

Appendix Vol I.50 Union Beach 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

1,148 *Polices In-force*

1,550 *Total Losses*

\$89,305,742 *Total Payments*

83 *Number of RL Properties*

34 *Number Mitigated
RL Properties*

243 *RL - Total Losses*

\$11,112,424 *RL - Total Paid*



2 *Number of SRL Properties*

0 *Number Mitigated SRL
Properties*

11 *SRL - Total Losses*

\$845,192 *SRL - Total Paid*

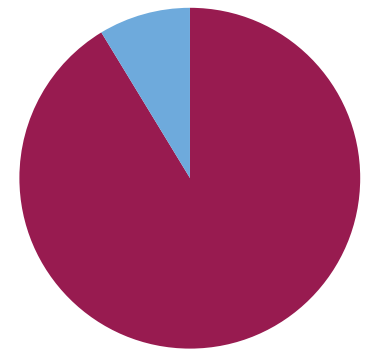
Critical Facilities



12 *Critical Facilities*

0 *Critical Infrastructure*

13 *Historic & Cultural Resources*



91%

Percent Land Area Within SFHA

16

*Total Mitigation
Actions*

1



Education and Awareness Programs

14



Structure and Infrastructure Projects

0



Local Plans and Regulations

1



Natural Systems Protection



1 *SV Population At Risk (2017)*

5,144 *Population at Risk (2017)*

| Union Beach, 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 |
| 50_01 | Implement the Army Corps of Engineers Shore Protection and Flood Control Plan for Flood Reduction Projects | The Army Corp Plan includes the following recommendations: installation of earthen levees, concrete flood walls, interior levees, primary and secondary drainage outlet structures, tide gate structures, road closure gate, road raising, three pump stations, beach fill and dune, two terminal groins, beach and dune nourishment every nine years. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | High | Mayor and Borough Council, ACOE, NJDEP | FEMA Hazard Mitigation Grant, Borough funding, Army Corp of Engineers, NOAA, | \$275,000,000.00 | 1 year | Ongoing |
| 50_02 | 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 approximately 1,222 homes. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Homeowners and/or Borough Administrator | FEMA HMA | \$82,200,000.00 | 2 years | Ongoing |
| 50_03 | Elevate Spruce Street, Center Street, and Fifth Street | Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area. | | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | | | Borough administrator | FEMA Hazard Mitigation Grant, Borough funding | \$684,457.50 | | Completed |
| 50_04 | Elevate Front Street | Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Administrator | FEMA Hazard Mitigation Grant, Borough funding, County Funding, NJDOT | \$400,000.00 | 1 year | Ongoing |
| 50_05 | Relocate Department of Public Works Main Building out of Flood Zone | Relocate Department of Public Works main building to a location above the FEMA working FIRM maps. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Administrator | FEMA HMA, Borough funding, CDBG- DR | \$1,500,000.00 | 1 year | Ongoing |
| 50_06 | Relocate Harris Garden Fire Company Building (Station 65-4) outside a Flood Zone | Relocate Harris Garden Fire Company Building to a location above the FEMA working FIRM maps. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Administrator | FEMA Hazard Mitigation Grant, Borough funding, CDBG | \$1,500,000.00 | 1 year | Ongoing |
| 50_07 | Elevate Florence Ave. | Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge | High | Medium | Borough Administrator, Monmouth County | FEMA Hazard Mitigation Grant, Borough funding, County funding | \$300,000.00 | 1 year | Ongoing |
| 50_08 | Install Flood Warning Signage | Installation of flood warning signage. | Administrative | Structure and Infrastructure Project | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge | High | Low | Office of Emergency Management | Borough funding | \$5,000.00 | 1 year | Ongoing |

| Union Beach, 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 |
| 50_09 | Stream/Creek Cleaning and Maintenance | Debris and sediment accumulation in receiving waterways and creeks impedes flood flows. | | Structure and Infrastructure Project | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge | | | Public Works, County Mosquito Commission | NRCS, HMA | \$5,000.00 | | Completed |
| 50_10 | Maintenance of Shore Protection Programs | Maintenance of the existing shore protection features. | | Structure and Infrastructure Project | Flood, Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge | | | Borough Engineer, Public Works | FEMA Hazard Mitigation Grant, Borough funding | \$100,000.00 | | Completed |
| 50_11 | Construct a Stone Revetment Wall | Construct a stone revetment wall along the Raritan Bay Waterfront beginning at the point of juncture of the Raritan Bay and Flat Creek and continuing east along the Borough's bay front for approximately 875 linear feet. | Mitigation - Risk Reduction | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | Medium | Medium | Borough Administrator | FEMA Hazard Mitigation Grant, Borough funding | \$1,900,000.00 | 5 + years | Ongoing |
| 50_12 | Storm Drain/Inlet Maintenance | Cleaning and maintenance of the existing storm drains and inlets. | | Structure and Infrastructure Project | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge | | | Public Works | Borough funding, FEMA grant funding | \$5,000.00 | | Completed |
| 50_13 | Update the Borough's Emergency Warning System | Upgrade Borough's existing emergency warning system. | Administrative | Education and Awareness Programs | Extreme Temperatures, Flood, Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Storm Surge, | Medium | Low | Office of Emergency Management, Police Department | Borough funding | \$700,000.00 | 1 year | Ongoing |
| 50_14 | Purchase and Install Generators for Memorial School and Borough Hall | Memorial School and Borough Hall need generators in order to operate as shelters. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | All Hazards | High | Low | Borough Administration | FEMA HMA | \$400,000.00 | 1 year | New |
| 50_15 | Elevate Park Avenue | Elevate Park Avenue to keep roadway clear from flooding. | Mitigation - Continuity of Fuctional Use | Structure and Infrastructure Project | Flood, Hurricane and Tropical Storm | High | Medium | Borough Administration | FEMA HMA, Borough funding | | 1 year | New |
| 50_16 | Restore the Marsh Surrounding Flat Creek and Create an Upland Maritime Forest Berm | Restore the marsh surrounding Flat Creek and create an upland maritime forest berm buffering local residences from the marsh. The proposed concept could enhance, but not interfere with any USACE work for Union Beach, and help reduce flooding on Route 36, which provides access to the NWS Earle Pier Complex. | Mitigation - Continuity of Fuctional Use | Natural Systems Protection | Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge | High | Low | Borough, County | New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife | | 2 years | New |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_01

Union Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Implement the Army Corps of Engineers Shore Protection and Flood Control Plan for Flood Reduction Projects |
| Action Category: | Mitigation - Risk Reduction |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Localized Flood Risk Reduction Projects |
| Action Description: | The Army Corp Plan includes the following recommendations: installation of earthen levees, concrete flood walls, interior levees, primary and secondary drainage outlet structures, tide gate structures, road closure gate, road raising, three pump stations, beach fill and dune, two terminal groins, beach and dune nourishment every nine years. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Wave Action, Coastal Erosion, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 1, 2, 3, 5, 6 |
| Risk Reduction: | The Army Corps of Engineers Shore Protection and Flood Control Project for Union Beach should be implemented and maintained to provide shore protection and flood control in the Borough. |
| Technical: | Technically feasible. |
| Political: | Advised by council and the Mayor. |
| Legal: | The community has the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | No negative social effects going forward with this project. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and cons. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | 9 |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$275,000,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | High |
| Responsible Party: | Mayor and Borough Council, ACOE, NJDEP |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding, Army Corp of Engineers, NOAA, |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action. Phase 1: acquire 5-10 beachfront properties and obtain 300 easements to allow for the work. Phase 2: levees, flood wall, pump stations, flood gates. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_02

Union Beach, 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 approximately 1,222 homes. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 1, 2, 3, 6 |
| Risk Reduction: | Reduce potential damages to residential structures from high flood waters caused by Hurricanes, Tropical Storms, and Nor'easters. The entirety of Union Beach is within mapped surge hazard areas, and nearly all of the Borough was inundated during Superstorm Sandy. The Borough incurred millions of dollars in losses, and roughly 250 homes were destroyed. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | Property owners may need to relocate while the home raising is implemented. |
| Administrative Capability: | The community does have the personnel and homeowners will maintain projects. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | 10 |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$82,200,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Homeowners and/or Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents, additionally current code r |
| Likely Funding Source(s): | FEMA HMA |
| Timeline: | 2 years |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; 300-400 homes have been elevated, roughly 800 more homes need to be elevated. Since several of these homes are RL or SRL, the Borough will look into FEMA's PDM funding. Cost of project is roughly \$100,000 per home elevation. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_03

Union Beach, Borough of

Describing the Action

Action Name: Elevate Spruce Street, Center Street, and Fifth Street

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Structure Elevation

Action Description: Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area.

Evaluating the Action

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

Goals: 2, 3, 7

Risk Reduction: The intersection of Spruce Street, Center Street and Fifth Street intersection and Pine Street and Third Street intersection is not at a sufficient elevation and is subject to flooding. These two roadways are located in a residential community and provide access to the park and residential structures.

Technical: This mitigation is technically feasible.

Political: This project was advised by council and the Mayor.

Legal: The community does have the legal authority to implement this project.

Environmental: There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.

Social: There are no negative social effects going forward with this project.

Administrative Capability: The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction.

Local Champion: Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$684,457.50

Priority:

Scale of Ease of Implementation:

Responsible Party: Borough administrator

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents.

Likely Funding Source(s): FEMA Hazard Mitigation Grant, Borough funding

Timeline:

Action Status: Completed

Notes:

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_04

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Elevate Front Street |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Structure Elevation |
| Action Description: | Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 7 |
| Risk Reduction: | Reduce the incidence of flooding in the flood prone area of Front Street. Many roads in the Borough of Union Beach are flood prone. Ingress/egress becomes an issue. In addition, drivers who are unfamiliar with the area or who are caught unaware of flood conditions risk damaging personal property and life safety. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | There are no negative social effects going forward with this project. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$400,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding, County Funding, NJDOT |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; BMP application submitted by county – pending. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_05

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Relocate Department of Public Works Main Building out of Flood Zone |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Miscellaneous/Other |
| Action Description: | Relocate Department of Public Works main building to a location above the FEMA working FIRM maps. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 7 |
| Risk Reduction: | Reduce potential damages to Department of Public Works main building from high flood waters caused by storm surge. The Department of Public Works Building is located in a flood prone area and the Borough is unable to provide emergency repair services during flooding events. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, staff, and local regulations. |
| Social: | DPW workers may need to relocate while the structure is relocated |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$1,500,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | FEMA HMA, Borough funding, CDBG- DR |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; the problem with this action is there is little area outside SFHA for the new DPW building to locate and the building is not able to be floodproofed or elevated as it is too old. The front portion of the building will be demolished. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_06

Union Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Relocate Harris Garden Fire Company Building (Station 65-4) outside a Flood Zone |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Miscellaneous/Other |
| Action Description: | Relocate Harris Garden Fire Company Building to a location above the FEMA working FIRM maps. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 7 |
| Risk Reduction: | The Harris Garden Fire Company Building is located in a flood-prone area and the Borough is unable to provide firefighting services during flooding events. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, staff, and local regulations. |
| Social: | Harris Garden Fire Company workers may need to relocate while the structure is relocated. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain the Borough would have to bid the engineering and construction. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$1,500,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding, CDBG |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; the Borough would like to consolidate Station 65-4 with Station 65-3 (located out of the SFHA). Station 65-1 and Station 65-2 are also considering consolidation to 65-3. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_07

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Elevate Florence Ave. |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Structure Elevation |
| Action Description: | Raising the elevation of the roadway to decrease the occurrence and severity of flooding in the area. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 7 |
| Risk Reduction: | A section of Florence Avenue is not at a sufficient elevation, and is subject to flooding. This road is important for maintaining egress and ingress in the municipality. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, staff, and local regulations. |
| Social: | There are no negative social effects going forward with this project. |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the engineering and construction. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|---|
| Cost Estimate: | \$300,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator, Monmouth County |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding, County funding |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; County will raise road Florence Ave with their bridge elevation project. Currently in the design/permit phase. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_08

Union Beach, Borough of

Describing the Action

Action Name: Install Flood Warning Signage

Action Category: Administrative

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Miscellaneous/Other

Action Description: Installation of flood warning signage.

Evaluating the Action

Hazard(s) Addressed: Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge

Goals: 3, 7

Risk Reduction: Many roads in the Borough of Union Beach are flood-prone. Ingress/egress becomes an issue. In addition, drivers who are unfamiliar with the area or who are caught unaware of flood conditions risk.

Technical: This mitigation is technically feasible.

Political: This project was advised by council and the Mayor.

Legal: The community does have the legal authority to implement this project.

Environmental: There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.

Social: There are no negative social effects going forward with this project.

Administrative Capability: The Borough has the personnel and administrative capability.

Local Champion: Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$5,000.00

Priority: High

Scale of Ease of Implementation: Low

Responsible Party: Office of Emergency Management

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents.

Likely Funding Source(s): Borough funding

Timeline: 1 year

Action Status: Ongoing

Notes: Ongoing 2015 action; radio station down, need to purchase new signs. Electric capabilities are already on poles.

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_09

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Stream/Creek Cleaning and Maintenance |
| Action Category: | |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Localized Flood Risk Reduction Projects |
| Action Description: | Debris and sediment accumulation in receiving waterways and creeks impedes flood flows. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Extreme Wind, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 3, 5, 6 |
| Risk Reduction: | Cleaning and maintenance of waterways. These are priority for the Borough in order to ensure property drainage of flood waters and to reduce flooding events. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | There are no negative social effects going forward with this project. |
| Administrative Capability: | The Borough does have the personnel and administrative capability. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$5,000.00 |
| Priority: | |
| Scale of Ease of Implementation: | |
| Responsible Party: | Public Works, County Mosquito Commission |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | NRCS, HMA |
| Timeline: | |
| Action Status: | Completed |
| Notes: | Now an ongoing capability and part of the Public Works Maintenance Program. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_10

Union Beach, Borough of

Describing the Action

Action Name: Maintenance of Shore Protection Programs

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Maintenance of the existing shore protection features.

Evaluating the Action

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

Goals: 2, 3, 4, 5, 6

Risk Reduction: The existing shore protection features (bulkhead, beach area) are the borough's first line of defense against wave action, storm surge, and flooding during storm events. Gaps in the line of protection, variations in the design level, or unmitigated circumstances that compromise the function of the overall system increase the vulnerability of people and property in the protected area.

Technical: This mitigation is technically feasible.

Political: This project was advised by council and the Mayor.

Legal: The community does have the legal authority to implement this project.

Environmental: There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.

Social: There are no negative social effects going forward with this project.

Administrative Capability: The community does have the personnel and administrative capability to maintain it.

Local Champion: Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$100,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Borough Engineer, Public Works

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents

Likely Funding Source(s): FEMA Hazard Mitigation Grant, Borough funding

Timeline:

Action Status: Completed

Notes: Now an ongoing capability and part of the Public Works Maintenance Program. Tied to the Army Corp project.

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_11

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Construct a Stone Revetment Wall |
| Action Category: | Mitigation - Risk Reduction |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Localized Flood Risk Reduction Projects |
| Action Description: | Construct a stone revetment wall along the Raritan Bay Waterfront beginning at the point of juncture of the Raritan Bay and Flat Creek and continuing east along the Borough's bay front for approximately 875 linear feet. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | Flood, Extreme Wind, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 2, 3, 4, 5, 6 |
| Risk Reduction: | The existing shore protection features bulkhead and a wide beach, which are the borough's first line of defense against wave action, storm surge, and flooding during storm events. Gaps in the line of protection, variations in the design level, or unmitigated circumstances that compromise the function of the overall system increase the vulnerability of people and property in the protected area. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community does have the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | There are no negative social effects going forward with this project |
| Administrative Capability: | The community does have the personnel and administrative capability implement this action as well as maintain it. Borough would have to bid the project and construction. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital Improvements |
| STAPLEE Evaluation: | 11 |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$1,900,000.00 |
| Priority: | Medium |
| Scale of Ease of Implementation: | Medium |
| Responsible Party: | Borough Administrator |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | FEMA Hazard Mitigation Grant, Borough funding |
| Timeline: | 5 + years |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; if the Army Corp project doesn't happen, the Borough will build the stone revetment wall. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_12

Union Beach, Borough of

Describing the Action

Action Name: Storm Drain/Inlet Maintenance

Action Category:

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Localized Flood Risk Reduction Projects

Action Description: Cleaning and maintenance of the existing storm drains and inlets.

Evaluating the Action

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

Goals: 2, 3, 4, 5, 6

Risk Reduction: Cleaning and maintenance of the existing storm drains and inlets to prevent flooding, Union Beach is highly susceptible to storm surge and flooding therefor maintaining these systems is crucial.

Technical: This mitigation action is technically feasible.

Political: This project was advised by council and the Mayor.

Legal: This project was advised by council and the Mayor.

Environmental: There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations.

Social: There are no negative social effects going forward with this project.

Administrative Capability: The community has the personnel and administrative capability to maintain.

Local Champion: Council and the Mayor

Other Community Objectives: Capital Improvements

STAPLEE Evaluation: N/A

Implementing the Action

Cost Estimate: \$5,000.00

Priority:

Scale of Ease of Implementation:

Responsible Party: Public Works

Local Planning Mechanism: Mitigation activities will be implemented according to all governing regulatory documents.

Likely Funding Source(s): Borough funding, FEMA grant funding

Timeline:

Action Status: Completed

Notes: Now an ongoing capability and part of the Public Works Maintenance Program.

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_13

Union Beach, Borough of

Describing the Action

| | |
|------------------------|--|
| Action Name: | Update the Borough's Emergency Warning System |
| Action Category: | Administrative |
| Action Type: | Education and Awareness Programs |
| HMA Eligible Activity: | Miscellaneous/Other |
| Action Description: | Upgrade Borough's existing emergency warning system. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Extreme Temperatures, Flood, Extreme Wind, Lightening, Nor'easter, Hurricane and Tropical Storm, Storm Surge, Wi |
| Goals: | 3, 7 |
| Risk Reduction: | Keeping the public informed of incoming atmospheric hazards is crucial to the health and safety of borough residents during storm events. Upgrading the existing system will keep the system capable with surrounding communities and the county. |
| Technical: | This mitigation is technically feasible. |
| Political: | This project was advised by council and the Mayor. |
| Legal: | The community has the legal authority to implement this project. |
| Environmental: | There are no negative environmental impacts caused by this project and it will comply with all federal, state, and local regulations. |
| Social: | There are no negative social effects going forward with this project. |
| Administrative Capability: | The community has the personnel and administrative capability to maintain the storm drains. |
| Local Champion: | Council and the Mayor |
| Other Community Objectives: | Capital improvements |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | \$700,000.00 |
| Priority: | Medium |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Office of Emergency Management, Police Department |
| Local Planning Mechanism: | Mitigation activities will be implemented according to all governing regulatory documents. |
| Likely Funding Source(s): | Borough funding |
| Timeline: | 1 year |
| Action Status: | Ongoing |
| Notes: | Ongoing 2015 action; the Borough would like three new sirens. |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_14

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Purchase and Install Generators for Memorial School and Borough Hall |
| Action Category: | Mitigation - Continuity of Fuctional Use |
| Action Type: | Structure and Infrastructure Project |
| HMA Eligible Activity: | Generators |
| Action Description: | Memorial School and Borough Hall need generators in order to operate as shelters. |

Evaluating the Action

| | |
|-----------------------------|--|
| Hazard(s) Addressed: | All Hazards |
| Goals: | 7 |
| Risk Reduction: | Both Memorial School and Borough Hall lose power during severe events and need generators to operate as shelters. |
| 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: | 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: | \$400,000.00 |
| Priority: | High |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough Administration |
| Local Planning Mechanism: | EOP |
| Likely Funding Source(s): | FEMA HMA |
| Timeline: | 1 year |
| Action Status: | New |
| Notes: | |

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_15

Union Beach, Borough of

Describing the Action

Action Name: Elevate Park Avenue

Action Category: Mitigation - Continuity of Fuctional Use

Action Type: Structure and Infrastructure Project

HMA Eligible Activity: Structure Elevation

Action Description: Elevate Park Avenue to keep roadway clear from flooding.

Evaluating the Action

Hazard(s) Addressed: Flood, Hurricane and Tropical Storm

Goals: 7

Risk Reduction: Park Ave floods during high tide and the First Aid Squad, Fire Station, OEM, and School access this roadway.

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: 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:

Priority: High

Scale of Ease of Implementation: Medium

Responsible Party: Borough Administration

Local Planning Mechanism: EOP

Likely Funding Source(s): FEMA HMA, Borough funding

Timeline: 1 year

Action Status: New

Notes: Very high priority.

Monmouth County Mitigation Action Worksheets

Community Action Number: 50_16

Union Beach, Borough of

Describing the Action

| | |
|------------------------|---|
| Action Name: | Restore the Marsh Surrounding Flat Creek and Create an Upland Maritime Forest Berm |
| Action Category: | Mitigation - Continuity of Functional Use |
| Action Type: | Natural Systems Protection |
| HMA Eligible Activity: | Floodplain and Stream Restoration |
| Action Description: | Restore the marsh surrounding Flat Creek and create an upland maritime forest berm buffering local residences from the marsh. The proposed concept could enhance, but not interfere with any USACE work for Union Beach, and help reduce flooding on Route 36, which provides access to the NWS Earle Pier Complex. |

Evaluating the Action

| | |
|-----------------------------|---|
| Hazard(s) Addressed: | Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge |
| Goals: | 5, 6, 7 |
| Risk Reduction: | Union Beach is at risk of coastal flooding due to its low-lying location containing large tracts of Bayshore wetlands and tidal Flat Creek. The floodplain along Flat Creek is an ecologically-sensitive area that has been disturbed and has eroded over time, degrading conditions, causing flooding and negative environmental impacts |
| Technical: | Technically feasible. |
| Political: | The County and NWS Earle support this action. |
| Legal: | Project will be completed on public lands owned by the County or Borough; NJDEP permits and Soil Erosion and Sediment Control approvals may be required. |
| Environmental: | This action will improve the natural environment. |
| Social: | Does not adversely affect any particular social group. |
| Administrative Capability: | Borough has the capability to oversee this action, and the County is willing to help implement the Raritan/Sandy Hook Bay Coastal Resilience Planning Study projects. |
| Local Champion: | This project is one of 11 projects listed in the 2019 Raritan/Sandy Hook Bay Coastal Resilience Planning Study (by Monmouth County) and is supported by the County, the Borough, NWS Earle, and the Planning Study Technical |
| Other Community Objectives: | |
| STAPLEE Evaluation: | N/A |

Implementing the Action

| | |
|----------------------------------|--|
| Cost Estimate: | |
| Priority: | High |
| Scale of Ease of Implementation: | Low |
| Responsible Party: | Borough, County |
| Local Planning Mechanism: | Raritan/Sandy Hook Bay Coastal Resilience Planning Study, NWS Earle Joint Land Use Study, Monmouth County Mast |
| Likely Funding Source(s): | New Jersey Corporate Wetlands Restoration Partnership (NJCWRP), FEMA HMA, National Fish and Wildlife Foundatio |
| Timeline: | 2 years |
| Action Status: | New |
| Notes: | |

CAPABILITY ASSESSMENT WORKSHEET

Name: Dana Webb

Title: Engineering Support Technician

Jurisdiction: Union Beach Borough

Organization: T&M Associates

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. 2015 Accepted, July 29, 2015 2. Yes, it does 3. Yes, the plan promotes various storm and other hazardous related recovery efforts. 4. Yes. |
| Capital Improvements Plan | Yes | 1. Annually 2. Yes, the plan addresses flood mitigation. 3. Yes. 4. Yes, the plan implements flood mitigation actions. |
| Economic Development Plan | No | |
| Local Emergency Operations Plan | Yes | 1. |
| Continuity of Operations Plan | Yes | 1. 2015 2. |



CAPABILITY ASSESSMENT WORKSHEET

| | | |
|--|---------------|--|
| Post-Disaster Recovery Plan | No | |
| Transportation Plan | No | |
| Stormwater Management Plan | Yes | <ol style="list-style-type: none"> 1. March 2, 2005 2. Yes, the Borough's Stormwater Pollution Plan does. 3. Yes, the Borough's Stormwater Pollution Plan does. 4. Yes. |
| Community Wildfire Protection Plan | No | |
| Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation) | Yes | <ul style="list-style-type: none"> • Basic Operations Plan • Brook Avenue Redevelopment Plan • Strategic Recovery Planning Report • Stormwater Capital Plan • Rebuild by Design • Floodplain Management Plan |
| 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 | <p>Yes, as part of the Zoning Ordinance the Borough adopted FEMA's Flood Damage Prevention Ordinance.</p> <p>Yes, the ordinance is administered and enforced regularly.</p> |
| Subdivision Ordinance | Yes | <p>Yes, as part of the Subdivision Ordinance the Borough adopted FEMA's Flood Damage Prevention Ordinance.</p> <p>Yes, the ordinance is administered and enforced on an as-needed basis when inquiries or application regarding subdivisions are submitted.</p> |



CAPABILITY ASSESSMENT WORKSHEET

| | | |
|--|-----|--|
| Floodplain Ordinance | Yes | Yes, the Borough adopted FEMA's Flood Damage Prevention Ordinance. Yes, the ordinance is administered and enforced regularly. |
| Natural hazard ordinance (stormwater, steep slope, wildfire) | Yes | The Borough currently has a Stormwater Management and Stormwater Pollution Plan adopted and both are regularly enforced. |
| Flood Insurance Rate Maps | Yes | Yes, the 2013 Preliminary maps are adopted Yes, all FEMA mapping, preliminary and effective, are enforced regularly. |
| Acquisition of Land for Open Space and Public Recreation Uses | | |
| Post-Disaster Recovery Ordinance | No | |
| Real Estate Disclose Ordinance | No | |
| 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 | | |
| Mitigation Planning Committee | | |
| Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems) | Yes | <ul style="list-style-type: none"> • Public Works Maintenance Program • Stream cleaning • Drain Cleaning • Catch basins • Inlets • Tree Trimming → part of state SW plan |



CAPABILITY ASSESSMENT WORKSHEET

| | | |
|--|-------------------------|--|
| Mutual Aid Agreements | Yes | With 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 | Yes Yes Yes Yes |
| Floodplain Administrator | Yes | The position is contracted through the Borough Engineer's office and is available at all times. Yes Yes Yes |
| Emergency Manager | Yes | Yes Yes Yes Yes |
| Community Planner | Yes | Yes Yes Yes Yes |
| Civil Engineer | Yes | Yes Yes Yes Yes |
| Surveyor | Yes | Yes Yes Yes Yes |
| GIS Coordinator | Yes | Yes Yes Yes Yes |
| Scientists familiar with the hazards of the community | Yes | Yes Yes Yes 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 Reverse 911 |



CAPABILITY ASSESSMENT WORKSHEET

| | | |
|---|-----|---|
| Hazard Data and Information | | |
| Grant Writing | Yes | The Borough Engineer's office provides Grant Writing services to the Borough. |
| Hazus Analysis | Yes | |
| Other | | |
| <p>How can the above capabilities be expanded and improved to reduce risk?</p> | | |
| <ul style="list-style-type: none"> • Social media • Website | | |



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, funding for CIP is used in part to prevent future hazardous events. |
| Authority to Levy Taxes for Specific Purposes | Yes | |
| Fees for Water, Sewer, Gas, or Electric Services | Yes | |
| Impact Fees for New Development | Yes | |
| Stormwater Utility Fee | | |
| Incur Debt Through Private Activities | No | |
| Community Development Block Grant | Yes | |
| Other Federal Funding Programs | No | |
| 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? | | |
| | | |



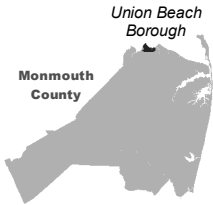
CAPABILITY ASSESSMENT WORKSHEET

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) | | |
| 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? | | |
| | | |





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

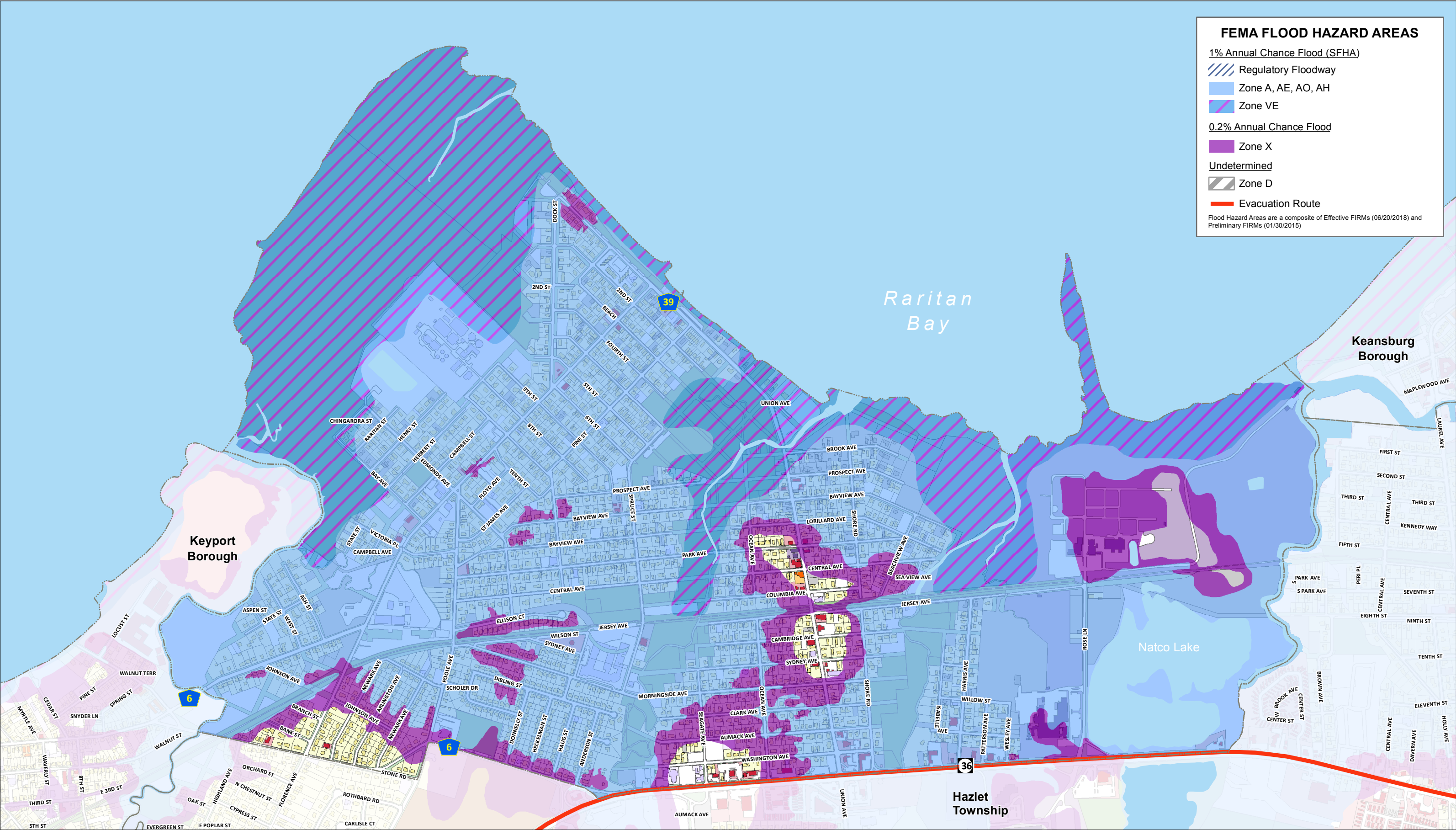
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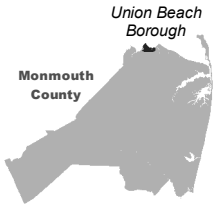
Feet

N

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

Projection: New Jersey State Plane, NAD 1983





Building Classification

Industrial

Farm

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

Residential (four families or less)

Unclassified

Parcel Classification

Industrial

Farm

Commercial

Vacant

Apartment

Civic/Public (Tax Exempt)

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





MEETING NOTES

Topic: Tilton Falls- Monmouth County HMP Update Meeting

Date: June 11, 2019

Time: 2:00 PM- 3:00 PM

Location: Borough Hall, 2nd Floor, 556 Tinton Avenue, Tinton Falls, NJ

Attendees:

| | | |
|----------|--------|------------------|
| Tom | Neff | Borough Engineer |
| Brittany | Ashman | MB Planner |

Drafted by: Paige Kaspar

Introductions (Paige):

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

2015 Mitigation Action:

- Community Action 50_01 Implementation of the Army Corps of Engineers Shore Protection and Flood Control **Ongoing**
 - Beach fill/dunes
 - Acquisition Phase 1: 5-10 beachfront whole lots, 300 hundred easements
 - Phase 2: levees, flood wall, pump stations, flood gates
 - East Beach area
 - West Beach area
 - New cost estimate = \$ 275 million
- Community Action 50_02 Elevate 1,222 homes **ongoing**
 - 300-400 homes have been elevated
 - There are 2,100 homes in total with 1,222 homes in the SFHA
 - Cost estimate = \$100,000 per house elevation



- Community Action 50_03 Raising Roadway (Spruce Street, Center Street, Fifth Street) **Completed**
- Community Action 50_04 Raising Roadway (Front Street) **Ongoing**
 - HMP application submitted by county pending
- Community Action 50_05 Relocate Department of Public Works Main Building **Ongoing**
 - There is little outside SFHA
 - The building is not able to be floodproofed or elevated as it is too old
 - The front portion of the building will be demolished
 - Communication w/ IFF company
- Community Action 50_06 Relocate Harris Garden Fire Company Building **Ongoing**
 - Consolidate fire stations into one station → there are 3
 - 4 stations consolidating to one station, 4 will go into 3, 1 2 are figuring it out
- Community Action 50_07 Raising Roadway (Florence Ave) **Ongoing**
 - County will raise road Florence Ave bridge
 - Currently in the design/permit phase
- Community Action 50_08 Flood Warning Signage **Ongoing**
 - Radio station down
 - Purchase new signs
 - Electric already on poles
- Community Action 50_09 Stream/Creek Maintenance **Completed**
 - Now a capability
 - Public Works maintenance program
- Community Action 50_10 Maintenance of Shore Protection Features **Ongoing**
 - Now a capability
 - Tied to the Army Corp project
 - Public Works maintenance program
- Community Action 50_11 Construct a Stone Revetment Wall **Ongoing**
 - If Army Corp wall fails
- Community Action 50_12 Storm Drain/Inlet Maintenance **Ongoing**
 - Now a capability
 - Public Works maintenance program
- Community Action 50_13 Update Emergency Warning System **Ongoing**
 - 3 sirens
 - Cost Estimate - \$100,000

2020 Mitigation Actions (NEW):

- 14 Memorial School/Borough Hall need generators in order to operate as shelters
- 15 Raise Park Ave, floods during high tide, First Aid, Fire Station, OEM, and school roads need to be clear
 - This is a HIGH priority



Successes:

- Updating Borough Hall for security
 - interior hallways are secure by cards
 - Transaction bullet proof windows
 - Judges chambers secure (bringing into state/county judicial OAC code
 - Security cameras
- Had a meeting w/ RL & SRL properties prior to Sandy
 - Vacant cause of Sandy
 - Owners are selling to developers



Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update



Michael Baker
INTERNATIONAL

Meeting: Union Beach HMP

Date: 06-13-19

| Initial | Last Name | First Name | Title | Organization | Email Address |
|---------|-------------|------------|--------------------------|----------------------------|------------------------------|
| JP | Perrone | John | O.E.M Coordinator | Union Beach | johnperrone15@gmail.com |
| JP | Harriett Sr | John | Deputy | Union Beach OEM | HarzMa90931@aol.com |
| | Wicki | Albin | Council President | Union Beach Team Assoc. | AWicki@gmail.com |
| | DARBACK | DENNIS | BOND ENCL. CRM | | DDARBACK@TEAM ASSOCIATES.COM |
| | HOWARD | ROBERT | BOROUGH ADMINISTRATOR | UNION BEACH | RHOWARD@UNIONBEACH.NJ.GOV |
| | Ashman | Brittany | Planner | MB | |
| | | | | | |
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| | | | | | |