

## *Appendix Vol I.44 Sea Girt Borough*

Please find below the following documents specific to this jurisdiction that have been included as part of the plan update process.

- Summary Sheet
- Mitigation Action Table
- Mitigation Action Worksheets
- Capability Assessment
- Flood Zone Map
- Sea Level Rise Vulnerability Map
- Meeting Material



## NFIP Statistics

**302** *Polices In-force*

**111** *Total Losses*

**\$2,389,283** *Total Payments*

**4** *Number of RL Properties*

**0** *Number Mitigated  
RL Properties*

**13** *RL - Total Losses*

**\$214,542** *RL - Total Paid*

**0** *Number of SRL Properties*

**0** *Number Mitigated SRL  
Properties*

**0** *SRL - Total Losses*

**\$0** *SRL - Total Paid*

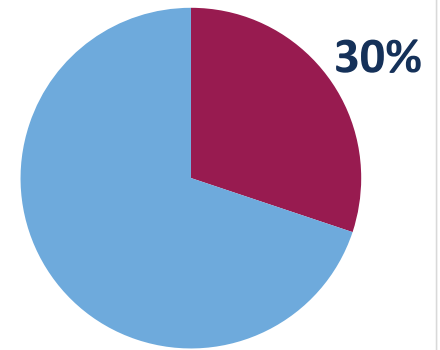


## Critical Facilities

**7** *Critical Facilities*

**0** *Critical Infrastructure*

**23** *Historic & Cultural Resources*



Percent Land Area Within SFHA

**12**

*Total Mitigation  
Actions*

**2**



*Education and Awareness Programs*

**9**



*Structure and Infrastructure Projects*

**1**



*Local Plans and Regulations*

**0**



*Natural Systems Protection*



**0** *SV Population At Risk (2017)*

**516** *Population at Risk (2017)*

Sea Girt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
44_01	Extend Outflow Pipe	Extend the outflow pipe past the Mean High Tide Mark into the ocean and raise to an elevation as to not clog with sand.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough and Army Corps of Engineers	HMGP grant and 25% borough match			Completed
44_02	Elevate Homes above the BFE	Elevate 189 homes above BFE to coincide with the FEMA Flood Mapping and directives. Variances will be allowed on height of homes in flood areas to place foundations above floodplain.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Homeowners	FEMA HMA	\$207,900,000.00	1 year	Ongoing
44_03	Purchase and Install (or Upgrade) Generators at Critical Facilities	New generator at the Public Works building and upgrade generators at the Water Treatment Plant and Municipal Building.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Low	Borough and contracted parties	FEMA HMA	\$45,000.00	1 year	Ongoing
44_04	New Alert Horn and Siren System	Improve the notification to residents by the addition of and installation of a new generation electronic horn and public address system. Our neighboring town Manasquan Borough has this system stationed throughout its town and is able to not only alert the town of impending danger and hazard by means of an electronic horn and tones but also by means of voice messages rebroadcast back over the electronic horn. This proved very effective during a hurricane to notify residents by mass messaging over the public address system. We believe this would be a perfect fit in the beachfront area, low lying areas, and areas west of the railroad tracks in and around the school. Similar size towns like ours - one square mile - have multiple posted horn locations to maximize coverage and so the residents can hear the voice message. We are currently working with the Borough Engineering staff on proper placement and locations. The Borough has no means of contacting residents as well as persons driving through the town during a hurricane of any impending danger or hazardous situation. It is a weakness we hope to correct by means of funding through the Grant Program. These siren horns units would serve as to main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents, our messages would also serve the National Guard Training Center which is housed in Sea Girt and is in a flood zone and low-lying area of the Borough.		Education and Awareness Programs	All Hazards			Borough and contracted parties	HMGP grant and 25% borough match	\$200,000.00		Completed

Sea Girt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
44_05	Purchase Portable and Permanent Emergency Signage	The Borough wishes to improve the notification to residents and persons traveling through the Borough roadways by two different means of information: Portable: a portable sign trailer that has a message board and it notifies persons of hazardous conditions and unsafe situations. This portable message board would be used by Sea Girt OEM to warn residents of impending life-threatening conditions, flooding, hazardous conditions with the mobility to notify residents of impending danger, hazardous conditions and that the area they are in will flood. These signs would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. Permanent: The Borough also has certain areas that during Superstorm Sandy flooded and are considered Flood Zones. We wish to install permanent signs powered by solar energy to notify residents of impending danger, hazardous conditions, and that the area they are in will flood. We are currently working with the Borough Engineering staff on proper placement and locations of such permanent signage.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Medium	Low	Borough and contracted parties	Municipal budget, Homeland Security grants	\$70,000.00	1 year	Ongoing
44_06	AM Radio Station for Communication	AM Radio Station for communication of vital information to residents.		Education and Awareness Programs	All Hazards			Borough and contracted parties	HMGP grant and 25% borough match	\$50,000.00		Completed
44_07	Reopen Wreck Pond	Reopen the east end of the pond to allow for flow between Wreck Pond and the Atlantic Ocean.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough of Spring Lake, with cooperation and support from Sea Girt, Spring Lake	Sources of funding have already been identified and 75% of the funding is approved.	\$2,000,000.00		Completed
44_08	Dredge Wreck Pond	Continue to work with DEP, Spring Lake, Spring Lake Heights, Wall Township, and Monmouth County to bring the project to completion.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm			Shared responsibility with all stakeholders	Potential funding sources Army Corps of Engineers, DEP, Monmouth County, HMGP and adjacent			Completed
44_09	Create an Emergency Recovery Plan for the National Guard Training Center	Coordinate with the NJ Department of Military and Veterans Affairs on an Emergency Recovery Plan for their National Guard Training Center. Adopt this plan as an element of the Borough's Emergency Operations Plan.	Administrative	Local Plans and Regulations	All Hazards	Medium	Low	Borough Administration and OEM	Homeland Security grants, Municipal budget		2 years	New
44_10	Increase Security at Water Tower with Surveillance Camera System and Secure Gates	Install a surveillance camera system and more secure gates at the water tower, DPW building, and the wells outside DPW.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism	Medium	Low	Borough OEM, Police, DPW	Homeland Security grants	\$10,000.00	1 year	New

Sea Girt, Borough of

Monmouth County HMP Mitigation Action Summary

Community Action #	Action Name	Action Description	Action Category	Action Type	Hazard(s) Addressed	Priority	Ease of Implementation	Responsible Party	Potential Funding Sources	Cost Estimate	Timeline	Action Status
44_11	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Coordinate with residents to mitigate RL/SRL properties through structure elevation, demolition to open space, or other type of mitigation.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Medium	Borough and Property Owners	FEMA HMA		5 + years	New
44_12	Coordinate with the National Guard Training Center to Construct Flood Measure (e.g. floodwalls or berms) along Stockton Lake	Coordinate with the National Guard Training Center to construct floodwalls or berms on their property along Stockton Lake, which causes repetitive flooding in the Borough.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	National Guard and the Borough	FEMA HMA		4 years	New

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_01

Sea Girt, Borough of

## Describing the Action

Action Name:	Extend Outflow Pipe
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Extend the outflow pipe past the Mean High Tide Mark into the ocean and raise to an elevation as to not clog with sand.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 7
Risk Reduction:	The Baltimore Blvd outflow pipe gets clogged with sand and debris due to its location and therefore backs up catch basin drainage for the middle easterly portion of town.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	The NJDEP, Army Corps of Engineers, and Borough Engineers that will be tasked with the work; two administrative people will be necessary to administer from the borough end.
Local Champion:	Homeowners happy to have flooding reduced.
Other Community Objectives:	Mitigates the problem and increases value of the properties with decreased flooding.
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough and Army Corps of Engineers
Local Planning Mechanism:	Borough ordinance related to beachfront and CAFRA permitting
Likely Funding Source(s):	HMGP grant and 25% borough match
Timeline:	
Action Status:	Completed
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_02

Sea Girt, Borough of

## Describing the Action

Action Name:	Elevate Homes above the BFE
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevate 189 homes above BFE to coincide with the FEMA Flood Mapping and directives. Variances will be allowed on height of homes in flood areas to place foundations above floodplain.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Sea Girt would like to apply for funding on behalf of the residents of the Borough that are located within a flood zone. Currently we have two residents that have requested assistance through the Borough for means of applying for HMGP grant monies of elevating their homes damaged by Hurricane Sandy and its storm surge. We believe that many homeowners suffered great damage within the Borough by flood waters and the need to raise and elevate these homes in flood zones is critical to the protection and safety of the Borough homeowners. Approximately 15% of our 1263 homeowners within the Borough are located in flood zones as established by the FEMA flood mapping system. Our Borough suffered greatly along the beachfront and the south end of town from flooding of storm surge, tidal flooding and encroachment of water from neighboring Sea Girt National Guard Training Center property which abuts the Stockton Lake tidal body of water. We believe that great damage done to and hazardous situations that exist with homes on standard foundations in these effected areas could be greatly reduced. These homes if elevated and built to current codes and standards within the flood zones and in accordance with flood management programs and protection guidelines would have suffered less damage. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events over a larger area.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	Variances will be required to permit structures to exceed maximum height permitted by Borough Ordinance to allow for elevation increase.
Environmental:	No adverse environmental impacts
Social:	Does affect the quality of life of neighbors and residents in these areas. Construction and pile driving will affect quality of life however hopefully increase property values.
Administrative Capability:	Borough engineers, code enforcement, building department and outside contractors that will be tasked with the work, four administrative persons will be necessary to administer from the borough end.
Local Champion:	Homeowners
Other Community Objectives:	Mitigates the problem and increases value of the properties with decreased flooding
STAPLEE Evaluation:	10

## Implementing the Action

Cost Estimate:	\$207,900,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Homeowners
Local Planning Mechanism:	Borough ordinance related to beachfront and CAFRA permitting as well as compliance with local building codes.
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 actions; 2 homes have been elevated. How many more RL need to be elevated is to be determined.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_03

Sea Girt, Borough of

## Describing the Action

Action Name:	Purchase and Install (or Upgrade) Generators at Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	New generator at the Public Works building and upgrade generators at the Water Treatment Plant and Municipal Building.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	
Risk Reduction:	There is critical infrastructure within the Borough that are not able to be used during a disaster or a loss of power. The Municipal Building serves as headquarters for the Borough's Police and Fire Departments. These buildings are critical to the operation of our DPW, water treatment plant, and Police and Fire emergency services provided to Borough residents. The DPW facility houses the mechanic shop, fueling station for the natural gas vehicles, six garage bays for vehicles that are housed and charged inside the building. We had numerous needs over the course of the two-week period as we had no power within the Borough during Superstorm Sandy. Vehicles that needed mechanic work and or needed to enter and exit the garages with equipment were unable to do so or have work done to them. The loss of equipment use and or ability to operate out of the DPW yard was critical to the life and safety during the storm. Every vehicle was put into service and the DPW yard without power was a significant loss to our efforts to protect the citizens within the Borough. It is critical to the health and welfare of Borough residents to have access to potable water that is provided by the Water Treatment Plant. Fire Headquarters housed in the Municipal Building provided food and shelter for Borough residents during Superstorm Sandy and Police services were also coordinated from this location.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because it supports local services during emergencies.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	Borough Council, School, Police and Fire Officials
Other Community Objectives:	Mitigates the problem and keeps the Borough operating
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$45,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough and contracted parties
Local Planning Mechanism:	Resolution for contractors and permitting where applicable
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; a new generator was acquired for the Public Works building (HMGP grant of \$19,485). The generators have not yet been updated at the Water Treatment Plant or the Municipal Building.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_04

Sea Girt, Borough of

## Describing the Action

Action Name:	New Alert Horn and Siren System
Action Category:	
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	<p>Improve the notification to residents by the addition of and installation of a new generation electronic horn and public address system. Our neighboring town Manasquan Borough has this system stationed throughout its town and is able to not only alert the town of impending danger and hazard by means of an electronic horn and tones but also by means of voice messages rebroadcast back over the electronic horn. This proved very effective during a hurricane to notify residents by mass messaging over the public address system. We believe this would be a perfect fit in the beachfront area, low lying areas, and areas west of the railroad tracks in and around the school. Similar size towns like ours - one square mile - have multiple posted horn locations to maximize coverage and so the residents can hear the voice message. We are currently working with the Borough Engineering staff on proper placement and locations. The Borough has no means of contacting residents as well as persons driving through the town during a hurricane of any impending danger or hazardous situation. It is a weakness we hope to correct by means of funding through the Grant Program. These siren horns units would serve as to main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents, our messages would also serve the National Guard Training Center which is housed in Sea Girt and is in a flood zone and low-lying area of the Borough.</p>

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	3, 4, 7
Risk Reduction:	<p>The Borough sustained almost 14 days without power and getting messages to the Borough residents and persons of interest was crucial to the life and safety wellbeing of our residents. We believe we have some of the necessary infrastructure such as antenna mounting and generator power to house such means of communication. We are currently working with the Borough Engineering staff on proper placement and locations of such. The Borough had no means of contacting residents as well as persons driving through the town during this Hurricane of any impending danger or hazardous situation.</p>
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Effects the wellbeing of the Borough and its residents.
Administrative Capability:	With outside contractors and borough engineers that will be tasked with the work, one administrative person will be necessary to administer from the borough end.
Local Champion:	Borough Council, School, Police and Fire Officials
Other Community Objectives:	Mitigates the problem and keeps the public and residents immediately informed.
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$200,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough and contracted parties
Local Planning Mechanism:	Resolution for contractors and permitting where applicable
Likely Funding Source(s):	HMGP grant and 25% borough match
Timeline:	
Action Status:	Completed

## Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_05

Sea Girt, Borough of

### Describing the Action

Action Name:	Purchase Portable and Permanent Emergency Signage
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	The Borough wishes to improve the notification to residents and persons traveling through the Borough roadways by two different means of information: Portable: a portable sign trailer that has a message board and it notifies persons of hazardous conditions and unsafe situations. This portable message board would be used by Sea Girt OEM to warn residents of impending life-threatening conditions, flooding, hazardous conditions with the mobility to notify residents of impending danger, hazardous conditions and that the area they are in will flood. These signs would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. Permanent: The Borough also has certain areas that during Superstorm Sandy flooded and are considered Flood Zones. We wish to install permanent signs powered by solar energy to notify residents of impending danger, hazardous conditions, and that the area they are in will flood. We are currently working with the Borough Engineering staff on proper placement and locations of such permanent signage.

### Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 4, 7
Risk Reduction:	The Borough sustained almost 14 days without power and getting messages to the Borough residents and persons of interest was crucial to the life and safety wellbeing of our residents. We believe we have some of the necessary infrastructure such as antenna mounting and generator power to house such means of communication. We are currently working with the Borough Engineering staff on proper placement.
Technical:	Likely to be cost effective, with benefits in excess of project costs.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	No adverse environmental impacts.
Social:	Affects the wellbeing of the Borough and its residents
Administrative Capability:	With outside contractors and borough engineers that will be tasked with the work, one administrative person will be necessary to administer from the borough end.
Local Champion:	Borough Council, School, Police and Fire Officials
Other Community Objectives:	Mitigates the problem and keeps the public and residents immediately informed.
STAPLEE Evaluation:	N/A

### Implementing the Action

Cost Estimate:	\$70,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough and contracted parties
Local Planning Mechanism:	Resolution for contractors and permitting where applicable
Likely Funding Source(s):	Municipal budget, Homeland Security grants
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the portable emergency signage was obtained, and the permanent emergency signage is still in the process but will be on the new Municipal Building and library.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_06

Sea Girt, Borough of

## Describing the Action

Action Name: AM Radio Station for Communication

Action Category:

Action Type: Education and Awareness Programs

HMA Eligible Activity: Miscellaneous/Other

Action Description: AM Radio Station for communication of vital information to residents.

## Evaluating the Action

Hazard(s) Addressed: All Hazards

Goals: 1, 3, 4, 7

Risk Reduction: AM radio station would serve as a main means of communicating the needed information during power outages and prolonged periods of danger and hazard. In addition to the town and residents - our messages would also serve the National Guard Training Center which is housed in Sea Girt Borough and is in a flood zone and low-lying area of the Borough.

Technical: Technically feasible.

Political: No political obstacles anticipated.

Legal: No legal issues expected.

Environmental: No adverse environmental impacts.

Social: Affects the wellbeing of the Borough and its residents

Administrative Capability: With outside contractors and borough engineers that will be tasked with the work, one administrative person will be necessary to administer from the borough end.

Local Champion: Borough Council, public,

Other Community Objectives: Mitigates the problem and keeps the public and residents immediately informed

STAPLEE Evaluation: N/A

## Implementing the Action

Cost Estimate: \$50,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Borough and contracted parties

Local Planning Mechanism: Resolution for contractors and permitting where applicable

Likely Funding Source(s): HMGP grant and 25% borough match

Timeline:

Action Status: Completed

Notes: Shared service with Manasquan.

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_07

Sea Girt, Borough of

## Describing the Action

Action Name: Reopen Wreck Pond

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Reopen the east end of the pond to allow for flow between Wreck Pond and the Atlantic Ocean.

## Evaluating the Action

Hazard(s) Addressed: Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge

Goals: 2, 3, 5, 6

Risk Reduction: Wreck Pond, located at the north terminus of Sea Girt between the Borough and Spring Lake, was originally open to the Atlantic Ocean, allowing for drainage during periods of peak rainfall. Just after the 1997 beach replenishment project, the east end of the Pond was closed off. As a result, the properties adjacent to the Pond are at a greater risk of flooding.

Technical: Technically feasible; the plans have been drafted and the project has started.

Political: No political obstacles anticipated.

Legal: No legal issues expected.

Environmental: Improve the water quality of the Pond along with reducing flooding of adjacent properties.

Social: Affects the quality of life of residents in the four communities adjacent to the Pond.

Administrative Capability: Administrative oversight

Local Champion: Governing bodies of Sea Girt, Spring Lake, Spring Lake Heights, and Wall Twp.

Other Community Objectives: Mitigate an on-going problem during times of peak rainfall

STAPLEE Evaluation: N/A

## Implementing the Action

Cost Estimate: \$2,000,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Borough of Spring Lake, with cooperation and support from Sea Girt, Spring Lake Heights, and Wall Twp.

Local Planning Mechanism: Plans to reopen the east end have already been drafted and are being implement

Likely Funding Source(s): Sources of funding have already been identified and 75% of the funding is approved.

Timeline:

Action Status: Completed

Notes:

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_08

Sea Girt, Borough of

## Describing the Action

Action Name:	Dredge Wreck Pond
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Continue to work with DEP, Spring Lake, Spring Lake Heights, Wall Township, and Monmouth County to bring the project to completion.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5
Risk Reduction:	Sediment loading into the eastern end of the Pond has reduced the impoundment capacity of the Pond
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues expected.
Environmental:	Finding a suitable disposal site for dredged material could be an issue.
Social:	Reduced risk benefits the community.
Administrative Capability:	Participation with other stakeholders to ensure project is completed.
Local Champion:	Governing bodies of Spring Lake, Sea Girt, Spring Lake Heights and Wall Twp., DEP, Monmouth County
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Shared responsibility with all stakeholders
Local Planning Mechanism:	Continue to work with DEP, Spring Lake, Spring Lake Heights and Wall Township to bring the project to completion.
Likely Funding Source(s):	Potential funding sources Army Corps of Engineers, DEP, Monmouth County, HMGP and adjacent communities
Timeline:	
Action Status:	Completed
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_09

Sea Girt, Borough of

## Describing the Action

Action Name:	Create an Emergency Recovery Plan for the National Guard Training Center
Action Category:	Administrative
Action Type:	Local Plans and Regulations
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Coordinate with the NJ Department of Military and Veterans Affairs on an Emergency Recovery Plan for their National Guard Training Center. Adopt this plan as an element of the Borough's Emergency Operations Plan.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 7
Risk Reduction:	Sea Girt would like to create an emergency response plan with the military in case a human-based hazard (terrorism) happens on base or to coordinate storm preparation.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	Coordinate with NJ Department of Military and Veterans Affairs since it is their property within the Borough.
Environmental:	No adverse environmental impacts
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because it supports local services during emergencies
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	OEM, Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough Administration and OEM
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Homeland Security grants, Municipal budget
Timeline:	2 years
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_10

Sea Girt, Borough of

## Describing the Action

Action Name:	Increase Security at Water Tower with Surveillance Camera System and Secure Gates
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Install a surveillance camera system and more secure gates at the water tower, DPW building, and the wells outside DPW.

## Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	3, 5, 7
Risk Reduction:	The top of the water tower houses the Borough's communication, including fire, police, and the only cell site in the area. The communicate center and the water tower itself is vulnerable to a terrorist attack and needs to be more secure. Currently, there is only a chain-linked fence around the tower's perimeter.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues anticipated.
Environmental:	No adverse environmental effects anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because the water tower serves as a critical function for the community.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$10,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough OEM, Police, DPW
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Homeland Security grants
Timeline:	1 year
Action Status:	New
Notes:	

# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_11

Sea Girt, Borough of

## Describing the Action

Action Name:	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Coordinate with residents to mitigate RL/SRL properties through structure elevation, demolition to open space, or other type of mitigation.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 2, 3, 6
Risk Reduction:	Risk of future destruction and property loss in repetitive flooded areas.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	If structures are elevated, they must be built in compliance with the FEMA flood maps.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because of repetitive nature of flooding in the project area.
Administrative Capability:	There is sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Borough and Property Owners
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years
Action Status:	New
Notes:	



# Monmouth County Mitigation Action Worksheets

Community Action Number: 44\_12

Sea Girt, Borough of

## Describing the Action

Action Name:	Coordinate with the National Guard Training Center to Construct Flood Measure (e.g. floodwalls or berms) along Stockton Lake
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Coordinate with the National Guard Training Center to construct floodwalls or berms on their property along Stockton Lake, which causes repetitive flooding in the Borough.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 7
Risk Reduction:	Approximately half of the National Guard Training Center and the surrounding neighborhood is in the SFHA, as a result of flooding from Stockton Lake; there is one Repetitive Loss property due to flooding from the Lake.
Technical:	Technically feasible.
Political:	No adverse political implications.
Legal:	Must work with the National Guard as this project would be located on their property.
Environmental:	Minor affects to the environment.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	8

## Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	National Guard and the Borough
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	4 years
Action Status:	New
Notes:	

# CAPABILITY ASSESSMENT WORKSHEET

Name: Timothy Harmon

Title: Emergency Management Coordinator

Jurisdiction: Sea Girt Borough

Organization:

Local Mitigation Capabilities are existing authorities, policies, programs, and resources that reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete the tables and questions in the worksheet as completely as possible.

## Planning & Regulatory

Planning and Regulatory Capabilities are the plans, policies, codes, and ordinances that prevent and reduce the impacts of hazards. Please indicate which of the following your jurisdiction currently has in place.

Plan	Yes/No	1. What is the date/year of the plan? 2. Does the plan address hazards? 3. Does the plan identify projects to include in the mitigation strategy? 4. Can the plan be used to implement mitigation actions?
Comprehensive/Master Plan	Yes	1. 2018 Re-examination
Capital Improvements Plan	Yes	Annually adopted by the governing body; yes; yes; yes
Economic Development Plan	No	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan	Yes	
Post-Disaster Recovery Plan	Yes	
Transportation Plan		Circulation element included in the 2018 re-examination
Stormwater Management Plan	Yes	1. As an element in the 2018 re-examination
Community Wildfire Protection Plan	No	



## CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	<ul style="list-style-type: none"> <li>• Crescent Park Rehabilitation Plan (2017)</li> <li>• Beach Management Plan (2018)</li> </ul>
<b>Building Code, Permitting, and Inspections</b>	<b>Yes/No</b>	<b>Are codes adequately enforced?</b>
Building Code	Yes	Version/Year: New Construction, NJ IRC 2015
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating	Yes	Rating: Class 3
Site Plan Review Requirements	Yes	Yes, NJ Building Code Standards & reviews
<b>Land Use Planning and Ordinances</b>	<b>Yes/No</b>	<b>Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?</b>
Zoning Ordinance	Yes	Yes, Local Municipal Ordinances Yes, full time zoning officer/code enforcing officer
Subdivision Ordinance	Yes	N/A; yes
Floodplain Ordinance	Yes	Flood Damage Prevention
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	Yes; yes
Flood Insurance Rate Maps	?	
Acquisition of Land for Open Space and Public Recreation Uses	N/A	The Borough is fully built-out.
Post-Disaster Recovery Ordinance	Yes	
Real Estate Disclose Ordinance	Yes	



## CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	Yes	Special Purposes Ordinance, Growth Management Ordinance
<b>How can the above capabilities be expanded and improved to reduce risk?</b>		

### Administrative & Technical

Identify whether your community has the following administrative and technical capabilities. These include staff and their skills and tools that can be used for mitigation planning and to implement specific mitigation actions. For smaller jurisdictions without local staff resources, if there are public resources at the next higher-level government that can provide technical assistance, indicate so in your comments.

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	yes	Planning Board
Mitigation Planning Committee	No	
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Tree Plan
Mutual Aid Agreements	Yes	AM Radio Station w/ Manasquan; OEM, EMS, Fire, Police with adjoining municipalities;
Staff	Yes/No FT/PT	Is the staff full time or part time? Is staffing adequate to enforce regulations? Is the staff trained on hazards and mitigation? Is coordination between agencies and staff effective?
Chief Building Official	Yes	Shared service with adjoining municipalities.
Floodplain Administrator	Yes	Consultant
Emergency Manager	Yes	Part-time
Community Planner	Yes	Consultant



## CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	Consultant
Surveyor	Yes	Consultant
GIS Coordinator	Yes	Consultant
Scientists familiar with the hazards of the community	No	
Other		
<b>Technical</b>	<b>Yes/No</b>	<b>Describe capability Has capability been used to access/mitigate risk in the past?</b>
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	Sea Girt Police utilize reverse 911 notifications when the situation warrants
Hazard Data and Information		
Grant Writing	Yes	
Hazus Analysis		
Other		
<b>How can the above capabilities be expanded and improved to reduce risk?</b>		



## CAPABILITY ASSESSMENT WORKSHEET

### Financial

Identify whether your jurisdiction has access to or is eligible to use the following funding resources for hazard mitigation.

Funding Resource	Access / Eligibility (Yes/No)	Has the funding resource been used in the past and for what type of activities? Could the resource be used to fund future mitigation actions?
Capital Improvements Project Funding	Yes	Yes, for construction of new and repair of older infrastructure; yes
Authority to Levy Taxes for Specific Purposes	No	
Fees for Water, Sewer, Gas, or Electric Services	Yes	Improvements to water and sewer infrastructure; yes
Impact Fees for New Development	No	
Stormwater Utility Fee	No	
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	For limited improvements to municipal facilities; no
Other Federal Funding Programs	Yes	
State Funding Programs	No	
Other (e.g., withhold spending in hazard-prone areas)		
<b>How can these capabilities be expanded and improved to reduce risk?</b>		



## CAPABILITY ASSESSMENT WORKSHEET

### Education and Outreach

Identify education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.	No	
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Borough provides information to residents in its monthly newsletter via e-mail.
Natural Disaster or Safety Related School Programs	Yes	Sea Girt Police, Sea Girt Fire Department and Sea Girt Lifeguards present programs to students on an annual basis
StormReady Certification	No	
Firewise Communities Certification	No	
Public-Private Partnership Initiatives Addressing Disaster Related Issues	No	
Other		
<b>How can these capabilities be expanded and improved to reduce risk?</b>		







# SEA GIRT BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



**Building Classification**

Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified

**Parcel Classification**

Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified
			Open Space

0 450 900 Feet

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA  
Projection: New Jersey State Plane, NAD 1983



**FEMA FLOOD HAZARD AREAS**

1% Annual Chance Flood (SFHA)

- Regulatory Floodway
- Zone A, AE, AO, AH
- Zone VE

0.2% Annual Chance Flood

- Zone X

Undetermined

- Zone D

Evacuation Route

Flood Hazard Areas are a composite of Effective FIRMs (06/20/2018) and Preliminary FIRMs (01/30/2015)

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.





# SEA GIRT BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



**Building Classification**

Industrial

Farm

Industrial

Farm

Commercial

Vacant

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Residential (four families or less)

Unclassified

**Parcel Classification**

Industrial

Farm

Industrial

Farm

Commercial

Vacant

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Residential (four families or less)

Unclassified

Open Space

0450900

Feet

N

Source: 2014 Esri; Monmouth County; NJOIT-OGIS; NJGIN MODIV Parcel, FEMA

Projection: New Jersey State Plane, NAD 1983



**POTENTIAL SEA LEVEL RISE  
INUNDATION AREAS**

1 Foot Sea Level Rise (2050)

3 Foot Sea Level Rise (2100)

Evacuation Route

Spatial Resolution and Accuracy: This map depicts inland extent and relative depth of inundation for 1ft. and 3ft. of SLR using NOAA SLR data with a vertical datum of Mean Higher High Water (MHHW). These inundation ranges are consistent with the Rutgers University's New Jersey Climate Adaptation Alliance Science and Technical Advisory Panel Report (STAP Report). The STAP Report estimates New Jersey will experience SLR between 1.0 and 1.8 feet prior to 2050, regardless of future greenhouse gas emissions. The data displayed on this map represents current conditions and does not consider natural processes such as erosion or marsh migration that will be affected by future sea level rise. Due to coarse spatial resolution, the user should not interpret the layers as precise inundation extents.

This map was developed using the 10-04-18 statewide composite of parcel data published by the NJOIT-OGIS. The State of New Jersey makes great effort to provide secure, accurate, and complete data and metadata. However, portions of the data and metadata may be incorrect or not current. Any errors or omissions should be reported for investigation to OGIS.





## MEETING NOTES

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**Topic:** Sea Grit- Monmouth County HMP Update Meeting

**Date:** June 26, 2019

**Time:** 2:00 PM- 3:00 PM

**Location:** Borough Hall. Sea Girt. 321 Baltimore Blvd Second Floor Conf Room

**Attendees:**

Lorraine	Carafa	Administrator
Timothy	Harmon	OEM Coordinator
Justin	Macko	Sea Girt OEM

**Drafted by:** Paige Kaspar

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**Introductions (Paige):**

- Goals and Hazards
- What is Mitigation Hazard Planning?
- Funding Available
  - HMA
- Mitigation Strategies

**Critical Facilities:**

- Sea Grit Pavilion combination building
- DPW and Water works are the same building
- Firehouse, police station, and municipal building
- St. Marks Church add as a historical/ cultural resource
- Thomas Devlin is actually Parker House.
- Sea Grit Depo is actually the library and municipal building.
- Water tower/ beach storage/ with radio communications room.

**Capabilities**

- Used the training area at the National Guard as a staging area (JCP&L and Version Sprint)
- Dunes/ maintenance
- EOP



### **2015 Mitigation Actions**

- Mitigation Action 1: Completed
- Mitigation Action 2: Ongoing. Used slosh models to come up with the 189 properties that can potential face damage with another storm
- Mitigation Action 3: Installed generator at the DPW building but did not upgrade the other two ongoing action
- Mitigation 4: Complete → Capability
- Mitigation 5: One portable sign board. Need one for new borough hall near Washington ave.
- Mitigation 6: Have a shared agreement with Manasquan. Complete
- Mitigation 7: Complete
- Mitigation 8: Complete

### **2020 Mitigation Actions**

- Create a sub plan with the National Guard for mitigation
- Water tower/ beach storage/ with radio communications room. Cameras/ increase security.
- Increase security on DPW gates
- Increase security on the wells next to DPW
- 

### **Issues**

- Sea Grit ave and bellplace drainage issues
- Undersized pipe on route 71 state owned.

### **Successes**

- RL Properties in between Baltimore and Philadelphia had drainage issues and have been mitigate with new drainage.
- Firehouse used as a warming shelter. Has a generator.
- New municipal building plans on having a generator
- Adding of the maintenance
- National Guard building have completed mitigation including some elevations.
- Added a drainage structure on the south side of Rt. 71
- Manasquan put in a drainage basin on property near the railroad.
- 5 yr plan crescent park rehabilitation of open space/ park. 2017



Monmouth County  
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker  
INTERNATIONAL

Meeting: Sea Girt Borough

Date: 6/26/19

Initial	Last Name	First Name	Title	Organization	Email Address
J	Macko	Justin	Captain	Sea Girt OEM	jmacko@seagirtod.net
	Harmon	Matthew	Sea Girt O&M	Sea Girt O&M	tharmon@seagirtborc.com
	Carraffa	Josephine	Administrator	Sea Girt	lcarraffa@seagirtborc.com
	Ashman	Britt	Planner	MB	
	Kasper	Paige	Planner	MB	