelters would include making them resistive to high winds and flooding from Nor'easters and hurricanes. It would also harden them against the adverse conditions of tornados, winter storms, and utility outages protecting against extreme temperature differences. The project will include fire resistive construction products that will aid in protection from wildfires and lightning strikes. None of these critical infrastructure sites are located in such an area that is susceptible to storm surge, wave action, coastal erosion or dam failure. These sites are located in the municipalities of Neptune, Holmdel, Tinton Falls and Colts Neck.



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Aberdeen Township\_\_\_\_\_

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High	Create a mitigation outreach program that helps residents prepare for disasters.	All	Both	Office of Emergency Management	Local Emergency Planning Committee	2009	Minimal cost. Use existing resources.	Municipal operating budget
Medium	Develop specific mitigation solutions for flood-prone roadways, specifically State Highway 35 at Long Neck Creek, Lakeshore Drive and Greenwood Ave., and Amboy Ave., under the leadership of NJDOT. Develop a work plan for when sites will be surveyed and what role can the local government play in selection and implementation of mitigation activities (e.g. any monetary or contextual support through the local capital improvement plan).	Flooding caused by floods, hurricanes, and nor'easters.	Existing	Township Manager, Township Engineer, NJDOT, Monmouth County Highway Dept.	Coordination with municipal, county, and state agencies. Plans for improvements to Highway 35 have been in development for many years.	Unknown	Unknown, although probably significant capital costs.	Combination of local, state, and county capital improvement budgets, plus grants if available.

*Please attach additional pages as needed.*





## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) ALLENHURST BOROUGH NJ0130100

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HIGH	Action 2B Mitigation Outreach	ALL	BOTH	OEM	Borough Administration	12/31/09	\$850.00	Borough
HIGH	Action 11A Purchase NOAA Weather Radios for critical facilities.	ALL	NEW	POLICE	OEM	7/15/09	\$250.00	Borough
MEDIUM	Action 11B Educate residents about Winter driving and Winter hazards.	Winter Storm Related Hazards	New	OEM & POLICE	POLICE	11/15/09	\$200.00	Borough

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Allentown Borough\_\_\_\_\_

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1	Educate residents about what to do before, during and after a flood.	Flooding	Both	O.E.M. & Deputy O.E.M.	With Allentown Borough Mayor and Council Approval.	7-08	Minimal	Municipal Funding
2	Develop an inventory of addresses that could be affected by a wild fire. Use inventory and develop a route alerting system.	Wildfires	Existing	O.E.M. & Deputy O.E.M.	With Allentown Borough Mayor and Council Approval.	9-08	Minimal	Municipal Funding
3	Reconstruct an existing dam that runs below County Route 539. Dam failure cause major private and public property damage. This would also greatly affect & damage municipal sewer plant.	Dam Failures	Both	O.E.M. & Deputy O.E.M.	Local Planning & Zoning Board with Mayor & Council Approval.	Unknown	High	Municipal & County Funding

Please attach additional pages as needed.



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) City of Asbury Park\_\_\_\_\_

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Medium	Repair Damages Storm Drains	Flooding	Both	City Engineer	City Engineer/Engineering	2010	\$500,000	Unknown
High	Replace Bulkhead and Dredge Sunset Lake	Flooding	Existing	City Engineer	City Engineer/Engineering	2010	\$1,200,000	Unknown
High	Replace Bulkhead and Dredge Wesley Lake	Flooding	Existing	City Engineer	City Engineer/Engineering	2010	\$200,000,000	Unknown

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IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Atlantic Highlands\_\_\_\_\_

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#1 High	Project #1 Hillside Road ó Phase II	Flooding/Erosion	Both	Mayor & Council	Boro Administrator & Engineer, OEM Shelter Plan & Evacuation	2010/2011	\$500,000  +/-  High	Budget/Grant PDMP FMAP
#2 Medium	Project #2 Firemanø Field	Flooding	Existing	Mayor & Council, Atlantic Highlands Fire Department	Boro Administrator & Engineer, Fire Department representative	2011/2012	\$1.5m  High	Boro & Fire Dept Budget & Grants PDMP FMAP
#3 Medium	Project #3 Bayside Drive Erosion Stabilization	Erosion	Both	Mayor & Council	Boro Administrator & Engineer, OEM Shelter Plan & Evacuation	2012/2013	\$1.5m  High	Budget/Grants PDMP FMAP

Please attach additional pages as needed.



## IMPLEMENTATION STRATEGY

Avon By The Sea \_\_\_\_\_

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Medium	Continue outreach efforts to residents & businesses through the quarterly Boro newsletter and Borough website	Flooding Windstorm Winter Storms	BOTH	OEM Coordinator	Borough Newsletter which is distributed Quarterly	Summer 2008 and Ongoing	Free ó newsletter already printed regularly	Existing Funds
Medium	Establish a resource library at the Boro Library to include printed materials as well as electronic data from the internet related to natural disasters	Flooding Windstorm Winter Storms	Both	Librarian OEM Coordinator	Library Staff will develop based on guidance from OEM	Summer 2008	Collection of Data - Free	Funds from the Library Board of Trustees
High	Evaluate vulnerabilities of existing emergency facilities including the Municipal Building (PD & FD HQ) EMS HQ and Water Treatment Plant. Develop action plan for deficiencies identified	Flooding Windstorm Winter Storms	Both	OEM Coordinator Construction Department	OEm will work with code office for evaluations	Spring 2009	Assessment Free ó corrective actions \$10,000 +	Assessment from Municipal Staff culture action TBD

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Low	Expand upon the lake management efforts for the Sylvan lake to reduce damage from flooding. Include additional wall replacement and dredging activities to remove silt from steams feeding the lake	Flooding	Existing	Sylvan Lake Commission a joint agency of the Borough of Avon By The Sea & Bradley Beach wher Lake serves as the border	Sylvan Lake Commission withplans developed through grant funds from the NJ DEP	Fall 2009 - 2010	\$250,000 + as area of dredging expands	Funds from Avon & Bradley Beach as well as DEP Grant obtained 2007

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## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Belmar\_\_\_\_\_

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Medium	Continue to implement projects identified in the Capital improvement plan and seek grant funding when possible to offset project costs.	All Hazards	Existing and New	Belmar DPW	Capital Improvement Fund	Ongoing	-	Capital Improvement Fund
Medium	Stabilization of Shoreline	Coastal Erosion	Existing	Belmar DPW	Capital Improvement Fund	Ongoing		Capital Improvement Fund
High	Lake Como Flooding Mitigation Project	Flooding	Existing and New	Belmar DPW	Capital Improvement Fund	2008-2011	\$325K	Capital Improvement Fund

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## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Bradley Beach Borough

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Medium	Continue to implement measures to mitigate ocean and lake flooding due to hurricanes and large storms. This includes the new installation of outfall pipes and bulk-heading around Fletcher Lake, bulk-heading around Sylvan Lake and continued maintenance of the dunes which run along the entire beachfront.	Flooding due to hurricanes, coastal flooding and large storms	Both	Mayor, Council, and Fletcher and Sylvan Lake Commissions	Borough Administrator, Lake Commissions and Public Works Department	2008	High	Budget and grants
Medium	Action 14.A ó Conduct evaluations of emergency facilities to determine the level of protection from flooding and wind damage.	All	Both	Mayor and Council, Office of Emergency Management	Borough Administrator, Emergency Management Coordinator	2008	Low	Budget
Medium	Continue to support and fund the Borough's Community Emergency Response Team	All	Both	Mayor, Emergency Management Coordinator	Emergency Management Coordinator	2008	Medium	Budget
Medium	Action 14.D ó Continue to implement the best management practices for floodplain areas.	Flooding	Both	Mayor, Council, Borough Administrator, Borough Engineer	Borough Engineer	2008	Medium	Budget

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IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_

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BRIELLE

**OCEAN AVENUE BULKHEAD MITIGATION:**

The Ocean Avenue Bulkhead is deteriorating due to age and the pressure of the tides. At present the Borough is maintaining the bulkhead by adding stone on the landward side, but as the tide ebbs and flows the stones are being gradually displaced.

Unless the outer bulkhead is replaced, the end of the roadway will eventually collapse. This will undermine the adjacent properties and can cause flooding in particular during a period of high tide. Any storm that creates a tidal surge would then pose a severe threat to the area and further undermine Ocean Avenue.

## SPECIAL NEEDS FOR SHELTER RESTRUCTURING

Retrofit and make improvements to a dedicated Emergency Shelter located outside of the flood prone areas. The improvements would make the shelter resistive to loss of power during Hurricanes, Nor-easters and other high wind storms. It would also harden the structure against utility outages due to extreme temperature indifferences.



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction)

**Colts Neck Township**

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
Medium	Action 2A ó Expand and disseminate GIS and other hazard information on the internet.	All	Both	Township Administration	Township OEM and Web-Site Coordinator	2009	Low (administrative)	Budget
Medium	Action 2B ó Create mitigation outreach program that helps residents and businesses prepare for disasters.	All	Both	Township Administration	Township OEM in coordination with other local emergency services.	2010	Low (administrative)	Grants, Budget
Medium	Action 11B ó Educate residents about driving in winter storms and handling winter related health effects.	Winter Storms and Norøasters	Both	Township Administration	Township Police in coordination with other local emergency services.	2009	Low (administrative)	Grants, Budget
Medium	Action 11C ó Promote ice and windstorm resistant trees and trimming to reduce tree related hazards.	Winter Storms and Norøasters	Both	Township Administration	Township OEM in coordination with local Shade Tree Committee.	2008	Low (administrative)	Grants, Budget

*Please attach additional pages as needed.*



*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Borough of Deal

This form should ONLY be completed AFTER your jurisdiction has considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable (completed in February 2008), selected a subset of the actions that your jurisdiction would like to implement, and prioritized those actions using the Prioritization of Actions worksheet. This worksheet is intended to document how you will implement your selected actions and is REQUIRED for each municipality participating in the planning process. You should complete this worksheet AFTER the Prioritization of Actions worksheet. This worksheet must be received by URS no later than April 30, 2008 in order to be included in the Plan (send to: Anna Foley, URS, 201 Willowbrook Blvd., 3<sup>rd</sup> Floor, Wayne, NJ 07470-7005. Phone: 973-785-0700 ext. 339. Fax: 973-812-0985. Email: [anna\\_foley@urscorp.com](mailto:anna_foley@urscorp.com)). A Working Session of the Core Planning Group will be held in April 2008 where the URS Team will walk you through completion of this form and will be available to answer questions.

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Set up detention Pond and berm system to prevent future flooding for Popular Brook between Norwood Ave and Ocean Ave	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami	Both	Business Admin, DPW, OEM, Boro Engineer, Army Corp, State DEP	To be included in Storm water Management Plan and flood plain ordinance	2009-2010	6 million dollars	Federal, Green Acres (State), County, Municipal
High	Widen coverts under roadways in three different streets for Popular Brook (Norwood Ave, Alymar Ave, Ocean Ave)	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami	Both	Business Admin, DPW, OEM, Boro Engineer, Army Corp, State DEP, County Bridge Dept, State DOT	To be included in Storm water Management Plan and flood plain ordinance	2009-2010	5 million dollars	Federal, Green Acres (State), County, Municipal

*Please attach additional pages as needed.*



# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **Borough of Eatontown**

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
Priority 1- High-	Dredge Husky brook that run through town. Fix Lewis Street Public Works yard from flooding	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	Existing-PW Yard; DPW All bridges that cross over Husky Brook	Mayor/Council; Boro Engineer	Mayor and Council/Commitee or Commission	2010	500K	Capital Improvement; State Grants
Priority 2- Medium	Add Generators to shelters for emergency power and telecommunications	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	Existing Boro Hall, Fire Station and DPW All Board of Education Schools	Mayor/Council Board of Education Boro Engineer	Mayor and Council/Board of Education	2010	500-700K	Capital Improvement; State Grants; Federal Grants/Progs.
Priority 3 Medium	Purchase NOAA Radios and educate residents about storms	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	none	OEM Coordinator	OEM Coordinator	2009	5-10K	Budget and/or Capital Improvements

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

(Name of Jurisdiction)                     ENGLISHTOWN                    

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Conduct Routine Stream Maintenance Program and seek financial assistance to clean out stream segments with heavy sediment deposits, Weamaconk Creek and McGellairds Brook	Flooding, Heavy Rain Events, Norøasters and Hurricanes, Spring Thaw (Snow Melt)	Existing Streams	Mayor Council	Storm Water Management Plan, Master Plan	2010 - 2011	Medium	Local Budget, Available Grants

*Please attach additional pages as needed.*





# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) BOROUGH OF FAIR HAVEN

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
1	PLACE POWER TRANSMISSION LINES UNDER GROUND	DOWNED POWER LINES DURING WIND OR ICE STORMS	PREVENT LOSS OF POWER AND THE HAZARDS OF DOWNED HIGH VOLTAGE POWER LINES	JCP&L	BOROUGH ORDINANCE COULD MANDATE ALL POWER LINES BE PLACED UNDERGROUND	10 YEARS	\$5,000,000 +	GRANTS
2	REPLACE OLDER DAMAGED UTILITY POLES WITH NEWER UP TO DATE POLES	DOWNED POWER LINES DURING WIND OR ICE STORMS	PREVENT LOSS OF POWER AND THE HAZARDS OF DOWNED HIGH VOLTAGE POWER LINES	VERIZON	BOROUGH ORDINANCE COULD MANDATE REPLACEMENT OF OLDER UTILITY POLES	10 YEARS	UNKNOWN	GRANTS
3	REMOVE OR TRIM TREES THAT WOULD HAVE THE POTENTIAL OF FALLING DURING A STORM	THREAT OF INJURY TO THE PUBLIC AND DAMAGE TO PROPERTY	PREVENT LOSS OF POWER AND THE HAZARDS OF DOWNED HIGH VOLTAGE POWER LINES	DPW JCP&L	BOROUGH ORDINANCE COULD MANDATE REMOVAL OF TREES	10 YEARS	UNKNOWN	GRANTS

*Please attach additional pages as needed.*



FARMINGDALE  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Farmingdale

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
M	Harden existing shelters for storm resistance	All	Both	HTOEM	EOP Shelter Annex	9/08	120,000	PDMP, FMAP, EMPG & HLS
M	Increase shelter in place capabilities	All	Both	HTOEM	EOP Shelter Annex	8/08	60,000	PDMP, FMAP, EMPG, HLS & Local Budget
L	Purchase raise or address repetitive flood areas & properties	NorEaster, winter storms, tornado, hurricane	Both	HTOEM	Town Master Plan	2012	3,000,000	PDMP, FMAP, EMPG & HLS

*Please attach additional pages as needed.*



## FARMINGDALE

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Redundant dispatch & EOC upgrade	All	Both	HTOEM HTPD	EOP COMM, EOC, ANNEX	12/08	300,000	Local Budget PDMAP FMAP EMPG & HLS
High	Stand by power for emergency needs	All	Both	HTOEM HTPD HTDPW	EOP EMERGENCY RESPONSE ANNEX	7/08	60,000	Local Budget PDMAP FMAP EMPG HLS
High	Back up water purification for shelter and utility outage	All	Both	HTOEM HEALTH	EOP SHELTER & PUBLIC HEALTH ANNEX	6/08	35,000	Local Budget PDMAP FMAP EMPG HLS

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) FREEHOLD BOROUGH

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Planning & funding to Update Communications & back-up power systems in The EOC	All	Both	Mayor, Council & Business Administrator	Business Administrator, CFO	2010	\$50,000.00	Bond Ordinances Budgetary item
High	Emergency generators installed in our grammar schools that are designated as Evacuation centers	All	Both	Mayor & Council Local school board	Mayor & Council	2012	\$150.000.00	Bonds & budget items
Low	Create an outreach program to help residents plan for disasters	All	Both	OEM, Mayor & Council	OEM	2010	\$5000.00	Budget items

*Please attach additional pages as needed.*



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **FREEHOLD TOWNSHIP**

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	<b>Action 4-F:</b> Conduct routine stream maintenance program to identify areas prone to flooding and seek financial assistance to clean out problem segments.	Flooding Heavy Rain Event	Existing	OEM Public Works County, State and Federal agencies	Storm Water Management Plan; Mon. Cnty. Mosq. Comm. Regulations; Public Works Initiatives	2012	Low	Grants, Local Match, County Budget
High	<b>Action 2-B:</b> Create mitigation and preparedness outreach program by providing information that helps residents and property owners prepare for disasters.	Drought, heavy rain and wind events, earthquakes, lightning strikes, dam failures, wildfires, winter storms, tornadoes, extreme temperatures	Both	OEM	Emergency Operations Plan; Pre-Disaster Mitigation Plan	2008 & Ongoing	Low	Local and Available Grants
High	<b>Action 11-B:</b> Educate public about driving in winter storms and preparing for winter-related health hazards.	Winter Storms	Both	OEM	Emergency Operations Plan; Pre-Disaster Mitigation Plan	2009 & Ongoing	Low	Local and Available Grants

*Please attach additional pages as needed.*



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) HAZLET TOWNSHIP

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	10.A Develop a mapping of wildland/urban interface areas with assistance of the NJFFS.	Wildland Fires	Existing	OEM and Fire Chiefs	Board of Fire Chiefs	2008	Minimal, grant from NJFS	New Jersey Forestry Service.
High	10.B Put together a list of addresses for route alerting during wildfire emergencies that require public warning.	Wildland Fires	Existing.	OEM	OEM	2008	Negligible	None
Medium	10.I Mitigation for Streets, Highways and roads that provide key fire access and fuelbreaks.	Wildland Fires	Both	Hazlet Public Works	Hazlet Public Works	2010	?	Unknown at this time.
Medium	10.J With assistance of NJFFS, widen all paths in the wildland area for better access.	Wildland Fires	Both	OEM. NJFFS		06/01/09	?	New Jersey Forestry Service.

*Please attach additional pages as needed.*



(Name of Jurisdiction) Highlands Draft\_\_\_\_\_

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action (1.E) Update Highlands Flood Mitigation Plan 1999. Use existing flood damage prevention ordinance 0-98-12, flood ID survey results, surface flooding drainage study, and repetitive loss survey results. Include damage surveys and repair cost estimates	Flooding	Both	Mayor and Council	Boro Engineering Planning Board Code Enforcement Emergency Management	2008	\$25,000	Grant/ Local Budget
High	Action (4.E) Use flood ID Survey results in Highlands Mitigation plan to mitigate damage and losses due to flooding. Specifically undersized drainage pipes pumping stations and bulkheads. Storm water runoff from hill sections, tidal conditions and coastal flooding create severe flooding conditions.	Flooding Due to Storm water run off, tidal flooding, and Coastal Floods, Hurricanes and Nor'easters	Both	Mayor and Council	Boro Engineering Planning Board Code Enforcement Emergency Management State and Federal	2011	Planning and Engineering \$500k  Pumps \$1.5m  Storm Drain replacement and repair \$21M	Federal State Grants Local Match

*Please attach additional pages as needed.*



Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action (7.B) Reduce the possibility of damage and losses due to coastal erosion and wave action.	Flooding Due to Inland and Coastal Floods, Hurricanes and Nor'easters	Both	Mayor and Council	Boro Engineering Planning Board Code Enforcement Emergency Management State and Federal	2012	Planning and Engineering \$100 k  Bulkhead Warve repairs \$750k	Federal State Grants Local Match
High	Action (9.D) Reduce the possibility of damage and losses due to landslides. Highlands has specific areas identified (9.A) prone to landslides. Damage as a result of a landslide currently has Bayside Drive closed	Landslides due to Steep Slopes and Slump Blocks	Both	Mayor and Council	Boro Engineering Planning Board Code Enforcement Emergency Management State and Federal	2010	Planning and Engineering \$350 k  \$3M	Federal State Grants Local Match
Medium	Action 2C Planning for and Funding Improvements to Telecomm and Electrical Systems at Critical Facilities including Facilities used For EOC and as local shelters	All types of manmade and natural disasters	Both	Mayor and Council	Boro Administrator Emergency Management School BOEs	2009	\$100k est for Emergency Power and Telecomm upgrades	Grants Local Budget

*Please attach additional pages as needed.*





Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
Medium	Action (13.E) Install hurricane clips and wind shutters on existing development particularly emergency facilities and shelters built before existing codes were adopted to offer some degree of protection	All critical facilities	Both	Mayor and Council	Boro Administrator Emergency Management School BOEs	2012	Unknown	Grants Local Budget
Medium	Action (14.A) Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine Existing level of protection, particularly to flooding, and implementing recommendations.	All critical facilities	Both	Mayor and Council	Boro Administrator Emergency Management LEPC Business improvement District	2010	Unknown	Grants Local Budget



# IMPLEMENTATION STRATEGY

(Name of Jurisdiction)

Holmdel Township

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High	Retrofit Existing Sewer Pump Stations with Hurricane Clips/Straps as needed.	Reduce possibility of loss of municipal sewer service due to windstorms/hurricanes	Existing	Township Administrator	Building Ordinance	6/1/2009	Low cost 6 less that \$20,000	Municipal
High	Require mulch on or adjacent to commercial shopping area parking lots to be fire resistant.	Fire and public safety	Both	Township Committee	Municipal Ordinance	3/1/2009	Low cost	Private

Please attach additional pages as needed.



HOWELL  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Howell

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M	Harden existing shelters for storm resistance	All	Both	HTOEM	EOP Shelter Annex	9/08	120,000	PDMP, FMAP, EMPG & HLS
M	Increase shelter in place capabilities	All	Both	HTOEM	EOP Shelter Annex	8/08	60,000	PDMP, FMAP, EMPG, HLS & Local Budget
L	Purchase raise or address repetitive flood areas & properties	NorEaster, winter storms, tornado, hurricane	Both	HTOEM	Town Master Plan	2012	3,000,000	PDMP, FMAP, EMPG & HLS

*Please attach additional pages as needed.*



## HOWELL

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Redundant dispatch & EOC upgrade	All	Both	HTOEM HTPD	EOP COMM, EOC, ANNEX	12/08	300,000	Local Budget PDMAP FMAP EMPG & HLS
High	Stand by power for emergency needs	All	Both	HTOEM HTPD HTDPW	EOP EMERGENCY RESPONSE ANNEX	7/08	60,000	Local Budget PDMAP FMAP EMPG HLS
High	Back up water purification for shelter and utility outage	All	Both	HTOEM HEALTH	EOP SHELTER & PUBLIC HEALTH ANNEX	6/08	35,000	Local Budget PDMAP FMAP EMPG HLS

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_ Interlaken \_\_\_\_\_

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High	Develop mitigation steps to reduce damage and losses due to flooding through control of stormwater runoff and more efficient drainage and discharge to ocean waters	Norøasters, hurricanes, flooding caused by inland and coastal floods, storm surge	Both	Mayor and Council, Deal Lake Commission	Deal Lake Commission Stormwater Management Plan	2010	\$300, 000.00	Grants and local match from surrounding municipalities

Please attach additional pages as needed.



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Keansburg\_\_\_\_\_

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	1A) Enact hazard zoning ordinances.	Flooding	New	Mayor and Council Zoning Board Planning Board Code Officials	New zoning code plan	2010	Low (administrative)	Municipal Funds
High	1b) Specifically allow variances on foundations of newly built structures.	Flooding due to inland and coastal floods, hurricanes, nor easters and storm surges.	New	Mayor and Council Zoning Board Planning Board Code Officials	New zoning code plan	2010	Low (administrative)	Municipal Funds
High	Develop mitigation steps to reduce damage and losses due to flooding, through the control of water flow and a more efficient damage.	Flooding due to inland and coastal floods, hurricanes, nor easters and storm surges.	Both	Mayor and Council Borough Manager Water Plant Borough Engineer Public Works	Capital Improvement	2010-2015	High	Municipal Funds Available grants

*Please attach additional pages as needed.*



Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Create a outreach program to help resident prepare for disasters.	Flooding due to inland and coastal floods, hurricanes, nor easters and storm surges.	Both	Mayor and Council Borough Manager OEM Coordinators	Emergency Operation Plan  Capital Improvement	2010	Medium	Municipal Funds  FMAP
High	Develop a plan and seek funding for back-up electric in critical care facilities.	Flooding due to inland and coastal floods, hurricanes, nor easters and storm surges.	Both	Mayor and Council Borough Manager OEM Coordinators	Emergency Operation Plan  Capital Improvement	2010	Medium	Municipal Funds  FMAP
Low	Reduce water use for landscaping by imposing mandatory water use restrictions.	Droughts	Both	Mayor and Council Borough Manager OEM Coordinators Water Dept. Supervisor Public Works	Capital Improvement  Water Ordinances	2009	Low	Municipal Funds

*Please attach additional pages as needed.*

IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Keyport

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Fireman’s Park Bulkhead Extension from Bulkhead (Elevation 8.1) to Monmouth County Bridge on W. Front Street	Bayfront flooding; Storm wave action; Property damage	Both	Mayor & Council	Borough Supt. Of Engineering, OEM Coordinator, Borough Administrator	2012	\$2.9 million	Grants, possible NJDEP Coastal Funding, Local Matching
High	Raising of Green Grove Avenue at Chingarora Creek culvert crossing to alleviate storm flooding	Roadway flooding of a coastal evacuation route	Both	Mayor & Council	Borough Supt. Of Engineering, OEM Coordinator, Borough Administrator	2010	\$450,000	Grants

Please attach additional pages as needed.





IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Lake Como

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 1C Enact Hazard Zoning/Ordinances on height of homes in flood areas to place foundations above flood plain.	Flooding	Both	Mayor & Council	Boro Administrator Planning Board Building official Code Enforcement	2008	Low (mostly administrative work)	Budget
High	Develop mitigation steps to reduce damage and losses due to flooding caused by Inland & Coastal Floods (Hurricanes & Norøasters), which impact Lake Como. This would be achieved by controlling the water flow by a more efficient drainage system into the ocean. Specifically by utilizing pumps at Lake Como to control floodwaters.	Flooding due to inland and costal floods, Hurricanes and Norøasters.	Both	Mayor & Council	Office of Emergency Management in coordination with other local municipalities, county and state	2010	\$250,000 to \$300.000 for pump and piping to ocean. \$25,000 to \$30,000 for maintenance.	This would be a joint project between Lake Como and Belmar. We would be looking for Grants and Local match.

*Please attach additional pages as needed.*



## IMPLEMENTATION STRATEGY

Borough of Little Silver\_\_\_\_\_

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 4E: Develop mitigation steps to reduce damage and losses due to flooding caused by coastal flooding, hurricanes, nor'easters at the end of Little Silver Point Rd. (Howard's Beach) specifically by new outfall structure for storm drainage system	Flooding due to coastal storms, hurricanes, nor'easters, and storm surge	Both	Mayor and Council	Boro Administrator, Engineer, Storm Water Management Plan	2009-10	\$45,000.00	Local Budget, Available FEMA Grants
Medium	Action 4F: Reduce the possibility of flood damage by conducting a stream maintenance plan.	Flooding due to heavy rain events, hurricanes, nor'easters, and storm surge	Both	Mayor and Council	Boro Administrator, Engineer, Storm Water Management Plan	2009-10	\$100,000.00	Local Budget, Available FEMA Grants

*Please attach additional pages as needed.*



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) VILLAGE OF LOCH ARBOUR

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 4E. Develop mitigation steps to reduce damage and losses caused by inland and coastal floods, hurricanes and nor'easters at Deal Lake through control of water flow and more efficient drainage to the Atlantic Ocean by electrification of Deal Lake Flume gates. Note: The Village is a member of NFIP and has implemented a local warning system.	Flooding due to inland and coastal floods, hurricanes and nor'easters	Existing	Deal Lake Commission, DEP, area municipal governing bodiesø	Deal Lake Commission, Village Clerk, Office of Emergency Management in coordination with other local municipalities, county and state	2009	\$40,000	Grants and local funds of multiple jurisdictions
High	Action 4F. Reduce the possibility of flood damage by conducting stream maintenance and clearing sediment from Deal Lake and surrounding streams in the watershed.	Flooding due to inland and coastal floods, hurricanes and nor'easters	Existing	Deal Lake Commission, DEP, area municipal governing bodiesø county and state	See above	2012	Unknown	Grants and local funds of multiple jurisdictions
High	Action 4H. Reduce possibility of flooding at the eastern terminus of Deal Lake by implementing stormwater retention projects identified by the Deal Lake Commission in the Regional Stormwater Management Plan for the Deal Lake Watershed	Flooding due to inland and coastal floods, hurricanes and nor'easters	Existing	See above	See above	2015	Unknown	Grants and local funds of multiple jurisdictions

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

City of Long Branch

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Enact updated Hazard Zoning/ Ordinances.  Specifically to conform to FEMA's new FIRM program.	Flooding	Both	Mayor and Council	City Administration  Construction Official	2009	Low	Budget
High	Develop mitigation steps to reduce damage and losses due to flooding caused by Inland and Coastal Floods, Hurricanes and Nor'easters. Through control of water flow and through more efficient drainage to ocean and river. Specifically, install drainage and storm water pipe to control flood waters and increase strategic locations to control flow.	Flooding Due to Inland and Coastal Floods, Hurricanes and Nor'easters	Both	Mayor and Council	Office of Emergency Management in coordination with Department of Public Works	2010	Planning \$300,000  Pipe and inlets \$2.5 M  Recurring maintenance \$25,000	Grants



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High	Develop mitigation steps to reduce damage and losses due to flooding caused by excessive precipitation in areas surrounding City Hall from Broadway to Morris Avenue	Flooding Due to excessive precipitation and improper pipe sizing for increased development	Both	Mayor and Council	Office of Emergency Management Environmental Committee with other municipalities, county, state	2012	Planning \$65,000  Pipe and install \$200,000	Grants
Medium	Reduce the likelihood of flood damage by creating and executing a Stream & Lake Maintenance Plan	Inland and Coastal Flooding.	Both	State DEP Mayor and Council	Office of Emergency Management in coordination with Department of Public Works	2013	\$40M	Grants
Medium	Develop and implement a mitigation plan to control flash flooding condition under NJ Transit Railroad trestle near train station.	Poor elevation and complicated by poor drainage and improper pitch of roadways	Both	Mayor and Council	Office of Emergency Management in coordination with Department of Public Works	2015	Planning \$20,000  Pipe, pump and improved pitch of roadway \$350,000	Grants

\*\*\* The City of Long Branch is currently working with FEMA with the implementation of the new FIRM maps. The maps are expected to be finalized within the next few months and while we have attempted to document all foreseeable problems once the final maps are issued new projects may have to be added to this project.



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) MANALAPAN TOWNSHIP

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action #1 Holiday Lake Dredging Project. Temporary dewatering and removal of sediment, stream bank stabilization. Construction of an outlet control structure (sluice gate) between gate & existing headwall.	Flooding Nor'easters Hurricanes	Both	Township Committee Municipal Engineer	Storm Water Management Plan	2011	\$200,000.	Capital Budget & Available Grants

*Please attach additional pages as needed.*



## MANASQUAN BOROUGH IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **MANASQUAN BOROUGH**

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High	<b>Increase Public Warning Capabilities:</b> Upgrade existing AM Radio Station, increase warning siren coverage, implement Reverse911 system, install electronic sign system.	All Hazards	Both	Office of Emergency Management with approval from governing body	OEM / Local Emergency Planning Committee	2009	\$100k	Unknown
High	<b>Develop Residential Mitigation Strategies:</b> Develop specific hazard mitigation actions that home/business owners can undertake that will reduce property damage resulting from coastal storms.	Flooding, Wind and lightning Damage	New	Office of Emergency Management with approval from governing body	OEM / Local Emergency Planning Committee	2010	\$50k	Unknown

*Please attach additional pages as needed.*





MANASQUAN BOROUGH

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	<b>Develop Public Outreach Program:</b> Implement a public outreach program that includes hazard identification, public warning systems and mitigation activities that home/business owners can undertake.	All Hazards	New	Office of Emergency Management	OEM / Local Emergency Planning Committee	2009	\$0	n/a
High	<b>Develop Digital GIS Flood Inundation Mapping:</b> Develop inundation mapping based upon aerial topographic mapping and incorporating the latest SLOSH values from the US Army Corps.	Flooding	Existing	Office of Emergency Management with approval from governing body	OEM / Local Emergency Planning Committee	2010	\$60k	Unknown

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## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Township of Marlboro\_\_\_\_\_

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High	Action 2D: Establish a stream cleaning program for Deep Run and its tributaries into Old Bridge Township to its deposit into the New Jersey American Water facility in Old Bridge Township.	Flooding	Both	Engineering	Engineering Public Works	2010	\$500,000	Grants, Local Funds of Multiple Jurisdictions
High	Action 2D: Establish a stream cleaning program for the Yellow Brook and its tributaries up to Buck's Pond in Colts Neck Township.	Flooding	Both	Engineering	Engineering Public Works	2010	\$250,000	Grants, Local Funds of Multiple Jurisdictions
High	Action 2D: Establish a stream cleaning program for the Barclay Brook and its tributaries through Old Bridge Township to its deposit in the Matchaponix Brook.	Flooding	Both	Engineering	Engineering Public Works	2012	\$1,000,000	Grants, Local Funds of Multiple Jurisdictions

*Please attach additional pages as needed.*



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High	Action 2D: Establish a stream cleaning program for Melvins Brook and its tributaries through Manalapan Township to its deposit in McGellairds Brook.	Flooding	Both	Engineering	Engineering and Public Works	2012	\$2,000,000	Grants, Local Funds of Multiple Jurisdictions
High	Action 4A: Increase public awareness relating to the risks associated with severe weather events and the importance of personal preparedness.	All	Both	Administration	Administration Office of Emergency Management	2009	Minimal ó Administrative	Local Budget
High	Action 1D: Improve the Townships ability to alert and warn the public in the event of impending severe events.	All	Both	Office of Emergency Management	Administration Police Department Office of Emergency Management	2010	unknown	Local Budget

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# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **Borough of Matawan**

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Low	Replacement of the Lake Lefferts Dam	Flooding due to Inland flooding, Hurricanes and Nor'easters	Existing	Mayor/Council; Monmouth County Engineering Dept.	Monmouth County Freeholder and Mayor and Council	2012	\$16 Mil.	Monmouth County participation, 2004 NJDEP Dam Restoration Loan
Low	Replacement of the Lake Matawan Dam	Flooding due to Inland flooding, Hurricanes and Nor'easters	Existing	Mayor/Council; Monmouth County Engineering Dept.	Monmouth County Freeholder and Mayor and Council	2015	\$16 Mil.	Monmouth County participation, NJDEP Dam Restoration Loan.
Medium	Reduce flooding frequency of Aberdeen Road- downstream from Lake Lefferts- elevate roadway	Flooding due to Inland and Coastal flooding, Hurricanes and Nor'easters	Existing	Mayor/Council; Borough Engineer	Mayor and Council	2016	approx \$1 -2 Mil	State and Local

*Please attach additional pages as needed.*



MIDDLETOWN  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_MIDDLETOWN\_\_\_\_\_

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	Action 1C Enact Hazard Zoning/ Ordinances. Township recently amended ordinance for height flexibility. Height can be measured after the lot is filled to place foundations above flood plain  Note: Township is member of NFIP (1A) and has a Storm water Management Plan (1E)	100 year flood	Both	Planning and Building Department	Planning and Zoning Department	2008	Low	Local funds
	Within the flood hazard areas, raise dwelling units one foot above base flood elevation	100 year flood	Existing	State DEP and Planning Department	Construction and Planning Department	2015	\$ 30 M	Grants

*Please attach additional pages as needed.*



## MIDDLETOWN

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
	Action 4F Conduct a routine stream and ditch maintenance program in flood prone areas	Mosquito Control	<i>Existing</i>	In conjunction with Monmouth County Mosquito Control Commission- Regular program of Stream and Ditch Maintenance	Public Works	2010	Low	Local and County Funds
	Wetlands Maintenance and Removal of invasive plant species	Flooding and Fire Hazards	<i>Existing</i>	Mayor and Township Committee	Public Works and Fire Department	2012	\$ 1 M	Grants
	Maintenance and upgrade of storm water management structures and facilities	Flood and Mosquito Control	<i>Both</i>	Mayor and Township Committee	Public Works and Engineering Department	2015	\$ 5 M	Grants

*Please attach additional pages as needed.*



# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) MILLSTONE TOWNSHIP

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
HIGH	Develop mitigation steps to reduce damage and losses due to flooding through control of storm water runoff and more efficient drainage and discharge to five major streams	Severe thunderstorms, hurricanes, Nor'easters, Storm Surge	Both	Mayor and Township Committee and OEM Coordinator	OEM Coordinator	2011	\$400,000	Grants both State and Federal and some in-kind services
HIGH	Develop mitigation steps to reduce significant damage from losses to do wild fires.	Wild Fires, thunderstorms, fallen electrical wires, plane crashes, and motor vehicle accidents	Both	Mayor and Township Committee and OEM Coordinator	OEM Coordinator	2011	\$200,000	Grants both from State and Federal and some in-kind services

*Please attach additional pages as needed.*



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) BOROUGH OF MONMOUTH BEACH

This form should **ONLY** be completed **AFTER** your jurisdiction has considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable (completed in February 2008), selected a subset of the actions that your jurisdiction would like to implement, and prioritized those actions using the Prioritization of Actions worksheet. This worksheet is intended to document how you will implement your selected actions and is **REQUIRED** for each municipality participating in the planning process. You should complete this worksheet **AFTER** the Prioritization of Actions worksheet. This worksheet must be received by URS no later than April 30, 2008 in order to be included in the Plan (send to: Anna Foley, URS, 201 Willowbrook Blvd., 3<sup>rd</sup> Floor, Wayne, NJ 07470-7005. Phone: 973-785-0700 ext. 339. Fax: 973-812-0985. Email: [anna\\_foley@urscorp.com](mailto:anna_foley@urscorp.com)). A Working Session of the Core Planning Group will be held in April 2008 where the URS Team will walk you through completion of this form and will be available to answer questions.

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HIGH	Install drainage to relieve flooding from flood prone areas. Example; Johnson St./Anderson St./Drew Ct./Valentine St.	High Tide Flooding Northeast Storms Flash Flooding due to heavy rains. Hurricane. Snow Event	Existing	Local Government	Storm Water Management Plan adopted as a local Ord.	2008-2012	\$500,000.00	Local Funding in addition to available grants

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_Neptune City\_\_\_\_\_

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High	Action 2.C Implement a public awareness campaign on the use of grounded electric outlets and surge protectors	Lighting Strikes	Both	Office of Emergency Management	LEPC	2009	\$200	Local budget
High	Action 11.B Implement a public awareness campaign on driving in winter storms and handling related health effects	Winter storms	Both	Office of Emergency Management	LEPC	2009	\$200	Local Budget
Medium	Action 2.C Develop a plan and seek funding for backup electric for shelters	All	Both	Mayor and Council	LEPC	2009	\$100,000	Grants and local budget

*Please attach additional pages as needed.*





NEPTUNE TOWNSHIP  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction) TOWNSHIP OF NEPTUNE

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High	Identify outfalls to Category One waterways and other receiving bodies, retrofit with Tideflex or equivalent and install stormceptors prior to discharge to waterbody	Flooding Environmental Wind Storm	Existing Emergency Management Existing Public Roadways	Township Committee Engineering	Township Committee	6/9	+/-750,000	Local/State/Federal
High	Seek funding for dredging of Shark River. Coordination with adjoining municipalities.	Flooding Environmental Storm	Existing Public Marina Existing Roadways Emergency Management	Township Committee Engineering	Township Committee	Current-ongoing	Unknown at this time	Local/State
High	Seek funding for replacement of bulkhead along Shark River	Flooding Storm Environmental	Existing Roadways Existing Public Marina Emergency Management	Township Committee Engineering Public Works	Township Committee	Current-ongoing	3.5 million	Local/State

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NEPTUNE TOWNSHIP

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High	Implement GIS Based Hazard Data on the Neptune Website and through publications made available to the public	Flooding Wind Storm	Building Construction	Township Committee Building Construction	Township Committee Zoning	9/09	Unknown at this time	Local
High	Encourage Public to build/modify to be more disaster resistant building. Further educate construction department to aid public in same	Flooding Storm Wind Hurricane	Building Construction	Township Committee Building Construction Zoning	Township Committee Building Construction	9/09	Unknown at this time	Local
High	Include in Neptune Day a public awareness information booth. Preparation of informational packets for safety, mitigation, evacuation routes and available resources	Flood Wind Storm	Township Committee Building Construction	Building Construction	Clerk	3/09	Unknown at this time	Local

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NEPTUNE TOWNSHIP

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Medium	Preparation of study of streams and capacity and prioritize. Preparation and analysis of access and plan to desnag/desilt streams and waterways	Flooding Storm Environmental	Township Committee Construction	Township Committee Engineering	Township Committee	9/10	Unknown at this time	Local/State
Medium	Seek funding for Bank Stabilization along Shark River Prepare plan and specifications for Bank Stabilization location, extents and cross-section	Flooding Storm	Township Committee Existing Public Roadways Existing Emergency Management	Township Committee	Township Committee	3/10	Unknown at this time	Local/State
Medium	Seek funding for lake dredging, preparation of plans and specifications for dredging of lake Fletcher/Wesley/Alberta	Flooding Storm Environmental	Township Committee	Township Committee Environmental	Township Committee	12/10	Unknown at this time	Local/State

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NEPTUNE TOWNSHIP

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Medium	Preparation of plans and specifications for Construction of Salt Dome.	Storm Environmental	Existing Emergency Management	Township Committee Engineering	Township Committee	9/08	<100,000.00+/-	Local
Low	Preparation of Hazard Overlay Zones	Storm Flooding	Existing Emergency Management Existing Zoning Existing Construction Dept	Township Committee	Township Committee Zoning	12/10	Unknown at this time	Local
Low	Study to determine extent of beach replenishment at Ocean Grove. Preparation of Plans and specifications for same	Flooding Storm	Existing Emergency Management Existing Public Boardwalk	Township Committee Engineering	Township Committee	12/12	Unknown	Local/State/FEMA

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OCEAN TWP  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Ocean Twp

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High	Set up detention Pond and berm system to prevent future flooding for Popular Brook	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami	Both	Twp Manager, DPW, OEM, Twp Engineer, Army Corp, State DEP	To be included in Storm water Management Plan and flood plain ordinance	2009-2010	5 million dollars	Federal, Green Acres (State), County, Municipal
High	Widen coverts under roadways in three different streets for Popular Brook	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami	Both	Twp Manager, DPW, OEM, Twp Engineer, Army Corp, State DEP, County Bridge Dept, State DOT	To be included in Storm water Management Plan and flood plain ordinance	2009-2010	3 million dollars	Federal, Green Acres (State), County, Municipal
High	Build a detention pond to gather more water and prevent large amounts of water to move downstream in Whalepond Brook	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami	Both	Twp Manager, DPW, OEM, Twp Engineer, Army Corp, State DEP	To be included in Storm water Management Plan and flood plain ordinance	2011-2012	5 million dollars	Green Acres (State), County, Municipal
High	Widen coverts under roadways in three different streets for Popular Brook	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami	Both	Twp Manager, DPW, OEM, Twp Engineer, Army Corp, State DEP, County Bridge Dept, State DOT	To be included in Storm water Management Plan and flood plain ordinance	2011-2012	3 million dollars	Green Acres (State), County, Municipal

*Please attach additional pages as needed.*



OCEAN TWP

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
Medium	Planning and Funding Improvements to Telecomm and Electrical Systems at Critical Facilities including Facilities used For EOC and as local shelters	Hurricane, Tropical Storm, Norøaster, Winter Storm, Flood, Storm Surge, Tsunami, Hail Storm, Wildfire	New	Twp Manager, DPW, OEM	Through OEM annexø and emergency services procedures	2010	\$500,000.00	Grant and Local Budget

*Please attach additional pages as needed.*



## OCEANPORT IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **Borough of Oceanport**

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
<b>Priority 1- High- Phase 1</b>	Infrastructure-Critical Facility- Relocation of Boro Hall and DPW  Acquire property for relocation	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	Existing-Old Boro Hall; DPW New- Possible old site for open space	Mayor/Council; Boro Engineer	Mayor and Council/Commitee or Commission	2010	Under \$1 Mil.	Capital Improvement; Open Space Fund; State Grants
<b>Priority 1- High- Phase 2</b>	Infrastructure-Critical Facility- Relocation of Boro Hall and DPW  Construction of New Facility	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	Existing-Old Boro Hall; DPW New- Possible old site for open space	Mayor/Council; Boro Engineer	Mayor and Council/Commitee or Commission	2014	Est. \$8 Mil.	Capital Improvement; Open Space Fund; State Grants; Federal Grants/Progs.
<b>Priority 2- Medium</b>	Remediation of Turtle Mill Floodway -Stream Cleaning	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	State and County Roadways in three municipalities	Boro Engineer	Boro Ord. 36 Flood Damage Prevention	2010	Under \$1 Mil	State, County and Local
<b>Priority 3- Med- Phase 1</b>	Infrastructure- Examination of Storm Water System, Port-au- Peck Section	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	County and Local Roadways	Boro Engineer	Boro Ord. 36 Flood Damage Prevention/ Storm Water Management	2010	\$150,000.00	Capital Improvement; State Grants; Federal Grants/ Programs

*Please attach additional pages as needed.*



OCEANPORT

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<b>Priority 3-</b> Med- Phase 2	Infrastructure- Remediation of Storm Water System, Port-au-Peck Section	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	County and Local Roadways	Boro Engineer	Boro Ord. 36 Flood Damage Prevention /Storm Water Management	2012	TBD based on above Phase 1 findings	Capital Improvement; State Transport Grants; Federal Grants/Progs.
<b>Priority 4-</b> Low	Infrastructure- Remediation Roadway Flooding- Grading, Elevating, or Back flow preventers	Hurricane & T.S-H Norøaster-H Storm Surge-M Flood-L	County and Local Roadways	Boro Engineer	Boro Ord. 36 Flood Damage Prevention / Storm Water Management	2015	\$3-5 Mil	State, County and Local Funding

*Please attach additional pages as needed.*



# **IMPLEMENTATION STRATEGY 2008**

## **Borough of Oceanport**

### **Priority One- Critical Facilities** Moving of Borough Hall and DPW out of the flood plain

Phase One- Acquire Property

Phase Two- Construction of New Complex

### **Priority Two-Remediation of Turtle Mill Floodway**

Accepts water from three towns Oceanport, West Long Branch, Eatontown

Recognized Floodway by FEMA, Panel 0192F Map 34025C

Effects State Highway 36, Cty 537 and 11 (Eatontown Blvd and Oceanport Ave.)

### **Priority Three- Roadway Flooding Problems:**

Phase One- Examination of Storm Water System, Port-au-Peck Section

Looking for collapsed pipe, undersize pipes, blockages

Phase Two- Remediation of Storm Water System, Port-au-Peck Section

Corrections, replacements of pipe within system

Install Flow Back preventers on tidally influenced outfall pipes

### **Priority Four- Elevation, re-grading of**

Oceanport Ave (County Route 11)

Between Summerfield Ave and Høway 36

Between Main St and Riverside Ave.

Eatontown Blvd. (County 537) Between H/way 36 and Crescent Pl.

Monmouth Blvd. Between Myrtle and Adrain

Monmouth Blvd. (County 33), Between Myrtle and Shrewsbury

Seneca Pl. and Itaska

Gooseneck Pt. Rd

Shore Rd

Cayuga Ave.

*Please attach additional pages as needed.*



IMPLEMENTATION STRATEGY

Borough of Red Bank \_\_\_\_\_

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High	Enact Hazard Zoning/ Ordinances. Specifically allow variances on height of homes in flood areas to place foundations above flood plain	Flooding	Both	Mayor and Council	Boro Administrator Planning Board Code Enforcement	2008	Low (administrative)	Budget
High	Develop Plans for a Community Emergency Alerting System  Replacement of existing outdated system	All	Both	Mayor and Council Police/Fire/OEM	Boro Administrator Police/Fire/ OEM	2010	Unknown	Budget
High	Develop plans and Mitigation steps to reduce or eliminate flooding and erosion to Marine Park	Flooding Due to Coastal Floods, Hurricanes and Norøasters	Both	Mayor and Council	Boro Administrator T & M Associates Private Contractor	2010	Unknown	Grants, Local Funds

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Medium	Reduce the possibility of flood damage by conducting a Storm Management Maintenance Plan and Cleaning and Maintaining the Existing System	All	Both	Mayor and Council	Boro Administrator DPW Environmental Committee	2009	Unknown	Grants/ Budget
Medium	Planning for and Funding Improvements to Infrastructure System of the Boro Water and Sewer System	All	Both	Mayor and Council	Boro Administrator T & M Associates DPW	2009	Unknown Engineering Fees Private Contractors DPW	Local Budget
Medium	Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine existing level of protection and implementing recommendations	All	Both	Mayor and Council	Boro Administrator T & M Associates Various Department Heads	2009 for evaluation; Implementation 2012	unknown	Budget

*Please attach additional pages as needed.*



RUMSON  
**IMPLEMENTATION STRATEGY**

BOROUGH OF RUMSON

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1) Medium	Implement early flood warning system for Shrewsbury and Navesink Rivers as a shared service with other towns along the rivers	Flooding Norøaster Hurricane Storm surge	New	Mayors and Council members of all river towns; Monmouth University; Stephens Institute of Technology	Emergency Operations Plan	2009-2010	Low	Grants and local match
2) Medium	Enact new FEMA flood maps as part of planning and zoning regulations	Flooding Norøaster Hurricane Storm surge	New	Mayor and Council Planning Board Zoning Board	Master Plan	2009	Low; Administration	Neutral
3) Medium	Implement stream and pond cleaning to speed draining of flood prone areas and follow up with regular maintenance	Flooding Heavy rain Norøaster Hurricane Storm surge	Existing	Mayor and Council Public Works Monmouth County Mosquito Commission	Master Plan	Ongoing	Low	Budget, Borough and County
4) <b>HIGH</b>	Upgrade shelter facility located at Rumson Fair Haven Regional High School, including emergency power facility	Flooding Norøaster Hurricane Extreme heat Storm surge Winter storm	Existing	Mayor and Council Board of Education O.E.M.	Shelter Plan	2010	250k	Grant; Municipal Budget; School Budget

*Please attach additional pages as needed.*



## RUMSON

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5) <b>HIGH</b>	Continue to maintain current warning systems that are already operational including website, AM radio, Reverse 911 calling system and emergency siren alerting system	Norøaster Hurricane Flooding Storm surge Extreme heat Winter storm	Existing	Mayor and Council O.E.M. Director Police	Emergency Operations Plan	Ongoing	Est. 10-15k annually; all systems less than 2 years old	Municipal Budget; Grants
6) Medium/ High	Tree maintenance of shade trees along streets in community; increase effectiveness of Public Works to clear trees in event of storm	Wind and rain events; Winter storms	Existing	Mayor and Council O.E.M. Director Public Works	Public Works mandate	Ongoing equipment purchase in 2009-2010	50k for used equipment; could be shared service	Grants; Municipal and County budgets

*Please attach additional pages as needed.*



# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Sea Bright\_\_\_\_\_

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High	Develop a storm, flood and wind action plan which will include, police, fire and public works volunteer groups, to allow Sea Bright to be methodically protected during a storm or flood event.	Flood Wind Storm	Existing Emergency Management	Mayor & Council; Emergency Management	Mayor & Council	12/08	\$5000	Local
High	Explore and implement a project to elevate private homes in flood prone areas with State or Federal funds.	Flood Storm	Both	Construction Office	Zoning	2015	Not Known	State Federal

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# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Sea Bright\_\_\_\_\_

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High	Support and create a hazardous material response team including training and equipment to protect by the citizens of Sea Bright and the environment, rather than relying on state, federal or county agencies.	Storm Environmental	Existing Emergency Management	Emergency Management	Mayor & Council	12/09	\$25000	Local State
High	Develop a town wide strategy to aid both local, county, state and federal officials to provide the replacement of sand along the Atlantic Ocean Beach for protection of both the NJSH Route 36 corridor, local residences, businesses and bulkheads.	Storm Environmental	Mayor & Council	Mayor & Council	Mayor & Council	Ongoing	Not Known	Local State

*Please attach additional pages as needed.*



# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Sea Bright\_\_\_\_\_

This form should **ONLY** be completed **AFTER** your jurisdiction has considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable (completed in February 2008), selected a subset of the actions that your jurisdiction would like to implement, and prioritized those actions using the Prioritization of Actions worksheet. This worksheet is intended to document how you will implement your selected actions and is **REQUIRED** for each municipality participating in the planning process. You should complete this worksheet **AFTER** the Prioritization of Actions worksheet. This worksheet must be received by URS no later than April 30, 2008 in order to be included in the Plan (send to: Anna Foley, URS, 201 Willowbrook Blvd., 3<sup>rd</sup> Floor, Wayne, NJ 07470-7005. Phone: 973-785-0700 ext. 339. Fax: 973-812-0985. Email: [anna\\_foley@urscorp.com](mailto:anna_foley@urscorp.com)). A Working Session of the Core Planning Group will be held in April 2008 where the URS Team will walk you through completion of this form and will be available to answer questions.

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Develop a town wide strategy to aid both local, county, state and federal officials to provide the reconstruction of bulkheads along the Shrewsbury River for protection of both the NJSH Route 36 corridor, local residences, businesses and bulkheads	Storm Environmental	Mayor & Council	Mayor & Council	Mayor & Council	Ongoing	Not Known	Local State
Medium	Encourage citizens and businesses when re-building or modifying their buildings to provide underground utilities in order to promote utilities that are generally not prone to damage during high winds and flooding incidents.	Flood Wind Storm	Mayor & Council Building Department	Building Department	Ongoing	Not Known	Not Known	Municipal FEMA

*Please attach additional pages as needed.*





# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Sea Bright\_\_\_\_\_

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Medium	Include in Sea Bright Day a public education and awareness component for hazard mitigation, citizen safety, include mitigation techniques highlighting our available resources.	Flood Wind Storm	Mayor & Council Clerk	Mayor & Council Clerk	Clerkø Office	10/20/08	\$500	Municipal
Medium	Provide additional support and training for the Building Department on wind and flood resistance structures, including information on hurricane clips, wind shutters, beyond the minimum Building Code.	Wind Flood	Building Department	Building Department	Mayor	12/2009	Not Known	Municipal

*Please attach additional pages as needed.*

**IMPLEMENTATION STRATEGY**

(Name of Jurisdiction) SEA GIRT, NEW JERSEY

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High	Enact Hazard Zoning/ Ordinances. Specifically allow variances on height of homes in flood areas to place foundations above flood plain	Flooding	Both	Mayor and Council	Boro Administrator Planning Board Code Enforcement	2008-09	Low (administrative)	Budget
High	Develop mitigation steps to reduce damage and losses due to flooding caused by Inland and Coastal Floods, Hurricanes and Nor'easters at local ponds (Wreck Pond ) through control of water flow and through more efficient drainage to ocean. Specifically pumps at Wreck Pond to Control Flood waters and use of weirs in strategic locations to control flow ( all done in conjunction with Spring Lake)	Flooding Due to Inland and Coastal Floods, Hurricanes and Nor'easters	Both	Mayor and Council	Office of Emergency Management in coordination with other local municipalities, county and state	2010-11	Planning \$200k Pumps \$1M, weirs tbd Recurring maintenance \$30k	Grants and local match

*Please attach additional pages as needed.*



High	Reduce the possibility of flooding at Wreck Pond by implementing stormwater retention projects identified by the Wreck Pond Regional Stormwater Management Committee in Subregion 12 watershed	Flooding Due to Inland and Coastal Floods, Hurricanes and Nor'easters	Both	Mayor and Council	Office of Emergency Management Environmental Committee with other municipalities, county, state	2012-3	Unknown	Grants, Local Funds of Multiple Jurisdictions
Medium	Reduce the possibility of flood damage by conducting a Stream Maintenance Plan and cleaning out sediment at Wreck Pond and Black Creek ó will need to work with Spring Lake, SL Heights and Wall on this	Inland and Coastal Flooding. (Has additional impact on health and beach environment)	Both	State DEP Mayor and Council	Office of Emergency Management Boro Administrator Environmental Committee	2015	\$30M	Grants
Medium	Planning for and Funding Improvements to Communications and Electrical Systems at Critical Facilities including Facilities used For EOC and as local shelters	All	Both	Mayor and Council	Boro Administrator	2009	\$100k est for Emergency Power and Telecomm upgrades	Local Budget
Medium	Reduce the possibility of damage to emergency facilities by conducting an evaluation to determine existing level of protection, particularly to flooding, and implementing recommendations	All	Both	Mayor and Council	Local Emergency Planning Committee	2009 for evaluation; Implementation 2012	unknown	Budget

*Please attach additional pages as needed.*



## SHREWSBURY BOROUGH IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Shrewsbury Borough\_\_\_\_\_

This form should **ONLY** be completed **AFTER** your jurisdiction has considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable (completed in February 2008), selected a subset of the actions that your jurisdiction would like to implement, and prioritized those actions using the Prioritization of Actions worksheet. This worksheet is intended to document how you will implement your selected actions and is **REQUIRED** for each municipality participating in the planning process. You should complete this worksheet **AFTER** the Prioritization of Actions worksheet. This worksheet must be received by URS no later than April 30, 2008 in order to be included in the Plan (send to: Anna Foley, URS, 201 Willowbrook Blvd., 3<sup>rd</sup> Floor, Wayne, NJ 07470-7005. Phone: 973-785-0700 ext. 339. Fax: 973-812-0985. Email: [anna.foley@urscorp.com](mailto:anna.foley@urscorp.com)). A Working Session of the Core Planning Group will be held in April 2008 where the URS Team will walk you through completion of this form and will be available to answer questions.

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Upgrade storm water infrastructure on Haddon Ave	Flooding	Existing	Borough Engineer	See attached	2009/10	\$75,000	Grants
High	Upgrade storm water infrastructure on Monroe Ave	Flooding	Existing	Borough Engineer  Monmouth County NJDEP oversight		2009/10	\$150,000	Grants
High	Upgrade storm water infrastructure on Trafalgar Pl	Flooding	Existing	Borough Engineer		2009/10	\$100,000	Grants

*Please attach additional pages as needed.*



SHREWSBURY BOROUGH

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? <i>(indicate: Existing, New, or Both)</i>	Who is responsible for implementing the action? <i>(List Title, Department, or Office – please do not use names)</i>	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Stream Management	Flooding	Existing	Borough Engineer/ DPW  NJDEP permits required	Implementation determined by NJDEP	2009/10		Grants
High	Upgrade storm water infrastructure on Newman Springs Rd	Flooding	Existing	County and Borough Engineer		2009/10		Grants
Medium	CERT programs and Public Outreach including potable water conservation and drought limitations	Various	Existing	OEM	Emergency Operations Plan	2009/10	\$10,000	Grants

*Please attach additional pages as needed.*



# IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Shrewsbury Township\_\_\_\_\_

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
Medium	Action 2.C Planning for funding and improvements to Telecommand Electrical Systems at Critical facilities including EOC and local shelters.	All	Both	Mayor and Council	-	2009	High	Budget
Medium	Action 1.E Develop stormwater management plan.	Health and Environment	Both	Mayor and Council	-	2008	Medium	Budget

*Please attach additional pages as needed.*



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Spring Lake Heights

This form should ONLY be completed AFTER your jurisdiction has considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable (completed in February 2008), selected a subset of the actions that your jurisdiction would like to implement, and prioritized those actions using the Prioritization of Actions worksheet. This worksheet is intended to document how you will implement your selected actions and is REQUIRED for each municipality participating in the planning process. You should complete this worksheet AFTER the Prioritization of Actions worksheet. This worksheet must be received by URS no later than April 30, 2008 in order to be included in the Plan (send to: Anna Foley, URS, 201 Willowbrook Blvd., 3<sup>rd</sup> Floor, Wayne, NJ 07470-7005. Phone: 973-785-0700 ext. 339. Fax: 973-812-0985. Email: [anna\\_foley@urscorp.com](mailto:anna_foley@urscorp.com)). A Working Session of the Core Planning Group will be held in April 2008 where the URS Team will walk you through completion of this form and will be available to answer questions.

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 1C: Explore the need for hazard zoning and high risk hazard land use ordinances Raising Utilities, Exceeding Height requirements	Flooding, Norø Easterø, Hurricane, Storm surge, Heavy Rain event	Both	Mayor and Council	Municipal Code Book Master Plan	2009/2010	Minimal	Local Budget
High	Action 4D: Continue to implement the best mitigation practices for flood plain areas.	Flooding Norø Easterø, Hurricane, Storm surge, Heavy Rain event	Both	Mayor and Council	Municipal Code Book Master Plan	2009/2010	Unknown	Local Budget/ Available Grants
High	Action 2B: Create a mitigation outreach program to prepare residents for disaster	Flooding Norø Easterø, Hurricane, Storm surge, Heavy Rain Drought extreme heat winter storm	N/A	Mayor and Council	No existing planning Mechanism	2010/2011	Unknown	Local Budget Grants with local match

*Please attach additional pages as needed.*



## Spring Lake Monmouth County NJ

### IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **Spring Lake Monmouth County NJ**

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 1C Enact Hazard Zoning/ Ordinances. Specifically allow variances on height of homes in flood areas to place foundations above flood plain	Flooding	Both	Mayor and Council	Boro Administrator Planning Board Code Enforcement	2008	Low (administrative)	Budget
High	Action 4E Develop mitigation steps to reduce damage and losses due to flooding caused by Inland and Coastal Floods, Hurricanes and Norøasters at local ponds (Wreck Pond and Lake Como) through control of water flow and through more efficient drainage to ocean. Specifically pumps at Wreck Pond and/or Lake Como to Control Flood waters and use of weirs in strategic locations to control flow	Flooding Due to Inland and Coastal Floods, Hurricanes and Norøasters	Both	Mayor and Council	Office of Emergency Management in coordination with other local municipalities, county and state	2010	Planning \$200k Pumps \$1M, weirs tbd Recurring maintenance \$30k	Grants and local match
Medium	Action 4F Reduce the possibility of flood damage by conducting a Stream Maintenance Plan and cleaning out sediment at Wreck Pond and Black Creek	Inland and Coastal Flooding. (Has additional impact on health and beach environment)	Both	State DEP Mayor and Council	Office of Emergency Management Boro Administrator Environmental Committee	2015	\$30M	Grants

*Please attach additional pages as needed.*





## Spring Lake Monmouth County NJ

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High (Highest Priority )	Action 4H Reduce the possibility of flooding and increase early warning of potential flood conditions at Wreck Pond by implementing stormwater retention projects identified by the Wreck Pond Brook Regional Stormwater Management Plan (RSWMP) Committee in Subregion 12 watershed and by implementing sensor systems (preferably USGS) in the watershed	Flooding Due to Inland and Coastal Floods, Hurricanes and Nor'easters	Both	Mayor and Council	Office of Emergency Management Environmental Committee with other municipalities, county, state	2012	Unknown	Grants, Local Funds of Multiple Jurisdictions
Medium	Action 2C Planning for and Funding Improvements to Telecomm and Electrical Systems at Critical Facilities including Facilities used For EOC and as local shelters	All	Both	Mayor and Council	Boro Administrator	2009	\$100k est for Emergency Power and Telecomm upgrades	Local Budget
Medium	Action 14 A Reduce the possibility of damage to emergency facilities by conducting a n evaluation to determine Existing level of protection, particularly to flooding, and implementing recommendations	All	Both	Mayor and Council	Local Emergency Planning Committee	2009 for evaluation; Implementation 2012	unknown	Budget

*Please attach additional pages as needed.*

**IMPLEMENTATION STRATEGY****TINTON FALLS**

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High	Action 1.E ó Develop a storm water management plan that includes subdivision regulations to control run-off; both for flood reduction and to minimize saturated soils on steep slopes that can cause landslides. <i>Sycamore Ave. storm drainage Water St. erosion (Pine Brook)</i>	Promote disaster resistant development	Both	Mayor and Council	Administrator Planning Board Boro. Engineer	2008	Low (administrative)	Local Funds
High	Action 11.C ó Ice and windstorm-resistant trees and landscaping practices to reduce related hazards <i>Throughout Municipality</i>	Reduce the possibility of damage and losses due to winter storms	Both	Mayor and Council	Administrator OEM Code Enforce. Public Works	2009	Unknown	Budget
High	Action 9.B ó Locally identify and map specific areas of potential slope failure and limit future development in these areas. <i>Water Street into Pine Brook</i>	Reduce the possibility of damage and losses due to landslides	Both	Mayor and Council	Administrator OEM Boro. Engineer Environmental Committee	2008	Low (administrative)	Local Funds

*Please attach additional pages as needed.*



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High	Action 4.F - Conduct a routine maintenance program and seek financial assistance to clean out stream segments with heavy sediment deposits. <i>Whale Pond Brook</i> <i>Jumping Brook</i>	Reduce the possibility of damage& losses due to flooding by hurricanes, severe storms, Nor'easters	Both	Mayor and Council	Administrator Boro. Engineer Environmental Committee	2009	Unknown	Budget
High	Action 4.G ó Develop specific mitigation solutions for flood-prone roadways and intersections under the leadership of NJDOT. Develop a work plan for when sites will be surveyed and what role Borough can play in selection and implementation of mitigation activities. <i>County Hwy 13A</i> <i>County Hwy 16, Hope Road</i>	Reduce the possibility of damage& losses due to flooding by hurricanes, severe storms, Nor'easters	Both	Mayor and Council	NJDOT County Hwy. Administrator Boro. Engineer Environmental Committee	2009	Low (administrative)	Budget
High	Action 4.H ó Implement identified storm water recharge, rate or volume projects identified in Regional Storm water Management Plans to decrease öflashö in streams during/after storm events	Reduce the possibility of damage& losses due to flooding by hurricanes, severe storms, Nor'easters	Both	Mayor and Council	Administrator Boro. Engineer Environmental Committee.	2010	Unknown	Budget

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Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 9.D Consider adopting a steep slope ordinance, if one is not already in place, to regulate development on these higher risk areas. <i>Water Street/Jumping Brook</i>	Reduce the possibility of damage and losses due to landslides.	Both	Mayor and Council	Administrator Boro. Engineer Environmental Committee.	2009	Low (administrative)	Local Funds
Medium	Action 2.B - Create a mitigation outreach program that helps residents prepare for disasters	Build and support local capacity to enable the public to prepare for, respond to and recover from disasters.	Both	Mayor and Council	Administrator OEM	2009	Unknown	Budget Grants
Medium	Action 2.E ó Support and Fund Community Response Team (CERT) programs that also include a mitigation component  NOTE: Borough has existing CERT Program	Build and support local capacity to enable the public to prepare for, respond to and recover from disasters	Both	Mayor and Council	Administrator OEM CERT	2009	Unknown	Budget Grants

*Please attach additional pages as needed.*



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Medium	Action 10.A ó In consultation with NJFFS, local fire service, develop mapping of wildland/urban interface areas.	Reduce the possibility of damage and losses due to wildfires	Both	Mayor and Council NJFFS	NJFFS Administrator OEM Fire Service	2010	Unknown	Budget Grants
Medium	Action 10.C - In consultation with NJFFS, local fire service, review local EOPs for possible wildfire components regarding Fire-Rescue, Alert Warning and Communications	Reduce the possibility of damage and losses due to wildfires	Both	Mayor and Council NJFFS	NJFFS Administrator OEM Fire Service	2010	Unknown	Budget Grants
Medium	Action 10.E ó Initiate a public outreach program for homeowners to reduce the possibility of damage and losses due to wildfires	Reduce the possibility of damage and losses due to wildfires	Both	Mayor and Council NJFFS	NJFFS Administrator OEM Fire Service	2010	Unknown	Budget Grants
Medium	Action 10.I ó Mitigation for streets. Highways and roads that provide key fire access and fuel breaks.	Reduce the possibility of damage and losses due to wildfires	Both	Mayor and Council NJFFS	NJFFS Administrator OEM Fire Service	2010	Unknown	Budget Grants

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Low	Action 11.A ó Promote (or purchase, for critical facilities) NOAA weather radios.	Reduce the possibility of damage and losses due to winter storms	Both	Mayor and Council	Administrator OEM	2010	Unknown	Budget Grants
Low	Action 11.B ó Educate residents about driving in winter storms and handling winter-related health effects.	Reduce the possibility of damage and losses due to winter storms	Both	Mayor and Council	Administrator OEM	2010	Unknown	Budget Grants



## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Union Beach\_\_\_\_\_

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1	Raise the Roadway Elevation of the Flood Prone Section of Florence Avenue	Reduces the possibility of damage and losses due to flooding.	Existing and new infrastructure; Emergency Services	Borough Engineer	Capital Improvement	2010	\$315,000	State Federal County Local
2	Raise the Roadway Elevation of the Flood Prone Section of Jersey Avenue	Reduces the possibility of damage and losses due to flooding.	Existing and new infrastructure; Emergency Services	Borough Engineer	Capital Improvement	2012	\$250,000	State Federal County Local
3	Raise the Roadway Elevation of the Flood Prone Intersection of Spruce Street and Center Street	Reduces the possibility of damage and losses due to flooding.	Existing and new infrastructure; Emergency Services	Borough Engineer	Capital Improvement	2010	\$285,000	State Federal County Local

*Please attach additional pages as needed.*





## IMPLEMENTATION STRATEGY

(Name of Jurisdiction) \_\_\_\_\_Borough of Union Beach\_\_\_\_\_

This form should **ONLY** be completed **AFTER** your jurisdiction has considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable (completed in February 2008), selected a subset of the actions that your jurisdiction would like to implement, and prioritized those actions using the Prioritization of Actions worksheet. This worksheet is intended to document how you will implement your selected actions and is **REQUIRED** for each municipality participating in the planning process. You should complete this worksheet **AFTER** the Prioritization of Actions worksheet. This worksheet must be received by URS no later than April 30, 2008 in order to be included in the Plan (send to: Anna Foley, URS, 201 Willowbrook Blvd., 3<sup>rd</sup> Floor, Wayne, NJ 07470-7005. Phone: 973-785-0700 ext. 339. Fax: 973-812-0985. Email: [anna\\_foley@urscorp.com](mailto:anna_foley@urscorp.com)). A Working Session of the Core Planning Group will be held in April 2008 where the URS Team will walk you through completion of this form and will be available to answer questions.

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
4	Relocation of Harris Garden Fire Co. Building to a site outside of Flood Prone Area.	Reduces the possibility of damages to Emergency Facilities due to flooding	Emergency Services	Mayor and Borough Council Office of Emergency Management Fire Department	Capital Improvement	2015	\$400,000	State Federal County Local
5	Raise the Elevation of the Flood Prone Scholer Park Parking Lot.	Reduces the possibility of damage and losses due to flooding	Existing and New infrastructure; Emergency Services Recreation	Borough Engineer	Capital Improvement	2010	\$210,000	State Federal County Local
6	Maintenance of the existing Shore Protection Features (Bulkhead, Beach Area)	Reduces the possibility of damage and losses due to Coastal Erosion and Wave Action.	Existing and New Infrastructures; Emergency Services Recreation	Borough Engineer; Public Works	Capital Improvement	Once Every Two Years	\$75,000 Annually	State Federal County Local

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(Name of Jurisdiction) Borough of Union Beach

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7	Cleaning and Maintenance of the Existing Storm Drains and Inlets	Reduces the Possibility of Damages and Losses Due to Flooding	Existing and New Infrastructures; Emergency Services	Public Works	Public Works Maintenance of Infrastructure	Once Every 12 Mths.	\$25,000 Annually	Local
8	Cleaning and Maintenance of Receiving Waterways and Creeks	Reduces the Possibility of Damages and Losses Due to Flooding	Existing and New Infrastructures; Emergency Services	Public Works County Mosquito Commission	Public Works Maintenance of Infrastructure	Once Every 12 Mths.	\$25,000 Annually	County
9	Installation of Flood Warning Signs in Flood Prone Areas	Reduces the Possibility of Damages and Losses Due to Flooding	Emergency Services	Office of Emergency Management	Emergency Services	2010	\$15,000	Local

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10	Upgrade Borough's Existing Warning System	Reduces the Possibility of Damages and Losses Due to Flooding, Coastal Erosion and Wave Action	Emergency Services	Office of Emergency Management, Police Department	Emergency Services	2012	\$50,000	Local
11	Upgrade Emergency Generator at Police Headquarters	Reduces the Possibility of Damages and Losses Due to Flooding, Coastal Erosion and Wave Action	Emergency Services	Office of Emergency Management, Police Department	Emergency Services	2012	\$50,000	Local
12	Implementation of the Army Corps of Engineers Shore Protection and Flood Control Project	Reduces the Possibility of Damages and Losses Due to Flooding, Coastal Erosion and Wave Action	Existing and New Infrastructure; Emergency Services	Mayor and Borough Council, ACOE, NJDEP	Capital Improvement	2015	\$1.6 Million	State Federal County Local

Please attach additional pages as needed.



IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Township of Upper Freehold\_\_\_\_\_

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#1 High	Action 4D- Ellisdale Road-Installation of sheet piling, increase culvert size, construct ditching and reconstruction 700 LF roadway at Bridge U-52.	Flooding due to inland flooding, hurricanes and nor'easters.	Both	Township Committee	Township Engineer	2010 or 1 year after funding available.	\$550,000	Grants and local funding
#2 High	Action 4F- Cleaning of sediment and debris and removal of fallen trees which block waterways. Examples area at Bridges U-15 Breza Road and U-52 Ellisdale Road.	Flooding due to fallen trees caused by storm drainage.	Both	Township Committee	Office of Emergency Management, Township Engineer and Environmental Commission	2010 or 1 year after funding available	\$150,000	Grants and local funding
#3 High	Action 4D- Roadway bank protection at Bridge U-34 Sharon Station Road; Bridge U-53 Provinceline Road; and Bridges U-47 &48 Walnsmill Road	Roadway erosion caused by flooding	Both	Township Committee	Township Engineer	One year after funding available.	\$150,000	Grants and local funding

Please attach additional pages as needed.



WALL TOWNSHIP  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction) Wall Township

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Medium	Action 10. A In conjunction with NJFFS and local Forest Fire Warden, develop mapping of wildland / urban interface areas.	Wildfire	Both	Township Committee	Office of Emergency Management in conjunction with NJFFS	2008	Low - administrative	Budget
Medium	Action 2.B Create a mitigation outreach program. Specifically by using a website and media outreach to assist residents prepare for disasters.	All hazards	Both	Township Committee	Office of Emergency Management in conjunction with other emergency service annexes	2008	Low - administrative	Budget
High	Action 10.B Develop inventory of addresses for route alerting during wildfire emergencies that require public warning and information. Specifically by implementing reverse telephone notification system.	Wildfire and all hazards	Both	Office of Emergency Management, Police Department	Office of Emergency Management, Police Department	2008	\$15,000 annual	Budget

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WALL TOWNSHIP

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
High	Action 3.B Develop and adopt an emergency water allocation strategy to be implemented during severe drought.	Drought	Both	Township Committee	Office of Emergency Management, Dept. of Public Works, Police Department	2010	Low-Administrative	Budget
High	Action 4. H. Reduce the possibility of flooding at Wreck Pond by implementing stormwater retention projects identified by the Wreck Pond Regional Stormwater Management Committee in Subregion 12 watershed	Flooding due to inland and coastal floods, hurricanes, and Noreasters	Both	Township Committee and Township Engineer	Office of emergency Management with other municipalities, county, and state	2013	Unknown High	Grants, local with surrounding municipalities

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IMPLEMENTATION STRATEGY

(Name of Jurisdiction) **Borough of West Long Branch**

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Priority 1- High-	Drainage remediation project servicing West Long Branch, Long Branch, Monmouth County property and Monmouth University property	Hurricane & T.S-H Norøaster-H Flood-L	Roadways and property in two municipalities and University property	Boro Engineer	Storm Water management Plan	2010	\$1.5 Mil	State, County, And Local
Priority 2- Med	Remediation of Turtle Mill Floodway -Stream Cleaning	Hurricane & T.S-H Norøaster-H Flood-L	State and County Roadways in three municipalities	Boro Engineer	Storm Water management Plan	2010	Under \$1 Mil	State, County and Local

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