

## *Appendix Vol I.45 Shrewsbury 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

**34** *Polices In-force*

**10** *Total Losses*

**\$116,816** *Total Payments*

**1** *Number of RL Properties*

**0** *Number Mitigated  
RL Properties*

**2** *RL - Total Losses*

**\$5,628** *RL - Total Paid*

**0** *Number of SRL Properties*

**0** *Number Mitigated SRL  
Properties*

**0** *SRL - Total Losses*

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

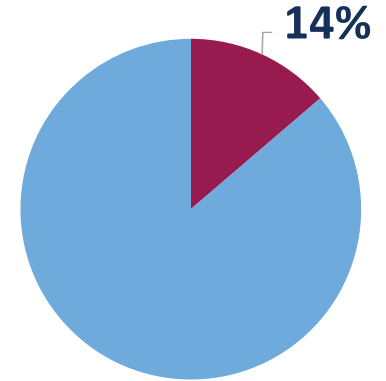


## Critical Facilities

**14** *Critical Facilities*

**1** *Critical Infrastructure*

**91** *Historic & Cultural Resources*



Percent Land Area Within SFHA

**7**

*Total Mitigation  
Actions*

**1**



*Education and Awareness Programs*

**6**



*Structure and Infrastructure Projects*

**0**



*Local Plans and Regulations*

**0**



*Natural Systems Protection*



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

**556** *Population at Risk (2017)*



Shrewsbury, 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
45_01	Purchase and Install a Generator at Critical Facilities	Obtain emergency generators for the municipal building housing essential services, the Police Department, Emergency Operations Center, and 167-person meeting room which will serve as a shelter.		Structure and Infrastructure Project	All Hazards			Borough Engineer	Mitigation Grant with 25% local match	\$95,000.00		Completed
45_02	Establish Public Awareness and Education Programs	Work with municipal and community stakeholders to setup a committee to develop all hazard education program including web resources and handouts. Specifically develop checklists and steps that individual residents can use to evaluate their own and immediately surrounding properties for potential impact and damage sources.	Administrative	Education and Awareness Programs	All Hazards	Medium	Low	OEM and LEPC directives and plans.	OEM municipal budget	\$2,000.00	5 + years	Ongoing
45_03	Relocate the First Aid Squad Outside Flood-prone Area	The First Aid Squad is located in an area that is prone to flooding. Although the building itself does not flood, the access road floods frequently reducing accessibility to the building. The town is considering moving the squad to a more desirable location.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	Low	Medium	First Aid Squad	Capital budget and First Aid Squad Budget; FEMA HMA	\$500,000.00	1 year	Ongoing
45_04	Upgrade Drainage System and De-snag and Clean the Little Silver Creek	Replacement and upgrade of stormwater drainage infrastructure, stream clearing, and desnagging of Little Silver Creek.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	Low	Low	Borough Engineer	Municipal budget	\$150,000.00	5 + years	Ongoing
45_05	Blades Run and Winding Brook Run Stabilization Project	Improve Winding Brook Way and Blades Run through soil stabilization, roadbed drainage system installations, and stormwater and sewer improvements.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm			Borough Engineer		\$522,769.00		Completed
45_06	Purchase and Install Emergency Generator	Providing emergency backup power to police department, emergency management operations center, and 167-person meeting room which will serve as a shelter.		Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge					\$120,000.00		Withdrawn
45_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	Mitigate flood-prone residential structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List. There is one property that is on the Borough's RL list.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Winter Storm	High	Medium	Construction Official	FEMA HMA		1 year	Ongoing



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_01

Shrewsbury, Borough of

## Describing the Action

Action Name:	Purchase and Install a Generator at Critical Facilities
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Obtain emergency generators for the municipal building housing essential services, the Police Department, Emergency Operations Center, and 167-person meeting room which will serve as a shelter.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 6, 7
Risk Reduction:	Police department, dispatch center, evacuation shelter, and OEM EOC are on limited back up power in the event of power outage.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it supports local services during emergencies.
Administrative Capability:	Oversight by Borough Engineer
Local Champion:	Police Department, Office of Emergency Management
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$95,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Building Construction Code Approval
Likely Funding Source(s):	Mitigation Grant with 25% local match
Timeline:	
Action Status:	Completed
Notes:	Borough Hall generator (HMGP) \$113,165



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_02

Shrewsbury, Borough of

## Describing the Action

Action Name:	Establish Public Awareness and Education Programs
Action Category:	Administrative
Action Type:	Education and Awareness Programs
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Work with municipal and community stakeholders to setup a committee to develop all hazard education program including web resources and handouts. Specifically develop checklists and steps that individual residents can use to evaluate their own and immediately surrounding properties for potential impact and damage sources.

## Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	3, 4, 7
Risk Reduction:	The general public's understanding of natural hazards and mitigation possibilities could be improved. The community's overall level disaster resistance would increase if a greater number of households undertook low-cost or no-cost, small-scale mitigation activities.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated.
Social:	Provides education to all social groups.
Administrative Capability:	Administered by OEM and IT staff.
Local Champion:	Office of Emergency Management and CERT members
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$2,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	OEM and LEPC directives and plans.
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	OEM municipal budget
Timeline:	5 + years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the Borough hosts events annually and would like to add more outreach programs; the Borough also uses its webpage and Facebook page for mitigation outreach.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_03

Shrewsbury, Borough of

## Describing the Action

Action Name:	Relocate the First Aid Squad Outside Flood-prone Area
Action Category:	Mitigation - Continuity of Fuctional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Property Acquisition and Structure Demolition
Action Description:	The First Aid Squad is located in an area that is prone to flooding. Although the building itself does not flood, the access road floods frequently reducing accessibility to the building. The town is considering moving the squad to a more desirable location.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 3, 7
Risk Reduction:	Flooding has stranded first responders en route to the building and therefore they cannot perform emergency services which puts human life at risk.
Technical:	Technically feasible.
Political:	Town Council supports the project.
Legal:	No legal impediments anticipated.
Environmental:	No adverse environmental impact anticipated
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because it supports local services during emergencies. However, the current building is used as a voting location. New voting facility will have to identified.
Administrative Capability:	First Aid command staff will work with zoning and planning office.
Local Champion:	Office of Emergency Management and First Aid Squad.
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$500,000.00
Priority:	Low
Scale of Ease of Implementation:	Medium
Responsible Party:	First Aid Squad
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Capital budget and First Aid Squad Budget; FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the CBA is less than one. HMA as a potential funded source of \$500,000.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_04

Shrewsbury, Borough of

## Describing the Action

Action Name:	Upgrade Drainage System and De-slag and Clean the Little Silver Creek
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Replacement and upgrade of stormwater drainage infrastructure, stream clearing, and desnagging of Little Silver Creek.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5, 6
Risk Reduction:	Monroe Ave. floods during heavy precipitation due to an ineffective drainage system and clogged stream.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	Coordination and permitting from NJDEP may be required.
Environmental:	Positive environmental benefits from stream restoration.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because stream restoration will protect the properties of Monroe Ave. and Borough roadways.
Administrative Capability:	Borough Engineer
Local Champion:	Local homeowners.
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$150,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Local permitting and state oversight of stream work
Likely Funding Source(s):	Municipal budget
Timeline:	5 + years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; acquired a Jet truck for sewer cleaning and some work has been completed; more streams in the borough need to be cleaned. Action will always be ongoing.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_05

Shrewsbury, Borough of

## Describing the Action

Action Name:	Blades Run and Winding Brook Run Stabilization Project
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Soil Stabilization
Action Description:	Improve Winding Brook Way and Blades Run through soil stabilization, roadbed drainage system installations, and stormwater and sewer improvements.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5, 6
Risk Reduction:	In-frequent inundation of floodwaters on Winding Brook Way and Blades Run has led to roadway failure.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal issues are anticipated; these are local roads.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because the roadway is safe again.
Administrative Capability:	Borough has sufficient capacity and experience to administer this action.
Local Champion:	Local Homeowners
Other Community Objectives:	
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$522,769.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	Borough Engineer
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	Blades Run Rd. complete.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_06

Shrewsbury, Borough of

## Describing the Action

Action Name:	Purchase and Install Emergency Generator
Action Category:	
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Providing emergency backup power to police department, emergency management operations center, and 167-person meeting room which will serve as a shelter.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 3, 6, 7
Risk Reduction:	Frequent power outages limit police department and emergency management functions. Current small emergency generator provides limited backup power to a portion of the building.
Technical:	Technically feasible.
Political:	Entire town council supports the project.
Legal:	No legal issues.
Environmental:	Environmental regulations fully complied with.
Social:	Provides continuous police and emergency management services and an emergency shelter that enhances quality of life.
Administrative Capability:	Borough Engineer and private contractor.
Local Champion:	Local homeowners and businesses.
Other Community Objectives:	N/A
STAPLEE Evaluation:	N/A

## Implementing the Action

Cost Estimate:	\$120,000.00
Priority:	
Scale of Ease of Implementation:	
Responsible Party:	
Local Planning Mechanism:	Local permitting
Likely Funding Source(s):	
Timeline:	
Action Status:	Withdrawn
Notes:	Combining with Community Action 45_01.



# Monmouth County Mitigation Action Worksheets

Community Action Number: 45\_07

Shrewsbury, 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:	Mitigate flood-prone residential structures, with particular focus on those in our community that are on FEMA's Repetitive Loss List. There is one property that is on the Borough's RL list.

## Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Winter Storm
Goals:	1, 2, 3, 4,
Risk Reduction:	Several residential structures throughout the community are prone to flooding. with their main floor elevations below current 8FEs. Sea Level Rise and climate change will contribute to more frequent and severe flooding and surge events.
Technical:	Mitigation efforts by the Borough, especially via outreach, is technically feasible.
Political:	Political leadership supports this type of project.
Legal:	While the municipality does not own the structures in question, the Borough fully supports the homeowners in moving forward with mitigation.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	No particular social group in our community is likely to be disproportionately impacted by this project; this would be re-evaluated as particular Interested homeowners come forward.
Administrative Capability:	Our municipality has the administrative capabilities to manage an elevation and/or acquisition project
Local Champion:	Affected homeowners, elected officials
Other Community Objectives:	Improve and protect lifestyles of residents; reduction of costly property damage; resiliency; floodplain management; capital improvements.
STAPLEE Evaluation:	10

## Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Construction Official
Local Planning Mechanism:	Homeowners; Mayor; Council; Administrator; Engineer; local ordinance; Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing action; the Borough deems this action necessary and is searching for potential funding.



# CAPABILITY ASSESSMENT WORKSHEET

Name: Jerzy Chojnacki

Title: OEM Coordinator

Jurisdiction: Shrewsbury 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. 2016; No; No; No
Capital Improvements Plan	Yes	1. 2018; No; No; Yes
Economic Development Plan	Yes	
Local Emergency Operations Plan	Yes	OEM EOP 1. 2016 2. Yes 3. No 4. Yes
Continuity of Operations Plan	Yes	EOP 1. 2016 2. Yes 3. No 4. Yes
Post-Disaster Recovery Plan	Yes	EOP 1. 2016 2. Yes 3. No 4. Yes
Transportation Plan	Yes	EOP 1. 2016 2. Yes 3. No 4. Yes
Stormwater Management Plan	Yes	1. 2006; No; No; Yes
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>Master Plan Sustainability Element (2013)</li> <li>NJ FRAMES</li> </ul>
<b>Building Code, Permitting, and Inspections</b>	<b>Yes/No</b>	<b>Are codes adequately enforced?</b>
Building Code	Yes	Version/Year:
Building Code Effectiveness Grading Schedule (BCEGS) Score	Yes	Score: 3
Fire Department ISO rating	Yes	Rating:
Site Plan Review Requirements	Yes	
<b>Land Use Planning and Ordinances</b>	<b>Yes/No</b>	<b>Is the ordinance an effective measure for reducing hazard impacts?</b> <b>Is the ordinance adequately administered and enforced?</b>
Zoning Ordinance	Yes	No; Yes
Subdivision Ordinance	Yes	No; Yes
Floodplain Ordinance	Yes	Flood Damage Prevention Ordinance and Flood Insurance Ordinance
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	Stormwater control; Yes; Yes
Flood Insurance Rate Maps	Yes	
Acquisition of Land for Open Space and Public Recreation Uses	No	
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	No	





## CAPABILITY ASSESSMENT WORKSHEET

Other (ie. Special Purposes Ordinance)	Yes	Special Purposes 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.

Yes

Administration	Yes/No	Describe capability Is coordination effective?
Planning Commission	Yes	Planning Board comprised of professionals knowledgeable in various areas of planning and zoning regulations.
Mitigation Planning Committee	Yes	Local Emergency Planning Committee with expertise in mitigation and response.
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)		Shrewsbury Clean-Up day
Mutual Aid Agreements	Yes	Through OEM, Fire, Police and EMS cover emergency response and mitigation between neighboring towns and throughout the county
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	PT; Yes; No; Yes
Floodplain Administrator	Yes	PT; Yes; No; Yes
Emergency Manager	Yes	PT; Yes; Yes; Yes
Community Planner	Yes	PT; Yes; No; Yes





## CAPABILITY ASSESSMENT WORKSHEET

Civil Engineer	Yes	PT; Yes; No; Yes
Surveyor	Yes	PT; Yes; No; Yes
GIS Coordinator	Yes	PT; Yes; No; Yes
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	Outdoor sirens Code Red Website links to FEMA
Hazard Data and Information	Yes	SEE ABOVE
Grant Writing	Yes	Conducted by individual department. Used in the past for flooding projects and infrastructure repairs and for emergency generator
Hazus Analysis	Yes	
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. Infrastructure maintenance
Authority to Levy Taxes for Specific Purposes	Yes	Yes. Enforce property maintenance
Fees for Water, Sewer, Gas, or Electric Services	No	
Impact Fees for New Development	Yes	
Stormwater Utility Fee	No	Yes. COAH trust fund.
Incur Debt Through Private Activities	Yes	
Community Development Block Grant	No	
Other Federal Funding Programs	Yes	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	No	
<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.	Yes	Environmental Commission Community Emergency Response Team (CERT)
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	<ul style="list-style-type: none"> <li>• Fire prevention flyers</li> <li>• Fire Department visits schools</li> <li>• EMS community Days</li> <li>• The Grove Harvest Fest</li> <li>• National Night Out</li> <li>• Emergency generator safety</li> <li>• Fire Alarm checks/Smoke Alarm checks</li> <li>• Go-packs</li> <li>• Schools drills</li> </ul>
Natural Disaster or Safety Related School Programs	Yes	School Based training
StormReady Certification	No	
Firewise Communities Certification	No	
Public-Private Partnership Initiatives Addressing Disaster Related Issues	Yes	Agreements with Assisted Living facilities
Other		Public awareness and education programs: a hazard education program was developed that includes web resources and handouts (from 2015 actions)
<b>How can these capabilities be expanded and improved to reduce risk?</b>		
























A map of Monmouth County, New Jersey, with Shrewsbury Borough highlighted in a darker shade to indicate its location within the county.

**Parcel 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



**Michael Baker**  
INTERNATIONAL

This map displays the FEMA Flood Hazard Areas for the Little Silver, NJ region. The map includes the following information:

- FEMA Flood Hazard Areas:**
  - 1% Annual Chance Flood (SFHA):**
    - Regulatory Floodway (indicated by blue hatched lines)
    - Zone A, AE, AO, AH (indicated by light blue)
    - Zone VE (indicated by pink)
  - 0.2% Annual Chance Flood:**
    - Zone X (indicated by purple)
  - Undetermined:**
    - Zone D (indicated by grey hatched lines)
- Evacuation Route:** Indicated by a thick red line.
- Geographic Labels:** Red Bank Borough, Little Silver Borough, Tinton Falls Borough, Shrewsbury Township, Eatontown Borough, and Oceanport Borough.
- Infrastructure:** Major roads (e.g., I-95, I-195, I-278, I-33, I-51, I-13, I-13A, I-11) and local streets are shown.
- Water Bodies:** Parkers Creek and other water features are depicted in blue.
- Legend:** A legend in the bottom right corner explains the symbols and colors used for flood zones and evacuation routes.
- Source:** 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.





# SHREWSBURY BOROUGH FLOOD VULNERABILITY

MONMOUTH COUNTY HAZARD MITIGATION PLAN



Building Classification

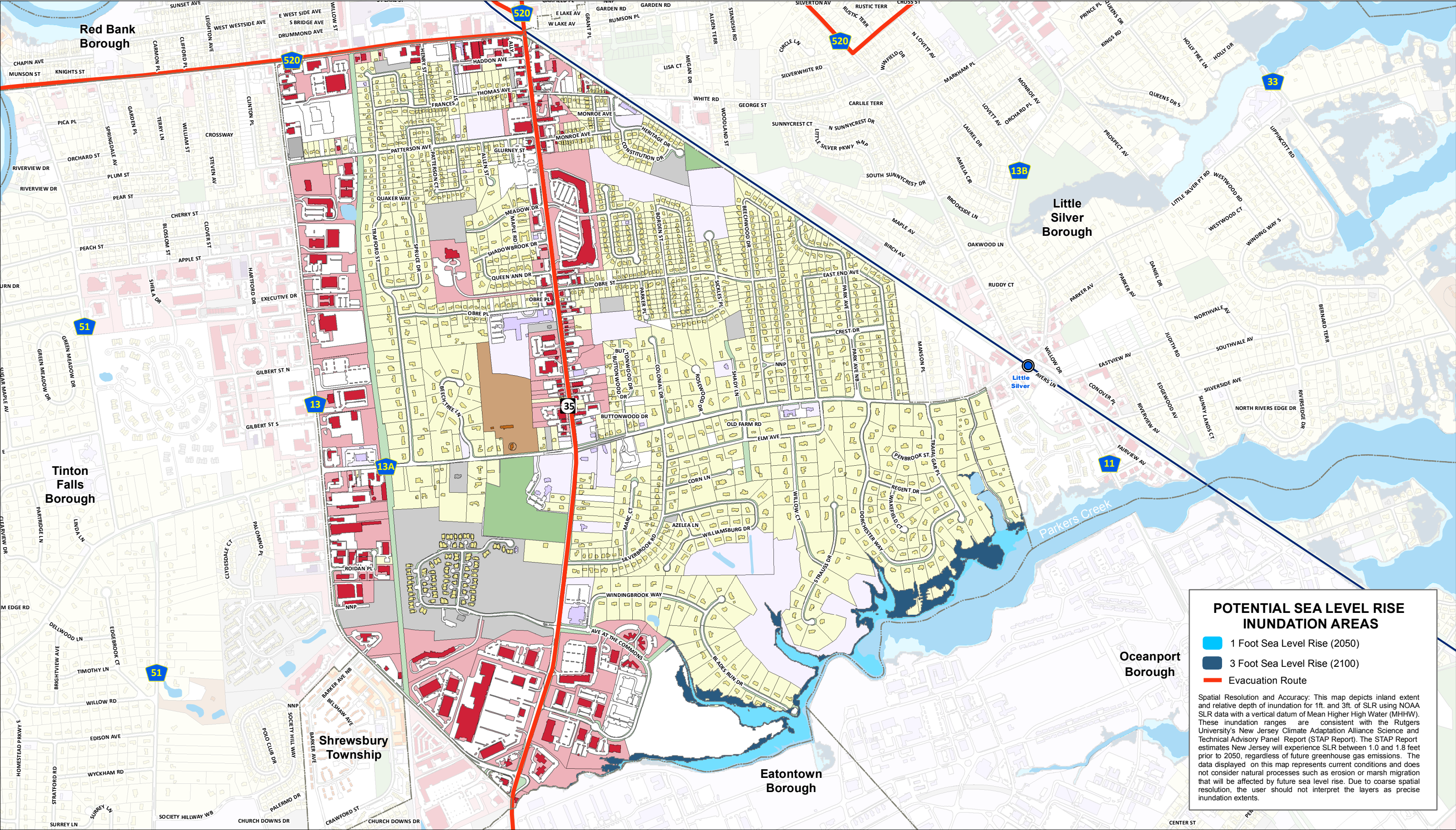
Industrial	Commercial	Apartment	Residential (four families or less)
Farm	Vacant	Civic/Public (Tax Exempt)	Unclassified

Parcel Classification

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

0 550 1,100 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

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**Topic:** Shrewsbury Borough- Monmouth County HMP Update Meeting

**Date:** June 18, 2019

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

**Location:** 419 Sycamore Ave, Shrewsbury, NJ

**Attendees:**

Erik	Anderson	Mayor
Jerry	Chojnacki	OEM Coordinator
David	Cranmer	Engineer
Maureen	Muttie	Clerk / Admin
Ronald	Neis	Manager DPW
Edward	Nolan,	Mayor
Tom	Welsh,	Fire Marshal / OEM

**Drafted by:** Paige Kaspar

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**Introductions (Paige):**

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

**2015 Mitigation Actions:**

- Community Action 45\_01 New Emergency Generator **Completed**
  - o HMA funded
- Community Action 45\_02 Public Awareness & Education Programs **Ongoing**
  - o This will be moved to the capability worksheet
  - o More outreach programs will be added
  - o Outreach through events and internet
  - o Need to include new Critical Facilities Lightbridge, S/S Shrewsbury, childcare
- Community Action 45\_03 Relocation of First Aid Squad out of flood prone area **Ongoing**





## Monmouth County Multi-Jurisdictional Hazard Mitigation Plan Update



- Priority is Low
  - Less than 1 cost/benefit
  - HMA as a potential funded source - \$500,000
- Community Action 45\_04 Drainage improvement and stream cleaning **Ongoing**
  - Acquired Jet truck for sewer cleaning- some has been done
  - More streams need to be cleaned
  - Action is ongoing as needed
- Community Action 45\_05 Roadway stabilization and drainage improvements **Completed**
  - Blades Run Rd.
- Community Action 45\_06 Emergency Generator **Completed**
  - One generator covers all → from Community Action 01
- Community Action 45\_07 Elevation and/or Acquisition of flood-prone residential structures **Ongoing**
  - One property has had repairs
  - Houses are protected

### Concerns:

- Downed power lines
- School Safety
- No Shelter





Monmouth County  
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker  
INTERNATIONAL

Meeting: Shrewsbury Boro HMP

Date: 06-18-19

Initial	Last Name	First Name	Title	Organization	Email Address
	Ashman	Brittany	Planner	MB	
	BARRIS	Joseph	Planner	Men Co.	JOE.BARRIS@CO.MONMOUTH.NJ.US
	CHOSINACI	JERRY	CEM COORD	SHREWSBURY	SHREWSBURYCEM@YAHOO.COM
	Neis	Ronald	Manager DFW	Shrewsbury	NEIS@shrewsburyboro.com
	Muttre	Maureen	Clerk/Admin	Shrewsbury	mmuttre@shrewsburyboro.org
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