

Appendix Vol I.47 Spring Lake 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

105 *Polices In-force*

44 *Total Losses*

\$926,884 *Total Payments*

111 *Number of RL Properties*

14 *Number Mitigated
RL Properties*

307 *RL - Total Losses*

\$11,005,802 *RL - Total Paid*

11 *Number of SRL Properties*

0 *Number Mitigated SRL
Properties*

48 *SRL - Total Losses*

\$1,885,736 *SRL - Total Paid*

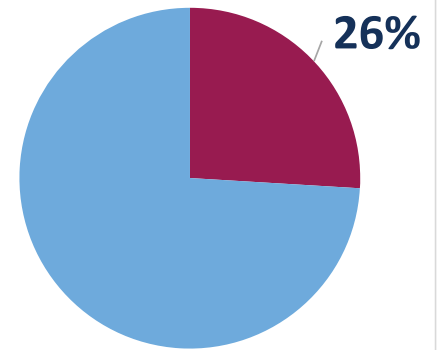


Critical Facilities

8 *Critical Facilities*

1 *Critical Infrastructure*

77 *Historic & Cultural Resources*



Percent Land Area Within SFHA

12

*Total Mitigation
Actions*

1



Education and Awareness Programs

7



Structure and Infrastructure Projects

2



Local Plans and Regulations

2



Natural Systems Protection



0 *SV Population At Risk (2017)*

774 *Population at Risk (2017)*

Spring Lake, 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
47_01	Wreck Pond-Sluice Gate Installation	The installation of sluice gates on the existing Wreck Pond outlet control structure. Prior to a major storm event, the gates would be closed to prevent flooding.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough Engineer	FEMA, HMGP Grant and the Borough of Spring Lake	\$300,000.00		Completed
47_02	Dredging of Wreck Pond: Phase III	The dredging will result in the removal of approximately 20,000 cubic yards of material. Work will be performed by Monmouth County as a shared service.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough Engineer	FEMA, HMGP Grant and the Borough of Spring Lake	\$300,000.00		Completed
47_03	Reconstruct the Sand Dune at Pier Beach	Reconstruct the 20-foot-high mature sand dune for protection from tidal flooding and will provide a buffer against wave action and over-wash.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Low	Borough Engineer	FEMA HMA, Army Corp. of Engineers, NJDEP, and Borough of Spring Lake	\$100,000.00	1 year	Ongoing
47_04	Improve Water Quality of Wreck Pond	Project will use dedicated funding to implement improvements identified in the Wreck Pond Infrastructure Assessment. The improvements include repair of piping defects of the 3,000 acres watershed.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood	High	High	Borough Engineer	Project funded by NJEIT loan	\$500,000.00	1 year	Ongoing
47_05	Bypass Culvert from the Emergency Spillway to Ocean	Install an additional outflow pipe from Wreck Pond to the Atlantic Ocean. Project will double the current outflow capacity of the Pond during a heavy rainfall event.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough Engineer, DEP, United States Fish and Wildlife	Grant of \$2.0 million from the US Fish and Wildlife/ \$1.0 million from Borough	\$4,300,000.00		Completed
47_06	Lake Como Outflow Reconstruction Project	Project will consist of construction of new outfall structure(s) from Lake Como to Ocean.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge			Borough Engineers from Spring Lake, lake Como and Belmar	Monmouth County, NJDEP, FEMA, Spring Lake, Lake Como and Belmar	\$2,500,000.00		Completed
47_07	Acquire, elevate, or relocate buildings and infrastructure in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Elevate approximately 100 flood-prone structures that are below the approved base flood elevations, specifically RL/SRL properties.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Borough Engineers from Spring Lake	FEMA HMA	\$100,000.00	2 years	Ongoing
47_08	Remove of Dredge Materials from Wreck Pond to Another Location	Materials dredged from the middle of the pond cannot be reused on the beach and must be trucked out. This results in higher costs for the Borough.	Maintenance/Respon se/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Low	Borough	Municipal budget		5 + years	New
47_09	Purchase and Install Generators for Critical Facilities	Generators for Borough Hall, HW Mountz School, and the fire house/first aid station.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	All Hazards	Medium	Low	Borough	FEMA HMA	\$150,000.00	1 year	New

Spring Lake, 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
47_10	Target Harden Police Headquarters with Bollards and Surveillance Cameras	Install bollards and surveillance around Police Headquarters to increase security.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism	Medium	Low	Borough Police	Homeland Security grants		1 year	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_01

Spring Lake, Borough of

Describing the Action

Action Name:	Wreck Pond-Sluice Gate Installation
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	The installation of sluice gates on the existing Wreck Pond outlet control structure. Prior to a major storm event, the gates would be closed to prevent flooding.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 7
Risk Reduction:	Severe residential properties flood in the Wreck Pond watershed.
Technical:	Technically feasible. Flooding problem in this area will be controlled.
Political:	All residents realize the need to prevent flooding in this area. No group is opposed to this action.
Legal:	No apparent legal issues.
Environmental:	No adverse environmental issues.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Spring Lake Mayor and Council
Local Champion:	Borough Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$300,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Borough has received all permit approvals.
Likely Funding Source(s):	FEMA, HMGP Grant and the Borough of Spring Lake
Timeline:	
Action Status:	Completed
Notes:	Funded through resiliency grants, HMGP, and Borough money. HMGP was awarded \$997,500 for Wreck Pond Retrofit.

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_02

Spring Lake, Borough of

Describing the Action

Action Name:	Dredging of Wreck Pond: Phase III
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	The dredging will result in the removal of approximately 20,000 cubic yards of material. Work will be performed by Monmouth County as a shared service.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5
Risk Reduction:	Severe residential properties flood in the Wreck Pond watershed.
Technical:	Technically feasible. Flooding problem in this area will be controlled.
Political:	All residents realize the need to prevent flooding in this area. No group is opposed to this action.
Legal:	No apparent legal issues.
Environmental:	No adverse environmental issues.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Spring Lake Mayor and Council
Local Champion:	Borough Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$300,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Borough has received all permit approvals.
Likely Funding Source(s):	FEMA, HMGP Grant and the Borough of Spring Lake
Timeline:	
Action Status:	Completed
Notes:	Monmouth County dredged Wreck Pod; Borough reimbursed the County. Funded through resiliency grants and US Fish & Wildlife money.

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_03

Spring Lake, Borough of

Describing the Action

Action Name:	Reconstruct the Sand Dune at Pier Beach
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Reconstruct the 20-foot-high mature sand dune for protection from tidal flooding and will provide a buffer against wave action and over-wash.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
Risk Reduction:	Severe residential properties flood as a result of storm surge.
Technical:	Technically feasible.
Political:	All residents realize the need to prevent flooding in this area. No group is opposed to this action.
Legal:	No apparent legal issues.
Environmental:	Project just received various permits/approvals from NJDEP to be immediately be completed.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Spring Lake Mayor and Council
Local Champion:	Borough Administrator
Other Community Objectives:	None
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	High
Scale of Ease of Implementation:	Low
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Work will be performed with the Borough's existing CAFRA individual permit for beach and dune maintenance.
Likely Funding Source(s):	FEMA HMA, Army Corp. of Engineers, NJDEP, and Borough of Spring Lake
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing action; the Borough deems this action necessary and is searching for potential funding.

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_04

Spring Lake, Borough of

Describing the Action

Action Name:	Improve Water Quality of Wreck Pond
Action Category:	Mitigation - Continuity of Fuctional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Project will use dedicated funding to implement improvements identified in the Wreck Pond Infrastructure Assessment. The improvements include repair of piping defects of the 8,000 acres watershed.

Evaluating the Action

Hazard(s) Addressed:	Flood
Goals:	3, 5, 6
Risk Reduction:	Severe residential properties flood in the Wreck Pond watershed.
Technical:	Technically feasible.
Political:	All residents realize the need to prevent flooding in this area. No group is opposed to this action.
Legal:	No apparent legal issues.
Environmental:	Project just received various permits/approvals from NJDEP to be immediately be completed.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Spring lake Mayor and Council
Local Champion:	Borough Administrator
Other Community Objectives:	None
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$500,000.00
Priority:	High
Scale of Ease of Implementation:	High
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Project funded by NJEIT loan
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; parts completed but ongoing action. Funded through grants and Borough budget; the outlet from Brown Ave leads to one of the top 10 beach closures.

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_05

Spring Lake, Borough of

Describing the Action

Action Name:	Bypass Culvert from the Emergency Spillway to Ocean
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Install an additional outflow pipe from Wreck Pond to the Atlantic Ocean. Project will double the current outflow capacity of the Pond during a heavy rainfall event.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 7
Risk Reduction:	Severe residential properties flood in the Wreck Pond watershed.
Technical:	Technically feasible.
Political:	All residents realize the need to prevent flooding in this area. No group is opposed to this action.
Legal:	No apparent legal issues.
Environmental:	Protected endangered species habitat would be impacted only during construction, which would be timed to occur when the birds are not present.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Spring Lake Mayor and Council
Local Champion:	Borough Administrator
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$4,300,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough Engineer, DEP, United States Fish and Wildlife
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Grant of \$2.0 million from the US Fish and Wildlife/ \$1.0 million from Borough
Timeline:	
Action Status:	Completed
Notes:	Outfall pipe is closed during the summer months due to the length of the pipe being too short and allowing stormwater pollutants to run into the ocean.

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_06

Spring Lake, Borough of

Describing the Action

Action Name: Lake Como Outflow Reconstruction Project

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Project will consist of construction of new outfall structure(s) from Lake Como to Ocean.

Evaluating the Action

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

Goals: 2, 3, 5, 7

Risk Reduction: Severe residential properties flood in Lake Como, Belmar, and Spring Lake due to the lake.

Technical: Technically feasible.

Political: All residents in both municipalities realize the need to prevent flooding in this area. No group is opposed to this action.

Legal: No apparent legal issues.

Environmental: Project will require permits from the DEP and Army Corp of Engineers.

Social: Does not adversely affect any particular social group.

Administrative Capability: Spring Lake Mayor and Council/ Lake Como Mayor and Council

Local Champion: Borough Administrator, Engineer

Other Community Objectives:

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$2,500,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Borough Engineers from Spring Lake, lake Como and Belmar

Local Planning Mechanism: Hazard Mitigation Plan

Likely Funding Source(s): Monmouth County, NJDEP, FEMA, Spring Lake, Lake Como and Belmar

Timeline:

Action Status: Completed

Notes: Completed by Belmar; doubled the capacity and operated by Belmar. Wreck Pond flooding worse on Spring Lake side and Lake Como flooding worse on Belmar side, but stormwater goes through Spring Lake. The Borough was awarded FEMA 406 Public Assistance Funding for repair work to the Lake Como outfall pipe (\$136,773)

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_07

Spring Lake, 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:	Elevate approximately 100 flood-prone structures that are below the approved base flood elevations, specifically RL/SRL properties.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5
Risk Reduction:	Several residential structures throughout the community are prone to flooding, with their main floor elevations below current BFEs. Sea level rise and climate change will contribute to more frequent and severe flooding and surge events.
Technical:	Elevation of homes is technically feasible.
Political:	All residents realize the need to prevent flooding in this area. No group is opposed to this action. Our political leadership supports this type project.
Legal:	No apparent legal issues.
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:	Spring Lake Mayor and Council and Borough Manager will manage this project.
Local Champion:	Borough Administrator, Engineer
Other Community Objectives:	
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	\$100,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Borough Engineers from Spring Lake
Local Planning Mechanism:	NJOEM
Likely Funding Source(s):	FEMA HMA
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; estimated around ten properties mitigated.

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_08

Spring Lake, Borough of

Describing the Action

Action Name:	Remove of Dredge Materials from Wreck Pond to Another Location
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Materials dredged from the middle of the pond cannot be reused on the beach and must be trucked out. This results in higher costs for the Borough.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5
Risk Reduction:	Dredging Wreck Pond reduces the risk of flooding for properties within the watershed.
Technical:	Technically feasible.
Political:	Some political controversy exists regarding dredging.
Legal:	Legal issues are unknown.
Environmental:	Dredging often has negative impacts on the environment; may disturb the ecosystem.
Social:	Does not adversely impact a particular social group; some residents perceive dredging to be beneficial, believing it to help reduce risk of flooding.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Borough Administrator, Engineer
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Low
Responsible Party:	Borough
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Municipal budget
Timeline:	5 + years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_09

Spring Lake, Borough of

Describing the Action

Action Name:	Purchase and Install Generators for Critical Facilities
Action Category:	Mitigation - Continuity of Fuctional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Generators for Borough Hall, HW Mountz School, and the fire house/first aid station.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 7
Risk Reduction:	Borough Hall operates as a command center, the school operates as a shelter, and the fire house and first aid respond to emergencies and therefore all need backup power in the event the borough loses power.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues anticipated.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because it will increase reliability of the emergency services.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Borough Administrator, Engineer
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	New

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 47_10

Spring Lake, Borough of

Describing the Action

Action Name:	Target Harden Police Headquarters with Bollards and Surveillance Cameras
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Install bollards and surveillance around Police Headquarters to increase security.

Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	1, 2, 3, 5, 7
Risk Reduction:	Police Headquarters remains vulnerable to a terrorist attack; adding bollards and camera surveillance will reduce this risk from occurring.
Technical:	Technically feasible.
Political:	No political obstacles anticipated.
Legal:	No legal issues anticipated.
Environmental:	No adverse environmental impacts.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action
Local Champion:	Police Chief, OEM
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Borough Police
Local Planning Mechanism:	NJOEM goals
Likely Funding Source(s):	Homeland Security grants
Timeline:	1 year
Action Status:	New
Notes:	

CAPABILITY ASSESSMENT WORKSHEET

Name: Edward Kerr

Title: Emergency Management Coordinator and Chief of Police

Jurisdiction: Spring Lake 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. 2010
Capital Improvements Plan	Yes	
Economic Development Plan	Yes	
Local Emergency Operations Plan	Yes	
Continuity of Operations Plan		
Post-Disaster Recovery Plan	Yes	
Transportation Plan	Yes	1. As an element in the Master Plan
Stormwater Management Plan	Yes	1. As an element in the Master Plan
Community Wildfire Protection Plan		



CAPABILITY ASSESSMENT WORKSHEET

Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)		
Building Code, Permitting, and Inspections	Yes/No	Are codes adequately enforced?
Building Code	Yes	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score		Score:
Fire Department ISO rating		Rating:
Site Plan Review Requirements	Yes	
Land Use Planning and Ordinances	Yes/No	Is the ordinance an effective measure for reducing hazard impacts? Is the ordinance adequately administered and enforced?
Zoning Ordinance	Yes	
Subdivision Ordinance	Yes	
Floodplain Ordinance	Yes	Flood Damage Prevention Ordinance
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	Stormwater Control Ordinance
Flood Insurance Rate Maps		
Acquisition of Land for Open Space and Public Recreation Uses		
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	No	



CAPABILITY ASSESSMENT WORKSHEET

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

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	
Mitigation Planning Committee		
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)		
Mutual Aid Agreements		
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		
Floodplain Administrator	Yes	
Emergency Manager	Yes	
Community Planner	Yes	



CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	
Surveyor	No	
GIS Coordinator	Yes	
Scientists familiar with the hazards of the community	Yes	
Other		
Technical	Yes/No	Describe capability Has capability been used to access/mitigate risk in the past?
Warning Systems/Services (Reverse 911, outdoor warning signals)	Yes	Code Red, AM broadcast station that broadcasts NOAA Weather for Spring Lake, Emergency siren at DPW, Reverse 911,
Hazard Data and Information		
Grant Writing	Yes	
Hazus Analysis	Yes	
Other		
How can the above capabilities be expanded and improved to reduce risk?		



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	
Authority to Levy Taxes for Specific Purposes	Yes	
Fees for Water, Sewer, Gas, or Electric Services	Yes	
Impact Fees for New Development	No	
Stormwater Utility Fee		
Incur Debt Through Private Activities	No	
Community Development Block Grant	Yes	
Other Federal Funding Programs	Yes	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	Yes	Incur Debt through General Obligation Funds and Incur Debt through Special Tax and Revenue Bonds
How can these capabilities be expanded and improved to reduce risk?		



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.

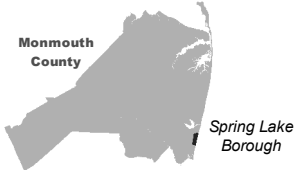
Program/Organization	Yes/No	Describe program/organization and how it relates to disaster resilience and mitigation. Could the program/organization help implement future mitigation activities?
Local Citizen Groups or Non-Profit Organizations Focused on Environmental Protection, Emergency Preparedness, Access and Functional Needs Populations, etc.		
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Website has Family Preparedness Plan information
Natural Disaster or Safety Related School Programs		
StormReady Certification		
Firewise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues		
Other		
How can these capabilities be expanded and improved to reduce risk?		





SPRING LAKE 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

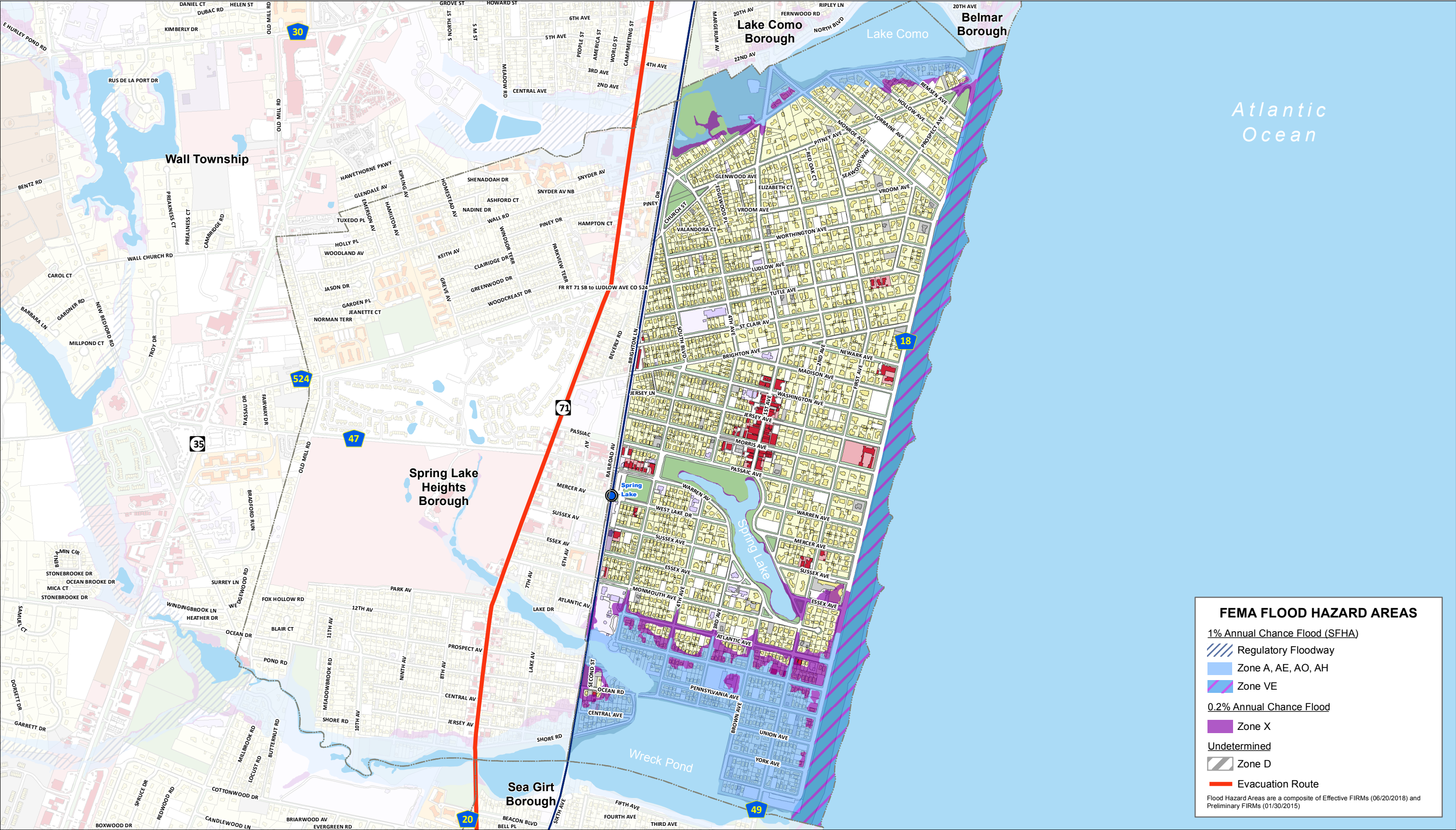
Parcel Classification

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

0 600 1,200 Feet

N

Source: 2014 Esri; Monmouth County; NJOT-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 NJOT-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.



SPRING LAKE BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

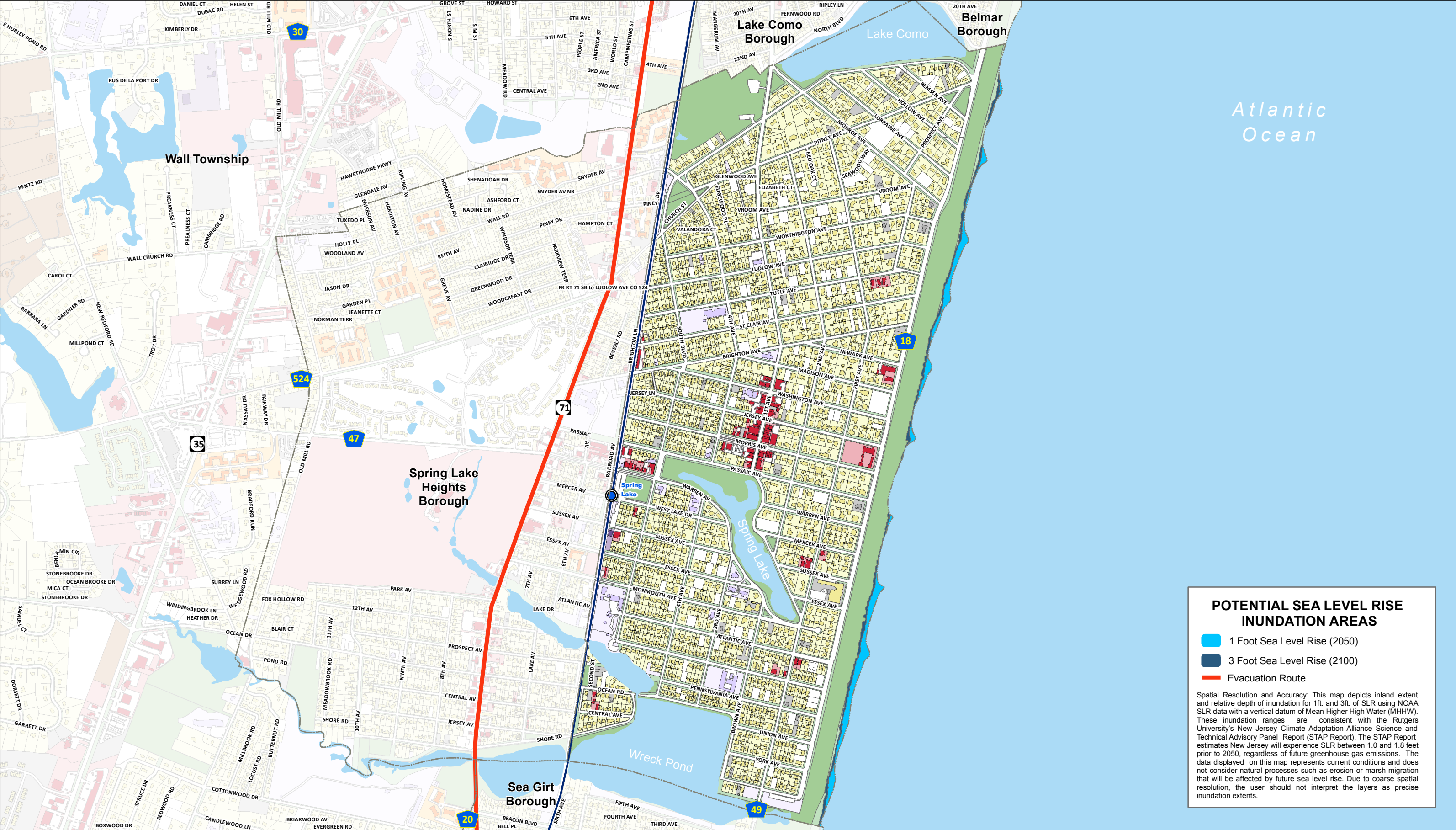
Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified

Parcel Classification

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

0 600 1,200 Feet

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



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

Topic: Spring Lakes Borough- Monmouth County HMP Update Meeting

Date: June 24, 2019

Time: 10:00 AM- 10:30 AM

Location: Call in Meeting

Attendees:

Brian	Dempsey	Borough Administrator
Edwin	Hale	OEM Coordinator
Edward	Kerr	Police Chief

Drafted by: Paige Kaspar

Introductions (Brittany):

- What is Hazard Mitigation Planning
- Grants/ Funds available to you
 - Hazard Mitigation Assistance Programs
- RL and SRL properties
- Mitigation Action Examples
- Goals and Identified Hazards

2015 Mitigation Actions:

- Mitigation Action 1: Wreck Pond-Sluice Gate Installation → Completed
 - Resiliency grants, HMGP, Borough money
- Mitigation Action 2: Dredging of Wreck Pond: Phase III → Completed
 - Monmouth County dredged Wreck Pond. Borough reimbursed the County.
 - Through a separate agreement
 - Resiliency grants and US Fish & Wildlife money
- Mitigation Action 3: Reconstruction of Existing Coastal System at Pier Beach → Completed
- Mitigation Action 4: Improve Water Quality of Wreck Pond. → Parts completed but ongoing action
 - Grants and Borough money
 - 5,000 acres watershed
 - The outlet from Brown Ave → top 10 beach closures



- Regional/WMA level effort
- Mitigation Action 5: Bypass Culvert from the Emergency Spillway to Ocean → Completed
 - Outfall pipe is closed during the summer months due to the length of the pipe being too short and allowing stormwater pollutants to run into the ocean.
- Mitigation Action 6: Lake Como Outflow Reconstruction Project → Completed by Belmar
 - Doubled the capacity. Operated by Belmar
 - Wreck Pond flooding worse on Spring Lake side and Lake Como flooding worse on Belmar side, but SW goes through Spring Lake
- Mitigation Action 7: Elevate Residential Structures → Ongoing.
 - Estimated around ten properties mitigated.

2020 Mitigation Actions:

- Dredging of Wreck Pond.
 - Materials dredged from the middle of the pond can not be reused on the beach and must be trucked out. This results in higher costs.
- Oil separators for discharged water in both Wreck Pond and Lake Como. This will increase water quality. (incorporate into 49_04)
- Generators:
 - Borough Hall → acts as a command center
 - HW Mountz School
 - Fire house/first aid station
- Bollards around Police Station Headquarters and surveillance

Questions:

- Are second homes eligible for funding?
 - Damages to a secondary or vacation home are not eligible under FEMA's disaster assistance program. However, if you own a secondary home that is rented out or occupied by a family member, you may be eligible for a low-interest loan from the Small Business Administration (SBA).



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Meeting: _____ Spring Lake Borough _____ Date: 06-24-19 _____

Initial	Last Name	First Name	Title	Organization	Email Address
	<i>Ashman</i>	<i>Brittany</i>	Planner	MB	
	<i>Kasper</i>	<i>Paige</i>	Planner	MB	
	<i>Kerr</i>	<i>Edward</i>	Police Chief	Spring Lake	ekerr_springlakeboro.org
	<i>Dempsey</i>	<i>Bryan</i>	Borough Administrator	Spring Lake	bdempsey_springlakeboro.org
	<i>Hale</i>	<i>Edwin</i>	OEM Coordinator	Spring Lake	sloem_springlakeboro.org