Appendix Vol I.4 Asbury Park City

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

Asbury Park City

CRS Class 0

NFIP Statistics

527 Polices In-force

70 Total Losses

$3,689,973 Total Payments

6 Number of RL Properties

0 Number Mitigated RL Properties

14 RL - Total Losses

$482,774 RL - Total Paid

0 Number of SRL Properties

0 Number Mitigated SRL Properties

0 SRL - Total Losses

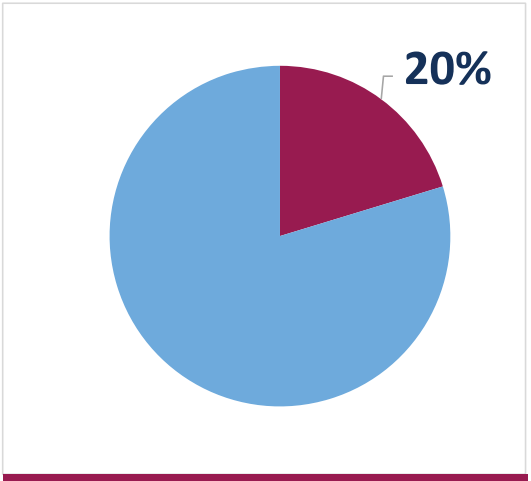
$0 SRL - Total Paid

Critical Facilities

24 Critical Facilities

1 Critical Infrastructure

45 Historic & Cultural Resources



Percent Land Area Within SFHA

15 Total Mitigation Actions

0

Education and Awareness Programs

15

Structure and Infrastructure Projects

0

Local Plans and Regulations

0

Natural Systems Protection

1,444 SV Population At Risk (2017)

3,210 Population at Risk (2017)

Asbury Park, City 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
04_01	Replace and Upgrade Generators at Critical Facilities	Replace generator at Wastewater Treatment Plant, purchase and install generators at the Asbury Park Senior Citizen Center, and replace generator at City Hall (housing the OEM Command Center and the police station). All three facilities will require a properly-sized, diesel-powered generator. Additionally, the Asbury Park Senior Citizen Center will need a new automatic transfer switch; City Hall and Wastewater Treatment Plant will need new transfer switch. The Asbury Park Senior Citizen Center will need permitting for the installation of above ground diesel storage tank.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Low	Director of Engineering and Public Works	FEMA HMA	$1,000,000.00	1 year	Ongoing
04_02	Clean and Upgrade Outfall Pipes to Remove Sediment and Increase Stormwater Capabilities at Sunset Lake	Clean and upgrade outfall pipes to remove sediment and increase stormwater capabilities at Sunset Lake	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Medium	Low	Public Works, Engineering	Municipal budget	$35,000,000.00	1 year	Ongoing
04_03	Install Larger Outfall Pipes and an Automatic Dredge Flume to Mitigate Flooding at Wesley Lake	Wesley Lake needs larger outfall pipes, an automatic dredge flume, sewer inspectors of foot bridge.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Director of Engineering and Public Works	FEMA HMA, Municipal budget	$12,000,000.00	2 years	Ongoing
04_04	Elevate Residential Structures at Risk to Flooding, including any Repetitive Loss or Severe Repetitive Loss Properties	Elevation of approximately 75 Flood-prone residential structures.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Medium	Construction Department	FEMA HMA	$10,000,000.00	5 + years	Ongoing
04_05	Dredge Deal Lake, Construct Automatic Tide Gate, and Expand Capacity of Boat Ramp to Mitigate Flooding Around Deal Lake	Dredge Deal Lake by two feet and improve the living shorelines; replace the existing tide gate with an automatic type with sensors to maintain the gate open before the Atlantic Ocean begins backing into the lake during extreme high tide or severe weather events. Additionally, expand the capacity of boat ramp for additional rescue boats.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Medium	Public Works, Engineering	FEMA HMA, municipal budget, The Nature Conservancy (TNC)	$2,500,000.00	1 year	Ongoing
04_06	Reconstruct Stormwater Lines to Mitigate Flooding in the City	Pinpoint all areas of flooding thereby identifying existing storm facilities and their respective routes to the new systems. Reconstruct all storm lines and structures from the flooded areas leading and connecting to the new systems taking the path of least resistance while conveying the most possible storm flow.	Mitigation - Continuity of Fuctional Use	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	Medium	Medium	Director of Engineering and Public Works	FEMA HMA, Municipal budget	$18,000,000.00	1 year	Ongoing
04_07	Relocate Fire House/EMT Services and Add Security Measures	The Fire House and EMT building is over 120 years old. The City is looking to acquire a property outside the SFHA for these services. Once the new building is constructed, the City would like to add surveillance cameras to the exterior of the building.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Medium	City Fire and Administration	FEMA HMA, Homeland Security grants, Municipal budget		3 years	New

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
04_08	Initiate Quarterly Inspect Sewer Pipes	Quarterly, use a video feed to inspect the conditions of city pipes.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Low	City Public Works and Engineering	Municipal budget		5 + years	New
04_09	Install Temporary Signals and Generators for Traffic Lights for Emergency Evacuation Routes	Install temporary signals at intersections when power is out (shore term); identify critical intersections and develop a prioritized list for generator-powered emergency traffic control (long-term).	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Low	City Engineering and Transportation Director	FEMA HMA, Municipal budget	$150,000.00	4 years	New
04_10	Purchase and Install Generator for Radio Dispatcher System	Purchase and install a generator for the radio dispatcher system in order to distribute effective, relevant information to other responders when power is out.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low		City Police				Completed
04_11	Increase Security in Public Spaces, especially the Boardwalk, the CBD, and the Train Station	Increase security at DPW, along the Boardwalk, and in City parks. Expand the closed-circuit systems to include public spaces.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Terrorism	Low	Low	City Administration	Homeland Security grants, Municipal budget		1 year	New
04_12	Floodproof DPW & Sewer Treatment Plant	Floodproof or elevate facilities for the DPW yard and sewer plant (located on the beach) that are prone to flooding.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge	High	Low	City Public Works and Engineering	FEMA HMA		1 year	New
04_13	Purchase Portable Light Towers	Portable light towers for rescues at night or during a power outage.	Maintenance/Response/Recovery	Structure and Infrastructure Project	All Hazards	Low	Low	City Administration	Municipal budget		2 years	New
04_14	Purchase and Install Generator and Provide ADA Access for the Asbury Park Library (Emergency Shelter)	The library needs a generator and ADA access to service the vulnerable population in times of severe weather events. Additionally, the City would like to migrate the City's data into the library, as it is the safest building in the City.	Maintenance/Response/Recovery	Structure and Infrastructure Project	Flood, Cyber Attack, Nor'easter, Hurricane and Tropical Storm, Storm Surge	Low	Low	City	FEMA HMA, Homeland Security grants, Municipal budget	$150,000.00	2 years	New
04_15	Acquire properties in flood prone areas, with a focus on Repetitive Loss (RL) and Severe Repetitive Loss (SRL) properties	Acquire structures that are listed as RL/SRL properties and restore to open space.	Mitigation - Risk Reduction	Structure and Infrastructure Project	Flood, Nor'easter, Hurricane and Tropical Storm	High	Medium	City and Property Owners	FEMA HMA		5 + years	New

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_01 — Asbury Park, City of

Describing the Action

Action Name:	Replace and Upgrade Generators at Critical Facilities
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Replace generator at Wastewater Treatment Plant, purchase and install generators at the Asbury Park Senior Citizen Center, and replace generator at City Hall (housing the OEM Command Center and the police station). All three facilities will require a properly-sized, diesel-powered generator. Additionally, the Asbury Park Senior Citizen Center will need a new automatic transfer switch; City Hall and Wastewater Treatment Plant will need new transfer switch. The Asbury Park Senior Citizen Center will need permitting for the installation of above ground diesel storage tank.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 5, 7
Risk Reduction:	During Superstorm Sandy, the Wastewater Treatment Plant's existing generator provided power to limited systems for approximately seven days before cutting out- therefore an upgrade to the existing generator is needed. The existing generator at City Hall ran on very limited power and could barely operate the OEM command center and police station; the generator is severely undersized for the current and future demand of this building. The Senior Citizen Center served as a relief center for a significant portion of the population of Asbury Park. Information, hot/cold food, blankets, and other support services were routinely distributed at the center and needs backup power.
Technical:	Absolutely so long as the funding will be made available to accomplish it.
Political:	Yes there is overall public support and political will to support the action.
Legal:	Asbury Park has the authority to implement the action.
Environmental:	The potential environmental impacts of the action are all positive as they will enhance the ecology of the Wesley Lake area while simultaneously providing much needed mitigation to storm events. The action will comply with all environmental regulations.
Social:	The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low income residents.
Administrative Capability:	Outside help may be needed administratively to supplement the implementation and maintain it.
Local Champion:	OEM, Police
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	$1,000,000.00
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	Director of Engineering and Public Works
Local Planning Mechanism:	Plans and specifications initially for construction, then maintenance plan for DPW.
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	Ongoing
Notes:	The City was awarded a HMGP grant for the Wastewater Treatment Plant ($262,000), The Senior Center ($217,500) and City Hall ($296,250) are pending obligation as of 2020.

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_02 — Asbury Park, City of

Describing the Action

Action Name:	Clean and Upgrade Outfall Pipes to Remove Sediment and Increase Stormwater Capabilities at Sunset Lake
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Clean and upgrade outfall pipes to remove sediment and increase stormwater capabilities at Sunset Lake

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6, 7
Risk Reduction:	Sunset Lake has sediment accumulation, which limits the storage of stormwater runoff. The lake needs more properly defined edges which will help infiltrate stormwater runoff. Sunset Lake serves as a large drainage basin for a majority of the City before discharging into Deal Lake via underground piping.
Technical:	Absolutely, so long as the funding will be made available to accomplish it.
Political:	Yes, there is overall public support and political will to support the action.
Legal:	Asbury Park has the authority to implement the action.
Environmental:	The potential environmental impacts of the action are all positive as they will enhance the ecology of the Sunset Lake while simultaneously providing mitigation to storm events. The action will comply with all environmental regulations.
Social:	The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low-income residents.
Administrative Capability:	Outside help may be needed administratively to implement and maintain it.
Local Champion:	No one single advocate has been identified as of yet.
Other Community Objectives:	This action will present a viable capital improvement, spur economic development, greatly serve as an environmental benefit and further preserve the Sunset Lake open space.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	$35,000,000.00
Priority:	Medium
Scale of Ease of Implementation:	Low
Responsible Party:	Public Works, Engineering
Local Planning Mechanism:	Plans and specifications initially for construction, then maintenance plan for DPW.
Likely Funding Source(s):	Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	The Sunset Lake Foot Bridge & Sunset Lake Bulkhead were awarded FEMA 406 Public Assistance funds after Sandy ($2,284).

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_03 Asbury Park, City of

Describing the Action

Action Name:	Install Larger Outfall Pipes and an Automatic Dredge Flume to Mitigate Flooding at Wesley Lake
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Infrastructure Retrofit
Action Description:	Wesley Lake needs larger outfall pipes, an automatic dredge flume, sewer inspectors of foot bridge.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6, 7
Risk Reduction:	The lake has a lack of storage volume, does not have a properly located automatic flood gate, and needs repairs to the outfall. The lake serves as a large drainage basin for an area accounting for nearly 50% of the total area of the City, plus a section of inland Neptune Township and parts of the Ocean Grove section of Neptune Township, before it discharges into the Atlantic Ocean via underground piping beneath the beach.
Technical:	Absolutely, so long as the funding will be made available to accomplish it.
Political:	Yes, there is overall public support and political will to support the action.
Legal:	Asbury Park has the authority to implement the action.
Environmental:	The potential environmental impacts of the action are all positive as they will enhance the ecology of the Wesley Lake area while simultaneously providing much needed mitigation to storm events. The action will comply with all environmental regulations.
Social:	The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low-income residents.
Administrative Capability:	Outside help may be needed administratively to supplement the implementation and maintain it.
Local Champion:	None at this time
Other Community Objectives:	
STAPLEE Evaluation:	8

Implementing the Action

Cost Estimate:	$12,000,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Director of Engineering and Public Works
Local Planning Mechanism:	Plans and specifications initially for construction, then maintenance plan for DPW.
Likely Funding Source(s):	FEMA HMA, Municipal budget
Timeline:	2 years
Action Status:	Ongoing
Notes:	Ongoing action; the City deems this action necessary and is searching for potential funding.

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_04 — Asbury Park, City of

Describing the Action

Action Name:	Elevate Residential Structures at Risk to Flooding, including any Repetitive Loss or Severe Repetitive Loss Properties
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structure Elevation
Action Description:	Elevation of approximately 75 Flood-prone residential structures.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	2, 3, 5, 6
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 is technically feasible.
Political:	Our political leadership supports this type of project.
Legal:	While the municipality does not own the structures in question, the City fully support the homeowners in moving forward.
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:	Our municipality has the administrative capabilities to manage an elevation project.
Local Champion:	Affected homeowners.
Other Community Objectives:	
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	$10,000,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Construction Department
Local Planning Mechanism:	Coordination of building permits and verification of proposed first floor elevations.
Likely Funding Source(s):	FEMA HMA
Timeline:	5 + years
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the City is in the process of elevating about 15 structures. $5,625,000 for the elevation of 75 homes through HMGP (pending obligation as of 2020)

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_05 Asbury Park, City of

Describing the Action

Action Name:	Dredge Deal Lake, Construct Automatic Tide Gate, and Expand Capacity of Boat Ramp to Mitigate Flooding Around Deal Lake
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Localized Flood Risk Reduction Projects
Action Description:	Dredge Deal Lake by two feet and improve the living shorelines; replace the existing tide gate with an automatic type with sensors to maintain the gate open before the Atlantic Ocean begins backing into the lake during extreme high tide or severe weather events. Additionally, expand the capacity of boat ramp for additional rescue boats.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5, 6, 7
Risk Reduction:	Deal Lake's sediment accumulation limits storage for stormwater runoff. The lake serves as a large drainage basin for large area of the City before it discharges into the Atlantic Ocean via a long concrete underground flume. Sunset Lake drains into Deal Lake and the flooding of Deal Lake can cause up stream flooding at Sunset Lake.
Technical:	Absolutely, as long as the funding will be made available to accomplish it.
Political:	Yes, there is overall public support and political will to support the action.
Legal:	Asbury Park and the Deal Lake Commission have the authority to implement the action.
Environmental:	The potential environmental impacts of the action are all positive as they will enhance the ecology of the Deal Lake area while simultaneously providing mitigation to storm events. The action will comply with all environmental regulations.
Social:	The proposed action will not affect existing neighborhoods, will not break up voting districts and will not cause the relocation of low-income residents.
Administrative Capability:	Outside help may be needed administratively to implement and maintain it.
Local Champion:	Deal Lake Commission
Other Community Objectives:	This action will present a viable capital improvement, spur economic development, greatly serve as an environmental benefit and further preserve the Deal Lake open space.
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	$2,500,000.00
Priority:	High
Scale of Ease of Implementation:	Medium
Responsible Party:	Public Works, Engineering
Local Planning Mechanism:	Plans and specifications initially for construction, then maintenance plan for the Departments of Public Works for the
Likely Funding Source(s):	FEMA HMA, municipal budget, The Nature Conservancy (TNC)
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing action; the City deems this action necessary and is searching for potential funding.

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_06 — Asbury Park, City of

Describing the Action

Action Name:	Reconstruct Stormwater Lines to Mitigate Flooding in the City
Action Category:	Mitigation - Continuity of Fuctional Use
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Mitigation Reconstruction
Action Description:	Pinpoint all areas of flooding thereby identifying existing storm facilities and their respective routes to the new systems. Reconstruct all storm lines and structures from the flooded areas leading and connecting to the new systems taking the path of least resistance while conveying the most possible storm flow.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	2, 3, 5, 6
Risk Reduction:	New development near Wesley Lake use undersized stormwater drains and do not flow efficiently to the new systems, causing severe backups and flooding.
Technical:	Absolutely, as long as the funding will be made available to accomplish it.
Political:	Yes, there is overall public support and political will to support the action.
Legal:	Asbury Park has the authority to implement the action.
Environmental:	The potential environmental impacts of the action are all positive as they will enhance the quality of life in affected areas, minimizing public health hazards, while simultaneously providing mitigation to storm events. The action will comply with all environmental regulations.
Social:	The proposed action will not affect existing neighborhoods in an impactful manner, will not break up voting districts and will not cause the relocation of low-income residents.
Administrative Capability:	Outside help may be needed administratively to implement and maintain it.
Local Champion:	No one single advocate has been identified as of yet.
Other Community Objectives:	This action will present a viable capital improvement, spur economic development and greatly serve as an environmental benefit.
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	$18,000,000.00
Priority:	Medium
Scale of Ease of Implementation:	Medium
Responsible Party:	Director of Engineering and Public Works
Local Planning Mechanism:	This action will present a viable capital improvement, spur economic development and greatly serve as an environme
Likely Funding Source(s):	FEMA HMA, Municipal budget
Timeline:	1 year
Action Status:	Ongoing
Notes:	Ongoing 2015 action; the City is researching potential funding for new stormwater drainage infrastructure to mitigate localized flooding.

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_07 Asbury Park, City of

Describing the Action

Action Name:	Relocate Fire House/EMT Services and Add Security Measures
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Property Acquisition and Structure Relocation
Action Description:	The Fire House and EMT building is over 120 years old. The City is looking to acquire a property outside the SFHA for these services. Once the new building is constructed, the City would like to add surveillance cameras to the exterior of the building.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 2, 3, 5, 6, 7
Risk Reduction:	The existing fire house and EMT center is extremely outdated and cannot function to its full capacity.
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 the move will result in quicker emergency response times.
Administrative Capability:	City has sufficient capacity and experience to administer this action.
Local Champion:	City Manager
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Scale of Ease of Implementation:	Medium
Responsible Party:	City Fire and Administration
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA, Homeland Security grants, Municipal budget
Timeline:	3 years
Action Status:	New
Notes:	The City was awarded FEMA Funding 406 Public Assistance of $15,043.08, Category E. Public Buildings to repair the Fire House, built in 1900, after Superstorm Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_08 Asbury Park, City of

Describing the Action

Action Name:	Initiate Quarterly Inspect Sewer Pipes
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Quarterly, use a video feed to inspect the conditions of city pipes.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	2, 3, 5, 6
Risk Reduction:	The City's pipes are very old and at risk of leaking.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated, unless the City has to close down a road for inspection.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group; inspection will be city-wide.
Administrative Capability:	City has sufficient capacity and experience to administer this action.
Local Champion:	City Manager
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	City Public Works and Engineering
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: 04_09 — Asbury Park, City of

Describing the Action

Action Name:	Install Temporary Signals and Generators for Traffic Lights for Emergency Evacuation Routes
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Generators
Action Description:	Install temporary signals at intersections when power is out (shore term); identify critical intersections and develop a prioritized list for generator-powered emergency traffic control (long-term).

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 3, 4, 7
Risk Reduction:	Access to properly functioning intersections is a critical component of response and recovery. Additionally, emergency responders can respond to other emergencies if they are not needed to direct traffic.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal impediments anticipated; may need to coordinate with County and state if the intersection is at a county or state route.
Environmental:	No adverse environmental impact anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial because the risk of accidents would be lower and it would improve the flow of traffic during and after a severe storm event.
Administrative Capability:	City has sufficient capacity and experience to administer this action.
Local Champion:	City Manager
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:	City Engineering and Transportation Director
Local Planning Mechanism:	Hazard Mitigation Plan, Coastal Flood Evacuation Plan
Likely Funding Source(s):	FEMA HMA, Municipal budget
Timeline:	4 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_10 Asbury Park, City of

Describing the Action

Action Name:	Purchase and Install Generator for Radio Dispatcher System
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Purchase and install a generator for the radio dispatcher system in order to distribute effective, relevant information to other responders when power is out.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	3, 7
Risk Reduction:	The City had difficulty reaching other responders during emergency situations and disasters.
Technical:	Technically feasible.
Political:	Politically acceptable and encouraged in order to reach other emergency responders
Legal:	No legal issues anticipated.
Environmental:	No adverse environmental effects.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial so emergency services can continue even when power is out.
Administrative Capability:	City has sufficient capacity and experience to administer this action
Local Champion:	Police, City Manager
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Scale of Ease of Implementation:	
Responsible Party:	City Police
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	
Timeline:	
Action Status:	Completed
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_11 — Asbury Park, City of

Describing the Action

Action Name:	Increase Security in Public Spaces, especially the Boardwalk, the CBD, and the Train Station
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other
Action Description:	Increase security at DPW, along the Boardwalk, and in City parks. Expand the closed-circuit systems to include public spaces.

Evaluating the Action

Hazard(s) Addressed:	Terrorism
Goals:	1, 2, 3, 5, 7
Risk Reduction:	Public areas, including parks and the boardwalk, which attract thousands of visitors during the summer months, are vulnerable to terrorism and crime. Increased security will lower the risk of such hazards.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	No legal issues are anticipated.
Environmental:	No adverse environmental impacts are anticipated.
Social:	Does not adversely affect any particular social group. Perceived by the public to be beneficial.
Administrative Capability:	City has sufficient capacity and experience to administer this action
Local Champion:	Police, OEM, City Manager
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	City Administration
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Homeland Security grants, Municipal budget
Timeline:	1 year
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_12 — Asbury Park, City of

Describing the Action

Action Name:	Floodproof DPW & Sewer Treatment Plant
Action Category:	Mitigation - Risk Reduction
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Structural Retrofitting of Existing Buildings
Action Description:	Floodproof or elevate facilities for the DPW yard and sewer plant (located on the beach) that are prone to flooding.

Evaluating the Action

Hazard(s) Addressed:	Flood, Wave Action, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 5, 7
Risk Reduction:	DPW and sewer treatment plant are prone to flooding.
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 beneficial because it will increase reliability of the Sewerage Authority and DPW operations.
Administrative Capability:	City has sufficient capacity and experience to administer this action
Local Champion:	DPW, City Manager
Other Community Objectives:	
STAPLEE Evaluation:	10

Implementing the Action

Cost Estimate:	
Priority:	High
Scale of Ease of Implementation:	Low
Responsible Party:	City Public Works and Engineering
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA
Timeline:	1 year
Action Status:	New
Notes:	Sewer Treatment Plant was awarded $394,706 of HMGP funding for a generator. Additionally, the Plant was awarded two FEMA Funding 406 Public Assistance Category F. Utilities grants of $996,478.85 and $8,544.75 for repairs post-Sandy.

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_13 Asbury Park, City of

Describing the Action

Action Name:	Purchase Portable Light Towers
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Miscellaneous/Other/NA
Action Description:	Portable light towers for rescues at night or during a power outage.

Evaluating the Action

Hazard(s) Addressed:	All Hazards
Goals:	1, 2, 3, 7
Risk Reduction:	Emergency responders cannot always see when rescuing at night, especially if there is a power outage.
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:	City has sufficient capacity and experience to administer this action
Local Champion:	City Manager, Police and Fire Department
Other Community Objectives:	
STAPLEE Evaluation:	N/A

Implementing the Action

Cost Estimate:	
Priority:	Low
Scale of Ease of Implementation:	Low
Responsible Party:	City Administration
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	Municipal budget
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_14 Asbury Park, City of

Describing the Action

Action Name:	Purchase and Install Generator and Provide ADA Access for the Asbury Park Library (Emergency Shelter)
Action Category:	Maintenance/Response/Recovery
Action Type:	Structure and Infrastructure Project
HMA Eligible Activity:	Non-structural Retrofitting of Existing Buildings and Facilities
Action Description:	The library needs a generator and ADA access to service the vulnerable population in times of severe weather events. Additionally, the City would like to migrate the City's data into the library, as it is the safest building in the City.

Evaluating the Action

Hazard(s) Addressed:	Flood, Cyber Attack, Nor'easter, Hurricane and Tropical Storm, Storm Surge
Goals:	1, 2, 3, 7
Risk Reduction:	The Asbury Park Library functions as a retreat center for nearby vulnerable residents that might not be able to educate the city during severe storm events. The building needs a generator and ADA compliant ramps for the vulnerable population.
Technical:	Technically feasible.
Political:	No major political impacts anticipated.
Legal:	No major legal issues expected.
Environmental:	No anticipated adverse environmental impact.
Social:	Does not adversely affect any particular social group.
Administrative Capability:	City has sufficient capacity and experience to administer this action
Local Champion:	City Manager
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:	City
Local Planning Mechanism:	Hazard Mitigation Plan
Likely Funding Source(s):	FEMA HMA, Homeland Security grants, Municipal budget
Timeline:	2 years
Action Status:	New
Notes:	

Monmouth County Mitigation Action Worksheets

Community Action Number: 04_15 Asbury Park, City of

Describing the Action

Action Name:	Acquire properties 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:	Property Acquisition and Structure Demolition
Action Description:	Acquire structures that are listed as RL/SRL properties and restore to open space.

Evaluating the Action

Hazard(s) Addressed:	Flood, Nor'easter, Hurricane and Tropical Storm
Goals:	1, 2, 3, 6
Risk Reduction:	Risk of future destruction and property loss in repetitive flooded areas.
Technical:	Technically feasible.
Political:	No adverse political ramifications are expected.
Legal:	If structures are elevated, they must be built in compliance with the FEMA flood maps.
Environmental:	Positively impacts the environment by increasing the permeable surface for each homeowner property.
Social:	Does not adversely affect any particular social group. Perceived by the public to be a good thing because of repetitive nature of flooding in the project area.
Administrative Capability:	There is sufficient capacity and experience to administer this action.
Local Champion:	OEM
Other Community Objectives:	
STAPLEE Evaluation:	10

Implementing the Action

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

CAPABILITY ASSESSMENT WORKSHEET

Name: Garrett M Giberson Title: OEM Coordinator

Jurisdiction: City of Asbury Park Organization: Asbury Park OEM

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. 2017 (Re-examination) 2. Yes. 3. No 4. Yes
Capital Improvements Plan	Yes	1. 2019 (it is annual) 2. Depending on need 3. No 4. Yes
Economic Development Plan	Yes	1. 2017 2. No 3. No 4. no
Local Emergency Operations Plan	Yes	1. 2019 (being updated) 2. Yes 3. Yes

		4. yes
Continuity of Operations Plan		
Post-Disaster Recovery Plan	Yes	
Transportation Plan	Yes	1. As an element of the 2017 re-examination plan 2. Bike/Ped Plan (2018 under review) 3. No 4. No
Stormwater Management Plan	Yes	1. Not sure of year. Codified in Chapter 30 Section 58 of City code 2. No 3. No 4. no
Community Wildfire Protection Plan		NO idea
Other special plans (e.g., brownfields redevelopment, disaster recovery, coastal zone management, climate change adaptation)	Yes	Rebuild by Design
Building Code, Permitting, and Inspections	**Yes/No**	**Are codes adequately enforced?**
Building Code	Yes	Version/Year: ASK SELAH
Building Code Effectiveness Grading Schedule (BCEGS) Score	Yes	Score: ASK SELAH
Fire Department ISO rating		Rating: ASK KEDDY
Site Plan Review Requirements	Yes	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	Yes; yes
Subdivision Ordinance	Yes	Yes; yes
Floodplain Ordinance	Yes	Flood Damage Prevention
Natural hazard ordinance (stormwater, steep slope, wildfire)	Yes	Yes; yes
Flood Insurance Rate Maps	Yes	As per Flood Plain Management
Acquisition of Land for Open Space and Public Recreation Uses	No	NA
Post-Disaster Recovery Ordinance	No	
Real Estate Disclose Ordinance	Yes	
Other (ie. Special Purposes Ordinance)	Yes	Special Purposes 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	Land development and open space

Mitigation Planning Committee	NO	
Maintenance Programs to Reduce Risk (e.g., tree trimming, clearing drainage systems)	Yes	Meeting all Public Works requirements
Mutual Aid Agreements	Yes	Various
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	Full; yes; yes; yes
Floodplain Administrator	Yes	Full; yes; yes; yes
Emergency Manager	Yes	Full; yes; yes; yes
Community Planner	Yes	Full; yes; yes; yes
Civil Engineer	Yes	No; yes; yes; yes
Surveyor	Yes	No; yes; yes; yes
GIS Coordinator	Yes	No; yes; yes; yes
Scientists familiar with the hazards of the community	No	
Other	Yes	Water testing through Monmouth University
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	Yes

Hazard Data and Information	Yes	Yes
Grant Writing	Yes	yes
Hazus Analysis	Yes	yes
Other		
How can the above capabilities be expanded and improved to reduce risk?		
Not applicable		

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; road improvements; yes
Authority to Levy Taxes for Specific Purposes	Yes	No it has not. It could be.
Fees for Water, Sewer, Gas, or Electric Services	No	No applicable
Impact Fees for New Development	Yes	An Ordinance would have to be created and this is unlikely
Stormwater Utility Fee	No	Will not raise enough money to do anything
Incur Debt Through Private Activities	Yes	Redevelopment Area Bonds for infrastructure
Community Development Block Grant	Yes	Yes. General stormwater management on roads
Other Federal Funding Programs	No	
State Funding Programs		
Other (e.g., withhold spending in hazard-prone areas)	Yes	withhold spending in hazard-prone areas ,Incur Debt through General Obligation Funds, Incur Debt through Special Tax and Revenue Bond
How can these capabilities be expanded and improved to reduce risk?		

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	Deal Lake Commission, Sunset Lake Commission, Wesley Lake Commission. Education and outreach
Ongoing Public Education or Information Programs (e.g., responsible water use, fire safety, household preparedness, environmental education)	Yes	Through OEM, Police and Fire
Natural Disaster or Safety Related School Programs	NO	
Storm Ready Certification	NO	
Fire wise Communities Certification		
Public-Private Partnership Initiatives Addressing Disaster Related Issues	No	
Other		
How can these capabilities be expanded and improved to reduce risk?		

ASBURY PARK CITY 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

0 350 700 Feet

N

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

Projection: New Jersey State Plane, NAD 1983

Michael Baker INTERNATIONAL

Loch Arbour Village

Ocean Township

Neptune Township

Asbury Park

Deal Lake

Sunset Lake

Wesley Lake

Atlantic Ocean

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)

ASBURY PARK CITY 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

0 350 700 Feet

N

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

Projection: New Jersey State Plane, NAD 1983

Michael Baker INTERNATIONAL

Loch Arbour Village

Ocean Township

Neptune Township

Asbury Park

Deal Lake

Sunset Lake

Wesley Lake

Atlantic Ocean

POTENTIAL SEA LEVEL RISE INUNDATION AREAS

1 Foot Sea Level Rise (2050)

3 Foot Sea Level Rise (2100)

Evacuation Route

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

MEETING NOTES

Topic: Asbury Park- Monmouth County Hazard Mitigation Meeting

Date: June 20, 2019

Time: 2:00 PM- 3:00 PM

Location: 1 Municipal Plaza, City Managers Conference Room (2nd Floor)

Attendees: Brittany Ashman, Planner, Michael Baker Intl.
Paige Kaspar, Planner, Michael Baker Intl.
Joe Barris, Assistant Monmouth County Planning Director
Garrett Gisbson, OEM Coordinator
Michael Manzella, Monmouth County Transportation Director
William McClare, Superintendent of DPW
Kevin Keddy, Fire Chief
Michael Capabiancca, City Manager

Drafted by: Paige Kaspar

Introductions (Brittany):

- What is Hazard Mitigation?
- Matching actions with Goals
- New Hazards
- HMP Pamphlet
- Funding

Critical Facilities:

- Add City hall and spring wood park to Critical Facilities
- Anything on the ROSI should be included.
- Transportation Center needs to be added to the CF list.

2015 Mitigation Action Status:

1. Replace and Upgrade Generators at Critical Facilities→ Ongoing 2015 action; a HMGP grant elevated the generator the Wastewater Treatment Plant. The City still needs to install generators at the Asbury Park Senior Citizen Center and replace the generator at City Hall.

2. Mitigate Sunset Lake→ Sunset lake needs dredging and sediment removal and rebuilding of Bulkheads ongoing
3. Mitigate Wesley Lake→ rehabilitation of foot bridge, wider and longer outfall pipe, automate flume, dredging, divert water to open space/ newer design retention area
   combine mit action 2 & 3. Break out each bulkhead project. Flume outfall pipes need to be bigger and longer and make it automated
4. Elevate Residential Structures→ Ongoing 2015 action; the City is in the process of elevating about 15 structures. Originally had 75 homes that needed to be elevated.
5. Mitigate Deal Lake and Expand Capacity of Boat Ramp→ Deal Lake's sediment accumulation limits storage for stormwater runoff. The lake serves as a large drainage basin for large area of the City before it discharges into the Atlantic Ocean via a long concrete underground flume. Sunset Lake drains into Deal Lake and the flooding of Deal Lake can cause up stream flooding at Sunset Lake.
6. Improve Stormwater Drainage near Wesley Lake→ Pinpoint all areas of flooding thereby identifying existing storm facilities and their respective routes to the new systems. Reconstruct all storm lines and structures from the flooded areas leading and connecting to the new systems taking the path of least resistance while conveying the most possible storm flow.

2020 Mitigation Actions (NEW):

1. New Firehouse/ EMS → property acquisition and constructions
2. Televise municipal sewer lines
3. Generators (temp and permanent) traffic lights
4. ITS traffic lights
5. Wireless infrastructure/ public wifi
6. Repeater system/ dispatch on full generator
7. Transportation Center generator
8. Senior Center generator
9. Camera and fencing for DPW
10. Cameras on the beach along the board walk → expansion of the city-wide camera system.
11. Floodproof DPW
12. Floodproof of sewage treatment plant
13. Portable Light towers
14. Library needs ADA access and generator
15. Data migration/ cloud device
16. Expanded capacity of existing boat ramp at deal for any rescue

Capabilities:

- 2017 Re-examination Master Plan Report
- Bike/Ped Plan (2018 under review)
- Flood Damage Prevention Ordinance

Monmouth County
Multi-Jurisdictional Hazard Mitigation Plan Update

Michael Baker INTERNATIONAL

Meeting: Asbury Park HMP **Date:** 06-20-19

Initial	Last Name	First Name	Title	Organization	Email Address
JB	Barris	Joe	Asst Planning Director	Monmouth Co.	Joe.barris@co.monmouth.nj.us
RAB	Bianchini	Robert	Deputy Director DPW	city of Asbury Park	Robert.Bianchini@cityofasburypark.com
GJG	Giberson	Garrett	OEM Coordinator	City of Asbury Park	garrett.gibersonjr@cityofasburypark.com
MM	Manzella	Michael	Director of Transportation	City of Asbury Park	michael.manzella@cityofasburypark.com
WM	McClave	William	Superintendent of DPW	City of Asbury Park	superintendent@cityofasburypark.com
KK	KEDDY	KEVIN	FIRE CHIEF	CITY OF ASBURY PARK	KEVIN.KEDDY@CITYOFASBURYPARK.COM
MC	Capobianco	Michael	City Manager	" "	michael.capobianco@cityofasburypark.com
	Ashman	Brittany	Planner	MB	
	Kaspar	Paige	Planner	MB	