

## 9.16: Borough of Longport – Jurisdictional Annex

### Summary of Hazards and Actions

Summary of Hazard Ranking and Actions, Borough of Longport			
Hazard	Hazard Ranking	# of Related Actions	Action #s
<b>Atmospheric Hazards</b>			
Extreme Temperatures	M	6	1, 3, 4, 5, 12, 17
Extreme Wind	M	6	1, 3, 4, 5, 12, 17
Hail	L	6	1, 3, 4, 5, 12, 17
Hurricane & Tropical Storm	H	6	1, 3, 4, 5, 12, 17
Lightning	L	6	1, 3, 4, 5, 12, 17
Nor'easter	M	6	1, 3, 4, 5, 12, 17
Tornado	L	6	1, 3, 4, 5, 12, 17
Winter Storm	M	6	1, 3, 4, 5, 12, 17
<b>Hydrologic Hazards</b>			
Coastal Erosion	H	7	1, 3, 4, 5, 12, 17, 29
Sea Level Rise	H	6	1, 3, 4, 5, 12, 17
Dam Failure	N/A		
Levee Failure	N/A		
Drought	L	6	1, 3, 4, 5, 12, 17
Flood	H	18	1, 3, 4, 5, 7, 8, 12, 14, 15, 17, 18, 20, 22, 24, 25, 26, 27, 28
Tsunami	L	6	1, 3, 4, 5, 12, 17
Storm Surge	H	6	1, 3, 4, 5, 12, 17
Wave Action	M	6	1, 3, 4, 5, 12, 15, 17, 29
<b>Geologic Hazards</b>			
Earthquake	L	6	1, 3, 4, 5, 12, 17
<b>Other Natural Hazards</b>			
Wildfire	L	6	1, 3, 4, 5, 12, 17

# Mitigation Strategy for Risk Reduction

Overview of Municipal Mitigation Strategy, Borough of Longport				
Project Number	Project Description	Hazard(s) Addressed	Priority	Goals
1	The Borough thru the CRS Director distributes Emergency Preparedness information to the public via Town Topics, Legion Phone Directory, Library & annual mail	All	H	1
3	Preparedness & resiliency planning	All	H	2
4	"Post Recovery Plan" should address all concerns with reconstruction within our community after a major event -	All	H	4
5	Reverse 911 - warning banner on Boroughs Web Site & local TV, face book & twitter	All	H	1
7	Structural Flood Mitigation, Elevates RL, SRL, and properties below the BFE to a minimum of +2' above BFE	Flood	H	3
8	Purchase a generator, install on mobile trailer, cross connections to feed existing generators in case of power failures	Flood	H	2
12	Structural project - all utility lines going under ground	All	L	3
14	Dunes installed to protect our community	Flooding	H	3
15	Increase setbacks beach front properties	Flood, Wave action	L	3
17	Annually review our codes to make sure they address the plan's goals & objectives	All	M	4
18	Hire consult to perform a feasibility study all critical facilities in order to determine best mitigation practices and/or reconstruct	Flood	H	3
20	Elevate/Protect Critical Facilities	Flood	H	3
22	Construct a new Public Works Complex to a 500 yr level	Flood	H	3
24	Install flood vents, back fill basement and/or crawl space, elevate electric Borough Buildings <b>(New)</b>	Flood	H	3
25	Plug open scuppers in bay side bulkheads and install Duck bills for approximately 10 storm drain outfalls <b>(New)</b>	Flood	H	3
26	Install new bulkheads at street ends at higher level - approx. 15 <b>(New)</b>	Flood	H	3
27	Install new bulkheads on bay front properties <b>(New)</b>	Flood	H	3
28	Upgrade storm system/pumps in 6 areas of the Borough <b>(New)</b>	Flood	H	3
29	Jetty/groin construction <b>(New)</b>	Coastal erosion, Wave action	H	3

More detailed information on these individual actions is presented at the end of this annex.

## Contact Information

Borough of Longport's Statement of Authority to Participate identified a Primary Point of Contact and an Alternate for this hazard mitigation plan update. These individuals represented the jurisdiction on the county-wide Core Planning Group and led a local team of Jurisdictional Assessment Team Members who undertook various local activities related to the plan update.

HAZARD MITIGATION PLAN POINTS OF CONTACT						
Primary Point of Contact			Alternate Point of Contact			
Name: Bruce A. Funk Title: CRS Director, Emergency Management Coordinator Department: Zoning Address: 2305 Atlantic Avenue, Longport, NJ 08403 Phone Number: 609-823-2731 E-mail Address: zoning@longport-nj.us			Name: Title: Department: Address: Phone Number: E-mail Address:			
Jurisdictional Assessment Team Members						
Bruce A. Funk Title: Longport County: <a href="mailto:zoning@longport-nj.us">zoning@longport-nj.us</a> 609 823 2731 ext 120		Atlantic County, NJ				
*Note: If your community does not have someone filling the role of a position title in Column A, please insert the word "none" in Column B. Thank you.						
Local Jurisdiction Role/Position	Name	Email	Phone	Date of Invitation	Method of Invitation	Agreed to participate?
Mayor/Supervisor	Nick Russo	<a href="mailto:Mayor@longport-nj.us">Mayor@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Administrator	Scott Porter	<a href="mailto:administrator@longport-nj.us">administrator@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Clerk	Monica Kyle	<a href="mailto:clerk@longport-nj.us">clerk@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Engineer	Ed Dennis	<a href="mailto:emgineer@longport-nj.us">emgineer@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Attorney	Michael Affornato	<a href="mailto:solicitor@longport-nj.us">solicitor@longport-nj.us</a>				
Building Code Official	James Agnesino	<a href="mailto:building@longport-nj.us">building@longport-nj.us</a>				
Emergency Manager	Bruce A. Funk	<a href="mailto:zoning@longport-nj.us">zoning@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Fiscal/Budget Officer	Jenna Kelly	<a href="mailto:finance@longport-nj.us">finance@longport-nj.us</a>				
Floodplain Manager	Bruce A Funk	<a href="mailto:zoning@longport-nj.us">zoning@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Planner	Tiffany Morrissey	<a href="mailto:tcuviello@comcast.net">tcuviello@comcast.net</a>				
Public Works Director	Chris Beranato	<a href="mailto:pwsupervisor@longport-nj.us">pwsupervisor@longport-nj.us</a>		03/17/21	Appointment to LEPC	yes
Commissioner Finance	James Leeds	<a href="mailto:commissionerfinance@long">commissionerfinance@long</a>		03/17/21	Appointment to LEPC	yes
Commissioner Public Safety	Dan Lawler	<a href="mailto:commissionerpublicsafety@long">commissionerpublicsafety@long</a>		03/17/21	Appointment to LEPC	yes
Deputy EMC - Police Chief	Frank Culmone	<a href="mailto:culmone_frank@longportpd.org">culmone_frank@longportpd.org</a>		03/17/21	Appointment to LEPC	yes
Deputy EMC - BP Lieut	Tom Kresz	<a href="mailto:tkresz90@gmail.com">tkresz90@gmail.com</a>		03/17/21	Appointment to LEPC	yes
Deputy EMC - Fire Chief	Levon Clayton	<a href="mailto:firechief@longport-nj.us">firechief@longport-nj.us</a>				
Planner	Jim Rutala	<a href="mailto:jmrutala@comcast.net">jmrutala@comcast.net</a>			Independent Planner	yes

The Borough of Longport has reported undertaking the following internal activities in preparation of its mitigation plan:

Subject of JAT Activity (Meeting Notice, Emails, Etc.)	Date	INVOLVED PARTIES - Place an 'x' for any position title that participated										
		Mayor/ Supervisor	Administrator	Clerk	Engineer	Attorney	Building Code Official	Emergency Manager	Fiscal / Budget Officer	Floodplain Manager	Planner	Public Works Director
Haz Mitigation Update Public hearing	8/27/2021		Y					Y		Y	Y	Y
Legal Notice submitted to News Paper Haz Mit Meeting	8/20/021			Y				Y				
Notice sent to Haz Mit, LEPC, Mayor of meeting	08/20/21	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
Letter to residents about meeting & Haz Mit Survey	07/05/21	Y						Y				
Notice Borough Web Site about survey & Meeting	07/15/21			Y				Y				
Article Down Beach.com about the public hearing	08/28/21							Y				
Article Down Beach.com about the County Plan	05/23/21							Y				
Review comments from Haz Mit meeting & dev projects	09/03/21		Y	Y	Y			Y	Y	Y		Y

## Governing Body Format

The governing body of Longport is comprised of three commissioners, who are elected at-large to four-year concurrent terms of office on a non-partisan basis as part of the May municipal election. Each commissioner is assigned a department to oversee and administer. The Mayor is then selected from among the three elected Commissioners by a vote between them and assigned to the office by resolution.

## Land Use and Development Trends

An evaluation of growth and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan in 2010, and the last update in 2016. As part of this second plan update, Borough of Longport reviewed and updated its prior feedback to reflect current conditions as of mid-2021. Borough of Longport reported no major planned development in their jurisdiction.



### Atlantic County Multi-Jurisdictional Hazard Mitigation Plan Update Worksheet #3 – Growth and Development Trends Update

Performing an assessment of Growth and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Growth/development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred, unless backed up by a lack of development.

An evaluation of growth/development trends was undertaken by each participating jurisdiction as part of the development of the 2016 plan. Your municipality's prior response from 2016 is included on the next page in Part 1. Please review your community's prior feedback, and identify any changes that have occurred since that time so the most current information can be reflected in this 2021 plan update. In addition, please provide responses for Part 2.

Information for the 2016 plan was provided to us by: Bruce Funk, CFM, Zoning / Floodplain Administrator and CRS Director

Your Name: Bruce A. Funk

Title: Crts Director + Emergency Management  
Coordinator

Community: Longport

Email and Phone: zoning@longport-nj.us

Part 1 – Please update your response from 2016 to reflect current conditions in the community.

Community	<p><b>1. Land Uses and Development Trends in Hazard Areas as Reported in the 2016 Plan.</b> Please describe development trends occurring within your jurisdiction, such as the predominant types of development occurring, location, expected intensity, and pace by land use. While details are preferred, it is ok if your feedback is qualitative and quite general, such as “high-occupancy, high-density residential development is occurring near the waterfront”.</p>	<p><b>1a. Please update your response to reflect conditions in 2021</b></p>	<p><b>Regulations/Codes/Ordinances To Protect New Development From Natural Hazards as Reported in the 2016 Plan.</b> Does your jurisdiction enforce regulations/ordinances/codes to protect new development from the effects of natural hazards? (Some examples might be floodplain management ordinances enforcing FEMA’s NFIP for new development or substantial improvements in the floodplain; steep slope ordinances for community’s which may have landslide hazards; earthquake resistant design criteria and/or high wind design criteria; or buffer zones in wildfire hazard areas.) If so, please describe.</p>	<p><b>2a. Please update your response to reflect conditions in 2021</b></p>
<p>Longport, Borough of</p>	<p>The Borough of Longport contains 3 Residential zones. Rsf-1; Rsf-2, Rsf-3 (Rsf= residential single family). Longport is predominantly single family detached homes with two 6 story hi-rise complexes. Rsf-1 is located 29<sup>th</sup> Street East side of Atlantic Ave. to the point. Rsf-2 is located Pelham Ave. to 36<sup>th</sup> Street East of Atlantic Ave. Rsf-3 is located west of Atlantic Ave. from 36 to Bay Haven Drive. Although there has been some sporadic development (old homes torn down and new ones built approximately within Rsf-1 &amp; 2, 8 new homes) the majority of new developments old homes torn down and new ones built. 56 new homes have been constructed within the Rsf-3 Zone – (see Map) the Rsf-3 zones contain homes that were predominantly constructed in the 1950s. It is the area which has seen the most development over the past 3 years and we predict that this trend will continue. The total area of Longport is 2.37 sq. miles. It is predominantly a summer home community, with most of the Borough consisting of single family homes that are used predominantly as a vacation for weekend residences. The Borough contains 3 residential zones, a handful of duplexes, 2 mid-size 5 story</p>	<p>Longport’s year-round population has been declining over the past 10 years. Longport has become a seasonal destination! The development trend has been for Developers and Persons wanting to live here, to purchase an older home, Demo and reconstruct so called “McMansions.” McMansions defined as constructing a new home, maximizing every zoning aspects to the letter of the law!</p> <p>Longport has approximately 1200 Buildings located within the SFHA – Special Flood Hazard Area. Since the inception of our Hazard Mitigation Plan and updated Flood Damage Prevention Ordinance in 2008, 312 New Homes have been constructed and 36 Homes elevated, all to a higher regulatory</p>	<p>Longport is a participating community within the NFIP and CRS Programs and been enforcing the NFIP Regulations via a Flood Hazard Ordinance. Longport recently adopted a revised Ordinance replacing its Flood Hazard Ordinance, called the “Flood Damage Prevention Ordinance”. It contains all of the Model Requirements of the NFIP. It additionally contains several higher regulatory requirements. Basic Flood from EL 10 to EL 12. Substantial Improvements, And Substantial. Damage to 40% of Market Value. Substantial Improvements and Substantial. Damage accumulative over 7 yrs. Additional definitions for clarity. i.e. Enclosures, lateral additions, Building heights CRS, NFIP higher Regulatory standards. Increase cost of compliance, Rep Loss, Severe. Rep. Loss. Longport is surrounded by water on 3 sides. Its greatest hazard is flooding: Longport has a Zoning Ord. and Flood Hazard Ord. going back to the early 70s. The Flood Haz. Ord. contained the min. requirements as prescribed by NFIP. The “All Hazard Mit. Com.” Est. 9/07-reviewed all Hazards, developed a “New Flood Hazard Plan”, and</p>	<p>Longport enforces those requirements as outlined within the “Flood Damage Prevention Ordinance Chapter 99. Within that ordinance are higher regulatory standards for “Freeboard;” “Substantially Damaged/Substantially Improved Structures;” and requirements for submitting “Non_Conversion Agreements” and “Subsequent Enforcement Procedures.” Additionally under the Zoning Ordinance specifically 167-32D fill exceeding 1’ is prohibited.</p>

Community	<p><b>1. Land Uses and Development Trends in Hazard Areas as Reported in the 2016 Plan.</b> Please describe development trends occurring within your jurisdiction, such as the predominant types of development occurring, location, expected intensity, and pace by land use. While details are preferred, it is ok if your feedback is qualitative and quite general, such as "high-occupancy, high-density residential development is occurring near the waterfront".</p>	<p><b>1a. Please update your response to reflect conditions in 2021</b></p>	<p><b>Regulations/Codes/Ordinances To Protect New Development From Natural Hazards as Reported in the 2016 Plan.</b> Does your jurisdiction enforce regulations/ordinances/codes to protect new development from the effects of natural hazards? (Some examples might be floodplain management ordinances enforcing FEMA's NFIP for new development or substantial improvements in the floodplain; steep slope ordinances for community's which may have landslide hazards; earthquake resistant design criteria and/or high wind design criteria; or buffer zones in wildfire hazard areas.) If so, please describe.</p>	<p><b>2a. Please update your response to reflect conditions in 2021</b></p>
	<p>multi-family condominiums, nine parcels containing townhouses 2-4 stories in height, a commercial strip mall containing 2 restaurants, a Real Estate office and one Post Office with Realty Office attached. The Borough is essentially fully developed with some development limited to in-fill, reconstruction and/or tear-downs, all of which are governed by local municipal land use ordinances. Development trend of Longport are positive, properties (ground values) are valuable, most of the housing stock 20+ yrs old. Therefore older homes are being torn down and larger homes constructed to max out building and lot coverages.</p> <p>Since the last version of the plan was prepared, 113 new homes have been constructed.</p>	<p>standard. A Good Thing!</p> <p>If the development process continues at the same rate over the next 10 years, then in 2031 over half of Longport's Single Family Homes will have been replaced to today's higher standards. BUT, with sea-level rise and subsidence are our current standards adequate?</p>	<p>rec. revising a new "Flood Haz. Ord" w/higher req. standards. This was accomplished through a series of meetings/presentations and public hearings. Both were approved and adopted 9/08. For all new construction, substantial improvements, renovations, additions and alterations "prior approvals" including floodplain management and zoning review is required prior to issuance of a Bldg permit. A singular zoning Rev. and Floodplain Management application/permit was dev. 1/08 and is required for all construction.</p> <p>In 2013, Chapter 99, Flood Damage Prevention, was revised and the ABFE was adopted.</p>	<p>Longport's Floodplain Administrator is currently working with NJDEP Bureau of Flood updating our Flood Damage Prevention Ordinance to be compliant with their "Model Ordinance." The Model Ordinance incorporates the NJ Flood Hazard Control Act higher floodplain standards and required NFIP regulatory requirements with Statewide Uniform Construction Code flood resistant requirements.</p>

Part 2 – Please answer the following questions.

<p><b>Is major development planned? (yes/no)</b></p>	<p>Longport is predominately a residential community. There are two Mid-Rise structures/Condominiums with approximately 250 units. There are several other 2-3 story condominium projects scattered around Longport. There are two Church's and one commercial block. There is no ground available for any major development. At this time there is no major development planned!</p>
<p><b>If major development is planned, please describe generally in the box to the right, and then complete the rows below.</b></p>	

## National Flood Insurance Program Summary

Borough of Longport has participated in FEMA's National Flood Insurance program (NFIP) since 1971.

National Flood Insurance Program Data Borough of Longport	
Total number of policies <sup>1</sup>	1,326
Insurance in force <sup>2</sup>	\$363,123,800
Total number of losses during NFIP participation	1,276
Total claims paid during NFIP participation	\$37,994,177
Non-Mitigated Repetitive Loss Properties	48
Non-Mitigated Severe Repetitive Loss Properties	7

Longport also participates in the NFIP's Community Rating System (CRS). Longport entered the CRS in 1995, and is presently a Class 5 community receiving a 25% premium discount for policyholders in the Special Flood Hazard Area (SFHA) and a 10% premium discount for policyholders outside of the SFHA.

Longport provided the following NFIP Administrator Input in 2021, for inclusion in the 2022 Plan.

<sup>1</sup> Policies in Force from www.fema.gov NFIP Insurance Report, data current as of 06/03/21.

<sup>2</sup> Insurance in Force from www.fema.gov NFIP Insurance Report, data current as of 06/03/21



Name: Bruce A. Funk Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Community: Longport Email and Phone: zoning@longport-nj.us



**Atlantic County Multi-Jurisdictional Hazard Mitigation Plan Update - *Worksheet #2 - NFIP***

*Note: Data showing in the form at this time was provided for the 2016 plan by: Bruce Funk. This form should be updated by your floodplain administrator.*

*Longport: Your last WS2 was provided to us in hand-written PDF. We have done our best to transpose your responses here. For your convenience and reference, screenshots of your prior submittal are also included at the end of this document.*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP <sup>1</sup>	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)		Is this person is a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Is your community in good standing with the NFIP?	
9/17/2013	6/18/71	CRS Director / Zoning / Flood Admin		Yes	No	Yes	
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
As the Zoning / Floodplain Administrator, all permits are reviewed for zoning and floodplain requirements as a prior approval before being submitted to UCC submittal. The Floodplain Administrator is A Certified Floodplain Manager, New Jersey Certified Emergency Manager, and a NJ UCC Construction Official, Building Sub Code Official & Building Inspector RCS. Annually via outreach projects the NFIP services we provide are sent to our residents.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
Barriers noted – even though we are running a very effective program with a diversity of Public, appointed officials & residents participating, good outreach projects constantly trying to prepare residents, the process is extremely time consuming. I guess, like many communities the person overseeing CRS/NFIP & even Emergency Management wear many hats and time is limited. Personally I find it difficult to do my best with what little time I can offer. These positions need to be staffed on a full time basis in order to properly perform!							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to continue to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	Does your community participate in the CRS? If so, state your Class.	Does your community intend to continue its participation in the CRS program?	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
2017	Yes – scheduled April 2022	Yes	Yes	Yes	Yes – Class 5	Yes	N/A
*Describe any outstanding compliance issues (i.e., current violations):							
Longport has adopted the latest FIRM. The Borough's Flood Damage Prevention Ordinance Chapter 99, has established regulatory standards – including a minimal of 2' of freeboard, substantial damage / substantial improvement is 50% market value cumulative over 3 years, and requires Non-Conversion							

Name:  Bruce A. Funk  Title:  Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing:  Longport  Email and Phone  zoning@longport-nj.us



**Provide an explanation of your local floodplain permitting process:**

The Borough's Flood Damage Prevention Ordinance requires a permit for all work. The Zoning & Floodplain permit applications were combined and are considered a "Prior Approval." Zoning/Flood review is the first stop for all permits received. They are both considered prior approvals and must be submitted/approved before any UCC Permits are reviewed. They are recorded within a software program called the "Planner." Hard copies are filed within the properties respective Block/Lot. Additionally we record and track Substantial Damage/Substantially Improved properties on a program provided by "Forerunner." Forerunner additionally provides FIRM, ~~M&E~~ & Flood Zones on all Borough Properties. Forerunner also provides us with a DATA Base of all of our Elevation Certificates.

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	Does your community intend to provide local outreach to promote the sale of flood insurance?	Does your community intend to participate in RiskMAP meetings and planning initiatives?	Does your community intend to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to implement home improvement programs designed to minimize basement flooding?	Does your community intend to implement roadway improvements to reduce damage from future flooding events?	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> I am working on that!	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		Have there been any changes to your community's local floodplain management program since the last version of the plan?			
<input checked="" type="checkbox"/> Yes- done	<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> Yes			

**\* If you answered "yes", that there have been changes to your local program since the last version of the plan, please describe:**

Longport Adopted the FIRM 8-28-2018. We provide Outreach annually via Borough Web Site, Mailed Emergency Preparedness Guide, Annual Summer Preparedness/Flood Insurance Seminar, Preparedness Info in Local Phone Directory, Preparedness Info in Library/Building Department, offering Flood Map, Flood Insurance, Preparedness, and Mitigation Information.

Buyouts – are repetitive loss properties are scattered throughout the Borough with most beach front/bay front. The average cost of the ground (not the improvements) is about \$5 million per lot, with bay front lots at \$3 million – buyouts of repetitive loss properties is not feasible. However, we have been and push annually that funding is available to elevate your home.

A good think since the inception of our Hazard Plan in 2008 – some 312 properties and 36 properties elevated – all to a higher regulatory standard. If development continues at this pace, within 10 years almost half of our single family homes will have been reconstructed to higher standards and out of harms way.

As note earlier – too many hats for one person, I am trying to convince Borough Officials that additional help is needed. We did just hire a fulltime administrative person to the Building Department and I am hoping to delegate some NFIP/CRS/Emergency Management Projects to her.

Flood Insurance promotion is handled through our outreach projects and a annual summer seminar.

### Critical Facilities in Delineated Hazard Areas

Note that all assets and facilities in the Longport are considered to be at risk from County-wide hazards: Hurricane/Tropical Storm, Nor'easter, Extreme Wind, Tornado, Winter Weather, Lightning, Extreme Temperatures and Earthquake

Facility Name	Location	Facility Type	Flood, A Zone	Flood, V Zone (Wave)	Category 1-4 Storm Surge	Coastal Erosion	Sea Level Rise, 1 Ft	Sea Level Rise, 3 Ft	Dam Failure	Low to Moderate Wildfire	High to Extreme Wildfire
<b>Borough of Longport</b>											
Longport Borough Fire Dept.	2301 Atlantic Avenue	Fire Station	1	0	1	0	0	0	0	0	0
Longport Borough	2305 Atlantic Ave	Police Station	1	0	1	0	0	0	0	0	0
Longport Borough	Atlantic Ave	Public Works	1	0	1	0	0	0	0	0	0
<b>Total</b>			<b>3</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

## Summary of Estimated Potential Losses from Hazards

Estimated annual losses provided in this section are based on best available data, and the methodologies applied result in an approximation of risk. Loss estimates should be used to understand relative risk from hazards.

Uncertainties are inherent in any loss estimation methodology, arising in part from incomplete scientific knowledge concerning natural hazards and their effects on the built environment. Uncertainties also result from approximations and simplifications that are necessary for a comprehensive analysis (i.e., incomplete inventories, demographics or economic parameters).

It is important to note that this table reflects estimates of average annual damages. For any hazard, individual event damages could be substantially (orders of magnitude) higher.

Only hazards for which annual losses were quantified and presented in Section 3C are included in this table.

Summary of Estimated Potential Losses From Hazards		
Borough of Longport		
Quantified Hazard	Annualized Loss	Annual Loss Ratio
Extreme Wind	\$181,000	0.033%
Hurricane and Tropical Storm	\$33,000	0.010%
Lightning	\$1,600	0.000%
Tornado	\$500	0.000%
Drought*	\$0	0.000%
Winter Storm	\$4,900	0.001%
Coastal Erosion	\$0	0.000%
Flooding (Riverine)	\$0	0.000%
Storm Surge (Coastal Flooding)	\$8,489,000	1.740%
Earthquake	\$194	0.000%

\*Derived from crop values

## Outreach to the Public and Other Stakeholders

As part of this 2022 Plan Update, Borough of Longport undertook various activities to: (a) alert the public and other stakeholders to the fact that the HMP Planning Committee was working to develop the update; and (b) provide the public and other stakeholders with a forum to ask questions and submit comments and suggestions on the process. Outreach activities undertaken by Borough of Longport included those listed below. Comments arising from outreach activities are presented on the following page.

Outreach Activities			
Date of Activity	Type of Activity	Activity Details	Lead Department and/or Staff Title who Undertook Activity
5/10/21	Prep Hazard Mitigation Survey  Link Borough Web Site To County Web Site Haz Plan	Hazard Survey posted on web  Requested residents to take survey  Web add'l link residents to Co Haz Plan for comments	CRS/Floodplain Administrator
5/23/21	Media Article "Downbeach.Com"	Article about County wide Hazard Mit Plan Update	Downbeach.com media
6/1/21	Media Article Downbeach.com	Article about Longport's Hazard Mitigation Plan and the Hazard Mitigation Survey	Downbeach.com media
7/15/21	Mailing to all residents General Outreach	Letter from Mayor about Flood Insurance, Hazard Mit Plan Update, Hazard Mit Survey, County Plan that directed them to Borough Web to comment	CRS/EM Coordinator
8/27/21	Open Public Meeting	Review Hazards, access hazards, vulnerability, & Hazard Plan Update. In attendance, public officials, BA, Hazard Mit Committee, Local Emergency Planning Committee, Media, Department Heads, Deputy EMC's, the public	CRS? Emergency Management Coordinator
9/3/21	General Public Media article about our public hearing	Article referenced our plan update, the hazards we face, vulnerability, mitigation strategy, FEMA Grants received, projected projects	CRS Director/Floodplain Administrator & Downbeach.com

Outreach Activities			
Date of Activity	Type of Activity	Activity Details	Lead Department and/or Staff Title who Undertook Activity
9/13/21	Review mitigation projects with Borough Engineer, Business Administrator, CFO, Planner-Grant Writer, Borough Resident/Bay front	Meeting with Borough Engineer, etc to review comments, concerns form public hearing 9/27/21. Develop 3,5,10 year goals, determine which projects need Federal Funding vs Capital Improvement. Review list of Capital Improvement projects presented	CRS Director/Floodplain Administrator, Engineer, Rutala Associates Planner-Grant Writer, Business Administrator, CFO & Resident representing bay front properties
9/22/21	4 pm - Public Hearing/Commission Meeting  7 pm -Planning Board Meeting	Hazard Plan update to mayor, commissioners, the public  Hazard Plan update to Planning Board	CRS Director/Floodplain Administrator

Comments Log									
#	Comment	Comment Submitted By	Comment Submitted To	Comment Submitted on Date	How was comment submitted?	Disposition (Concur; non-concur; will evaluate)	Response / Action Proposed	Responsible Party	Action taken
1	Back Bay Flooding is a priority	Pat Armstrong	CRS Director/Public Hearing	08/27/21	Verbal	agree	We will look into elevating low bulkheads to new standard, add duck bills storm out flows, block scuppers in bulkheads	Floodplain Admin, Borough Engineer	Currently being discussed
2	Nuisance flooding Nor Easter a priority	Stephan Douglas	CRS Director/Public Hearing	08/27/21	Verbal	agree	Inform him of our Nuisance study 7 areas, Mitigation Grant for one area to mitigate and that we would set up game plan for other areas	Floodplain Admin, Borough Engineer	Currently being discussed
3	Flood Insurance premiums too high	Shawn Seilback	CRS Director/Public Hearing	08/27/21	Verbal	agree	Shawn is an Insurance Agent - indicated that Premiums high in most cases because residents do not have an EC - touch on Flood Risk 2.0 new rating system	Floodplain Admin,	We currently handle this info in outreach and one on one w/ residents
4	Beach stability	C. Simmons	CRS Director/Public Hearing	08/27/21	Verbal	agree	Our beach comes & goes, sand going south, to stabilize our beaches rock groin/jetty at 11th & beach needs to be extended	Floodplain Admin, Borough Engineer	Under advisement

Comments Log									
#	Comment	Comment Submitted By	Comment Submitted To	Comment Submitted on Date	How was comment submitted?	Disposition (Concur; non-concur; will evaluate)	Response / Action Proposed	Responsible Party	Action taken
5	At the public hearing there were about 40 persons the majority of the questions were about; back bay flooding; nuisance flooding; flood insurance premiums how to lower, keeping our beaches stable	General Public	CRS Director/Public Hearing	08/27/21	verbal	agree, except PW Complex and utilities need to be mitigated	WE will review those comments and develop mitigation objectives	Floodplain Administrator/Borough Engineer	Currently being discussed



## Capability Assessment

This section describes the following capabilities of Borough of Longport :

- Legal and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community resiliency
- Community political capability

As part of the 2022 Plan update, each participating jurisdiction reevaluated the capabilities they had provided for the 2016 Plan, and sent updates to the consultant for incorporation into this plan section. Borough of Longport has reviewed its responses from the 2016 Plan and has updated its prior feedback to reflect present-day conditions.

Legal and Regulatory Capability	
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this?
Building Code	Y
Zoning Ordinance	Y
Subdivision Ordinance	Y
Special Purposes Ordinance	Y
Growth Management Ordinance	N
Site Plan Review Requirements	Y
Comprehensive Plan	Y
Capital Improvements Plan	Y
Economic Development Plan	N
Emergency Response Plan	Y
Post-Disaster Recovery Plan	Y
Post-Disaster Recovery Ordinance	N
Real Estate Disclosure Ordinance	Y
Evacuation Plan	Y

## **2021 Plan Update -**

The Borough has adopted the latest NJ Editions of the International Building Codes. The Construction Official is responsible for updating UCC Requirements.

The Flood Hazard Mitigation Plan Goal & Objectives is annually reviewed by the Hazard Mitigation Committee, updated and any recommendations forwarded to the Planning Board for their review and consideration.

The Borough's Zoning and Flood Damage Prevention Ordinances are annually reviewed by the Zoning/Floodplain Administrator and updated.

Emergency Response Plans/Evacuation Plans are annually reviewed by all Department Heads and updated annually. Both Mid-Rise Condominiums have additionally created emergency response plans for their respective Buildings. These Plans are reviewed and updated annually by the Emergency Management Coordinator.

Note: The Borough has appointed 3 Deputy Emergency Management Coordinators to work alongside with the EMC. Both the EMC and one Deputy EMC Tom Kresz are both NJCEM!

The Borough has established a LEMC "Local Emergency Management Planning Committee." This Committee along with the Hazard Mitigation Committee will meet annually to review the Borough's Hazards, Access Vulnerability, and assist in developing Mitigation Plans. The Committees met at a Public Hearing On Aug 27th to review and discuss the Hazard Plan Update!

A Capital Improvement Plan is in the process of being updated incorporating the updated issues presented at the Hazard Plan Update Meeting. The key issues of concern are getting public/private bulkheads reconstructed to a higher elevation, completion of installation of Duck Bills at outfall pipes bay side, upgrading storm water drainage system adding pumps within the system, develop a mitigation plan for the Public Works Compound.

Note: Longport recently completed a "Nuisance Flood Study" by Stockton University. Seven areas were studied that typically flood. One area, the Winchester Ave Corridor, was found to be the first to flood and the last for flood waters to recede. The Borough utilized the data - information was able to secure a Mitigation Grant of 1.5 Million to develop a plan to help mitigate the nuisance flooding. It is our goal to develop a long term solution to help mitigate nuisance flooding within the Borough.

To the best of my knowledge I do not believe that the Borough has Growth Management Ordinance and/or an Economic Development Plan. These issues may already be addressed within the Borough's Master Plan. If not, these task will be considered by the Planning Board.

At this point in time the Borough does not have a "Post - Disaster Recovery Plan" or a "Post - Disaster Recovery Ordinance." These issues will be discussed at the Emergency Management Coordinators meeting along with the Deputy EMC's

Administrative and Technical Capability	
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this?
Planner(s) with knowledge of land development and management practices	Y
Engineer(s) with knowledge of land development and management practices	Y
Planner(s) or engineer(s) with knowledge of land development and management practices	Y
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y
Planner(s) or engineer(s) with an understanding of natural and/or human caused hazards	Y
Floodplain manager	Y
Surveyors	Y
Staff with education or expertise to assess the community's vulnerability to hazards	Y
Personnel skilled in GIS and/or HAZUS	Y
Scientists familiar with the hazards of the community	N
Emergency Manager	Y
Code Enforcement Official	Y
Public Works or Highway Superintendent	Y
Emergency Management Coordinator	Y

**2021 Plan Update -**

The Borough of Longport recently contracted with an Engineering Firm Remington & Verrnick, Consulting Engineers. They have the Planning/Engineering capabilities to handle land development and management practices; construction practices related to buildings and infrastructure; Surveyors; and skilled personnel for GIS/HAZUS.

The Borough utilizes Rutala Associates, LLC Professional Planner for Grant Applications and as a consultant for Hazard Vulnerability. The Borough has a LEPC & a Hazard Mitigation Committee to review annually our hazards and help in the development of Hazard Plan Updates.

The Zoning/Floodplain Manager is a Certified Floodplain Manager, a NJ Certified Emergency Management Coordinator, a Licensed NJ Construction Official, Building Sub Code Official and Building Inspector RCS. He is currently tasked with Floodplain Review, Emergency Management, organizing/meeting with the LEPC & Hazard Mitigation Committees, and annually reviewing -updating the goals & objectives of the hazard mitigation plan.

UCC Code Enforcement is provided by Ventnor City Code Enforcement through a shared service agreement.

Fiscal Capability	
Financial Resources	Accessible or Eligible to use
Community Development Block Grants (CDBG)	Y
Capital Improvements Project Funding	Y
Authority to Levy Taxes for Specific Purposes	Y
Fees for Water, Sewer, Gas, or Electric Service	Y
Impact Fees for Homebuyers or Developers for New Developments/Homes	Y
Incur Debt through General Obligation Funds	Y
Incur Debt through Special Tax and Revenue Bonds	Y
Incur Debt through Private Activity Bonds	N
Withhold Spending in Hazard-Prone Areas	N
Other (i.e., coastal, sustainability, or climate change initiatives; or Brownfield funds)	N

**2021 Plan Update –**

The Borough has and will continue to utilize funding through CDBG; Capital Improvements Projects; Fees for water/sewage; Incur Debt through General Obligation Funds; and Incur Debt through Special Tax & Refund Bonds. Specifics for the afore mentioned will need to be provided by our CFO.

At this time I do not believe that there are any special Impact fee for development, no withhold spending within the Special Flood Hazard Area, or any other special coastal, sustainability, climate initiatives, or Brownfield funding planned.

Note: Longport utilizes Rutala Associates, LLC for Grant Applications – We have received Grants to elevate residential homes, improve/mitigate storm drains in a specific area.

Note: Longport is a participating community with the NJ Coastal Coalition and have received Grants to Study Nuisance Flooding; install a Flood Warning Application and Real-time live camera for flooding in a site specific area.

Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?
High	M/High	High	High	High
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<p>Our flood hazard mitigation plan consists of seven priorities with 68 site-specific objectives. To date, 65% have been completed. We have done an outstanding job getting homes elevated and/or built higher and out of harm's way. We have completed some kind of initial projects incorporated. Beach side storm water outfall pipe extensions, rock revetment 22-17<sup>th</sup> or Atlantic Ave. Stormwater pump 33<sup>rd</sup> and Atlantic replacement bulkheads. Where we are currently lacking is protection and/or elevation of critical facilities – fire department and borough hall. Currently working on initial plans to elevate heating/mechanical equipment above 500 year level. Current goal to do a feasibility study for public works for their building/equipment/wells and pumping stations. But no money allocated to date for study. Any grants available?</p>				
<p><b>2021 Plan Update</b></p> <p>As noted above the majority of our previous “Hazard Mitigation Plan have been met. Over the past 5 years the utilities within Borough Hall and the Fire Department have been elevated to a 500 year level. We are currently looking at/planning for mitigating flood concerns at our other critical facilities, like the Public Works Complex. The Borough Engineer is working on short term-long term capital improvement projects for those facilities as well as nuisance flooding and hardening our infrastructure.</p> <p><b>THE PROBLEM – in order to accomplish our mitigation goals it will take millions of dollars that I do not think can be locally supported! We need to stay on top of and continue to apply for Federal Funding.</b></p>				

## Plan Integration

It is the intention of Borough of Longport to incorporate mitigation planning as an integral component of daily municipal operations. The balance of this subsection describes local accomplishments over the last planning cycle (2016-2021), and targeted activities for the next planning cycle (2022-2027), as reported by the Borough's CPG member and shared with the consultant for incorporation here.

Demonstration of Progress over the Last Planning Cycle (2016-2021) – Borough of Longport undertook the following plan integration mechanisms over the last planning cycle:

### Summary of Activities since 2016

- ✓ Longport has been a participating community in the NFIP since the mid seventies.
  - ✓ Longport has been a participating community in the CRS Program since the early 1990's and is currently a Class 5 community.
  - ✓ Longport was designated the first New Jersey barrier island community to be "Storm Ready" by the NWS in 2011.
  - ✓ Longport Building Department is classified by ISO as a BCEGS personal class of 3 and a commercial class of 2. They have adopted and enforce the NJ Edition of the International Construction Code.
  - ✓ Longport Zoning/Floodplain Administrator continues to enforce its' floodplain regulations.
  - ✓ The Floodplain Administrator/CRS Director annually meets with the Hazard Mitigation Committee to review the goals & objectives of the Hazard Mitigation Plan and update the plan accordingly.
  - ✓ The Emergency Management Coordinator working in conjunction with Department Supervisors including; Police, Fire, Building, Public Works and Beach Patrol have developed emergency storm preparedness SOPS for all departments and critical facilities.
  - ✓ The Emergency Management Coordinator working in conjunction tow mid-rise condominium complexes and the historical society property have developed emergency storm preparedness SOPS for their respective properties.
  - ✓ The Emergency Management Coordinator in cooperation with three new Deputy EMC's and the Borough Officials have established a Local Emergency Planning Committee. This Committee along with the Hazard Mitigation Committee recently organized a Public Hearing to review our hazards, access vulnerability and develop potential mitigation strategies'.
  - ✓ The Borough Engineer in cooperation with Borough Officials has utilized capital funding to mitigate projects noted in the plan, including elevating utilities at Public Work, City Hall and the Fire House.
  - ✓ Public Works annually inspects storm drains and after severe storms clean drain openings. The storm drains are opened and annually cleaned by ACMUA through a shared service contract.
  - ✓ The Borough's Master Plan has been updated and includes mitigation strategies.
  - ✓ The Borough via a Grant from The NJ Coastal Coalition and working with Stockton University performed a two year study on 7 site specific areas that are subjected to Nuisance Flooding.
  - ✓ Utilizing that data Longport received a 1.5 million Mitigation Grant to help reduce nuisance flooding within one area.
  - ✓ Utilizing that data Longport EMC was able to develop an "Early Storm Warning" for residents within those areas.
  - ✓ Longport has purchased and is currently installing it is own "Tidal Gage" to better determine the actual heights of the back bay during flood events.
- 
- ✓ Longport through the Coastal Coalition is in the process of installing a "Live Cam" outside Borough Hall showing one of the areas that typically floods during a nuisance flood event. This camera will be live on the Borough Web site and show "real time flooding."
  - ✓ The EMC has developed a "Preparedness Guide" that is annually sent to all residents. The guide contains information about the hazards that we face, preparedness activities and mitigation strategies.
  - ✓ Longport in conjunction with Ventnor and Margate developed a Down Beach "Watershed Management Plan."
  - ✓ Longport has received a Mitigation Planning Grant and is currently working on a Repetitive Loss/ Flood Insurance Plan.
  - ✓ Longport along with Ventnor & Margate annually sponsors a Hurricane/Flood Insurance Seminar each summer.
  - ✓ Longport's EMC has been a participating member of the Resilient NJ Atlantic County Coastal Region.

Targeted Plan Integration Activities for the Next Planning Cycle (2022-2027) – Borough of Longport plans to implement the following plan integration mechanisms into local government operations from this point forward through the next planning cycle:

#### PLAN INTERGRATION APPROACH FOR THE NEXT PLANNING CYCLE

Next, please describe the plan integration activities that your community will undertake over the next plan maintenance cycle (one to two paragraphs):

- ✓ Over 70% of the goals and objectives of our original plan dating back to 2008 have been accomplished.
- ✓ Based on the Boroughs "Hazard Mitigation Survey" via the Borough's Web site and a public hearing with the Hazard Mitigation Committee, Local Emergency Planning Committee, Public Officials, Departments Administrators and the Public – flooding and severe weather are our primary concerns.
- ✓ Issues addressed is back bay flooding, nuisance flooding and stabilization of our beaches.
- ✓ Mitigation strategies included elevating bulkheads street ends and on private properties. Duck bills currently being installed need to be purchased and installed at all storm water outflows bay side. Upgrading storm drain systems with pump back up. Mitigation strategies for the Public Works Complex. Adding a substantial extension to the rock groin/jetty at the end of 11<sup>th</sup> ave.
- ✓ These ideas are being discussed with the Borough Engineer, they will be prioritized and developed into capital improvement projects. Federal funding for these projects will additionally be reviewed and solicited.
- ✓ The planning process will always be from the bottom up with Hazard Mitigation goals/objectives prepared by/reviewed by the Hazard Mitigation & LEPC annually. The Borough Engineer will be a part of that process as well as the Planning Board for their review and consideration. Final plan/revised plans will then be present to the Mayor & Commissioners at a Public Hearing for their review and consideration.

## **Mitigation Strategy**

This subsection sets forth the mitigation strategy for Borough of Longport. It describes, in the following order:

- Progress on 2016 Plan Actions
- Hazard Mitigation Accomplishments
- Proposed 2022 Plan Mitigation Actions
- Action Worksheets

### **Progress on 2016 Plan Actions**

The following table was completed by the Borough of Longport JAT Committee Members. It summarizes the progress that was made on the local hazard mitigation initiatives that were set forth in the last version of the plan in 2016.

Borough of Longport has identified no major changes in priorities since the last version of the plan.



PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
1	Public awareness and outreach projects	High	All	CRS Director; Borough Clerk; Library, Emergency Management Coordinator & Coastal Coalition NJPPI	X				The Borough's natural hazards and preparedness activities are annually addressed with our outreach projects to Borough Residents. Additionally, Longport is a member of the NJ Coastal Coalition. The Coalition has develop a Multijurisdictional Program for Public Information.	X		Outreach projects are annually reviewed and updated - distribution of a safety bag to all residents deleted in 2019 - may be reinitiated on a limited basis in 2022 - key outreach projects include; participation in the Coastal Coalition MJPPI; Preparedness brochure mailed to all residents; Preparedness information published in Local Phone Book; Direct Mailing; Annual Summer Downbeach Hurricane Preparedness & Flood Insurance Seminar
2	72 hour emergency sustainable kit bag	Low	All	Emergency Management Coordinator					This project was dropped - actual kits were too costly. Within our outreach projects - we set forth guidelines as to how to prepare a 72 hr Sustainable kit	X	X	Still important - but the responsibility rests on the residents to prepare their own emergency bags
3	Storm Ready community designation	High	All	OEM / CRS Director	X					X		Longport EMC annually reviews the requirements for a SRC
4	Post Disaster Recovery Plan	High	All	OEM / CRS Director/Planning Board				X	This project is still under consideration. The project will be delegated to the Planning Board to develop a Recovery Plan	X		This is still a work in progress!
5	Warning banner on web site notifying residents of impending hazard.	High	All		X				This process has been refined and has been utilized for numerous storm warning. the process includes an emergency warning banner on Web Site, plus Face Book & Twitter.	X		We have found that utilizing the Borough Web Site & Social Media has become an important media for getting emergency information to Borough Residents!
6	Higher regulatory standard for new and substantially improved / damaged homes to install impact resistant glass and/or storm shutters	Medium	Wind	not identified				X	The project has been dropped. The wind velocity zone that we were in has been moved some 60 Miles off shore. UCC no longer requires High Impact Glass for new construction. This has been dropped!		X	If UCC no longer requires high impact glass for new construction, very difficult to enforce on SD & SI projects.
7	Elevation of Repetitive Loss Properties	High	Flooding	CRS Director	X				Funding is available/has been available for elevation projects. This funding and the necessity to	X		Elevating of RLP is the best way to get them out of harm's way. Very few RLP have been elevated, what we are finding, is that as they are purchased, they are

PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
									elevate is address in our annual outreach projects			demolished and new homes at higher regulatory standards are being constructed.
8	Portable power generation. Purchase a generator, install on a trailer, with cross connections to attach to existing generators, in case of generator failure	High	Flooding	CRS Director/ PW Supervisor/Borough Engineer			X		In discussion annually, but other projects have been the priority	X		We are currently discussing backup generators for critical facilities with Borough Engineer. This project will be included with in the Borough's Capital Improvements. We are considering backup generators at each site
9	Purchase and install storm shutters for historic society which is located in the historically designate coast guard station	High	Wind	Borough Engineer/Board of Directors Library				X	This project initiative was transferred to the Historical Society Board of Directors. It was determined to be too costly & dropped		X	Dropped because of funding requirements.
10	Purchase and install storm shutters, and/or replace existing windows with impact resistant glass for the Longport Volunteer Fire Department	High	Wind	Borough Engineer - CRS Director	X				This project after many delays was finally completed January 2021		X	Project was completed -
11	Storm preparation planning / SOP for all critical facilities	High	All	CRS Director - Emergency Management Coordinator/ all Dept Administrators	X				All Critical Facilities have a Storm Preparedness Plan in place that is annually reviewed and updated. Additionally, two mid-size condominium structures have emergency storm plans in place.	X		Annually reviewed and updated
12	Underground utilities	Low	All	not identified				X	The Borough currently requires all new construction, SI, SD structures to install their individual overhead utilities underground. But no attempts, except on a preliminary basis, to install all utility underground.	X		The Borough typically loses power several times a year. Most new homes utilize backup generators. It is still a mitigation goal to try to determine the feasibility of having all utilities go underground!
13	Higher uniform heights for bulkheads	Medium	Flooding	Borough Engineer	X				This has been completed, the borough has standard bulkhead heights for bay and ocean front properties.		x	

PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
14	Beach replenishment	High	Flooding	Mayor, Commissioners, NJDEP	X				This project has been completed and the dunes are doing well & growing	X		Annual inspection and spot repairs is undertaken by PW. Dune importance for shore front protection & environmental concerns are a part of our outreach projects. Refer to item # 29 for additional dune stabilization
15	Increase setback of homes from seawall and bulkheads	Low	Flooding, waves	Planning/DEP			X		NJDEP controls the setbacks of structures along the shoreline	X		This is on hold, it will be NJDEP that will be responsible to institute. Certain undersized beach front lots, if set backs are increased, then building a home will not be feasible.
16	Public Awareness & Education	High	All	OEM / CRS Director/Coastal Coalition MJPP			X		The Borough's natural hazards and preparedness activities are annually addressed with our outreach projects to Borough Residents		X	#16 is a duplicate of item # 1 therefore this action item is being DROPPED
17	Annual review of codes, ordinances and mitigation objectives	High	All	Zoning Official, Floodplain Manager, Borough Engineer, Haz Mit committee			X		The Hazard Mitigation Committee annually meets to review the goals & objectives of the Plan. Revised ordinances are then reviewed by the Borough Engineer and Planning Board	X		The Hazard Mitigation Committee and the Local Emergency Planning Committee will annually review with the Floodplain Administrator and Emergency Management Coordinator.
18	Elevation of critical facilities - feasibility study for Public Works, wells & pumping stations	High	Flooding	Mayor, Commissioners, Borough Engineer, Floodplain Administrator			X		The well that was compromised during Sandy (Well #1) is currently in the design phase to be elevated and have a new well house constructed. Adding flood protection at the pumping stations as well as reviewing mitigation for PW is in a discussion stage	X		These projects have been added to our list of Capital Improvement Projects. At our recent meeting Funding sources were discussed. TBC
19	Construct a new fire department, elevated at/above the 500-year level	Medium	Flooding	Mayor				X	The costs to replace the structure is prohibitive. All utilities within the structure have been elevated to a 500 year flood event		X	A new building no longer required, utilities have been elevated, windows & garage doors have been replaced with impact resistant units.
20	Elevation of residential homes that have the first floor elevations currently below the BFE	Medium	Flooding	CRS Director			X		Longport currently is receiving funding to elevate homes. This initiative is a part of our annual outreach	X		Longport has applied for and received FEMA Grants to elevate homes over the past five years. Longport will continue to apply for and advertise this funding annually to Borough Resident!

PROGRESS ON 2016 HAZARD MITIGATION PLAN INITIATIVES												
2016 Plan Initiative Number	Mitigation Initiative Description	2016 Plan Priority	Hazard(s) Mitigated	Lead and Support Agencies	Status				Status Details	Relevance		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated		Still Relevant - Carry Forward to Updated Mitigation Strategy	No Longer Relevant - Omit from Updated Mitigation Strategy	
21	Elevate utilities within Borough Hall and provide emergency power supply	High	Flooding	Borough Engineer	X				Utilities have been elevated above a 500 year flood event, new generator installed		X	This project has been completed!
22	Construct a public works complex above the 500-year floodplain	High	Flooding	Borough Engineer, CFO, BA, EMC, Public Works Admin			X		Refer to item # 18	X		This project is still in the initial discussion phase with the Borough Engineer, CFO, Business Administrator & EMC. It has been added as a potential Capital Improvement Project.
23	Elevate Well Head #1 and construct a new flood resistant well	High	Flooding	Borough Engineer, Public Works Admin			X		Refer to item # 18 - this is a duplicate		X	

## Hazard Mitigation Accomplishments (2016-2021)

The State of New Jersey 2019 HMP (Section 3, Page 3-30) requires identification of mitigation activities as an essential element of a local plan review. Information on the status of long-range mitigation strategies shall be contained in the original plan. Self-funded mitigation initiatives as well as past FEMA funded projects should be documented. The following table summarizes past mitigation accomplishments in Borough of Longport since the last version of the plan was adopted in 2016.

Past Mitigation Accomplishments				
Project	Status		Funding Source	Relationship to Plan
	Approved/Active Year	Completed Year		
Replace windows & doors Fire Department	2017	2021	Mitigation Grant	see item # 10
Elevate utilities in the fire department	2017	2020	Capital Improvements	see item # 19
Elevate utilities Borough Hall	2015	2019	Capital Improvements	see item # 21
Elevate RL Properties & properties below BFE	2017 -2021	approximately 6 homes have been elevated to date	Mitigation Grant	see item # 7 & 20
Dunes	2015	2018	Federal/State Funding	see item # 14
Replace Bulkheads street ends bay front to a 100 yr elevation	On going	six completed	Capital Improvements	see item #26
Nuisance Flooding Study – Stockton University	Completed	2019	Grant NJ Coalition	see item # 28
Tidal Gage - install tidal gage to monitor heights of actual flooding	In process of being installed	2021	Emergency Management budget	
Tidal Flooding Camera Installation of Camera monitoring actual flooding in one of the nuisance flooding areas real time - it will be real time flooding available on Borough Web Site	In process of being installed	2021	Grant NJ Coalition	

### Past Mitigation Accomplishments

Project	Status		Funding Source	Relationship to Plan
	Approved/Active Year	Completed Year		
Add Duck Bill at bay side storm water outfall pipes	On Going	2/21/2016	Capital Improvements	see item# 25
Rock Jetty/Groin Elevation Project 11th Ave & Point dive. Rocks were elevated approximately 5' to break impact of wave action and protect infrastructure and homes	Completed	2016	NJDEP Grant/FEDAL Grant	

## Proposed 2022 Plan Mitigation Actions

The process for selection and prioritization of mitigation actions is described in greater detail in Section 6 of the main text. The outcomes of that overall process are summarized here.

This plan proposes the actions determined to be the most appropriate for the resources and capabilities of Borough of Longport based on the experience of local officials, with input from the public and other stakeholders. Potential actions were reviewed relative to potential financial as well as administrative and legal costs and the degree to which they would be endorsed by the public. Potential actions were reviewed during the meetings relative to their potential benefit of effectiveness in saving lives, protecting the natural environment, and reducing disruption and damage. Actions selected by each jurisdiction include activities to protect existing and future structures and infrastructure and enhance community resilience.

Part of enhancing community resilience involves adapting to a changing climate. This plan's risk assessment includes information on climate change as part of the hazard vulnerability analysis and contain strategies/projects to address increased vulnerability that may result from climate change. By developing mitigating strategies and/or projects for hazards that are exacerbated by climate change, jurisdictions will better protect residents, avoid, or reduce damage to property and public infrastructure, and reduce personal hardship. Previous sections of this plan have presented information on how climate change may affect jurisdictional vulnerability or increased frequency of occurrence and/or severity in exposure to the identified hazards. Climate change is addressed by mitigating the various hazards that it exacerbates. The Borough of Longport has proposed a range of hazard mitigation initiatives to address their highest hazards including those hazards that are exacerbated by a changing climate.

Action priorities were determined by a qualitative prioritization process. A higher priority was assigned to projects where: the life/safety risk of taking no action was deemed to be unacceptably high; the project addresses one of the community's highest hazards and/or key risks; benefits were projected to equal or exceed project costs; critical facilities or key local assets were being protected; funding and staff resources were deemed to be sufficient and/or accessible for project implementation; the project is technically feasible and the community determined their legal authority to implement the action; negative environmental and/or social impacts were not identified during the assessment, or were very minimal; and/or where there was overall support for the project from the local community (government officials, public, and stakeholders).

Detailed Action Worksheets for each action item in the strategy are presented in the following pages.

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Longport</i>
<b>Community action number</b>	<i>#1 (reviewed 2018) (revised 2019)(revised 2020)(reviewed 2021)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>Educating the Public about hazard mitigation and it's benefits</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Education &amp; outreach</i>
<b>Action type</b>	<i>Public Awareness</i>
<b>Action description</b>	<i>The Borough thru the CRS Director distributes Emergency Preparedness information to the public via Town Topics, Legion Phone Directory, Library &amp; annual mailer - see</i>
<b>Existing, future &amp;/or NA</b>	<i>On Going: annual project</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Public Awareness prepares our residents for all hazard emergencies and/or at least gives/directs them to the information they needed!</i>
<b>Cost estimate</b>	<i>"Town Topics" 3 times per year \$ 6,000 - for 2020 Town Topics renamed "The Borough Buzz" only available via Borough Web Site Home Page- annual expense approx \$ 1,000.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Cost per household Web The Borough Buzz approx. \$1.00 per house hold. Annual mailing of Brochure \$2.50 per house hold</i>
<b>Technical</b>	<i>Feasible, public awareness, focuses on preparedness, reduces risk!</i>
<b>Political</b>	<i>None</i>
<b>Legal</b>	<i>None</i>
<b>Environmental</b>	<i>No adverse impacts noted, elimination of safety bags and printed materials in ba, as well as elimination of printed copy of news letter - saves trees!</i>
<b>Social</b>	<i>None</i>
<b>Administrative capability</b>	<i>Via CRS Director</i>
<b>Local champion</b>	<i>CRS Outreach Projects</i>
<b>Other community objectives</b>	<i>All of our outreach projects are a part of our local PPI &amp; Atlantic Cape Coalition Program for Public Outreach</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Annual review by the Hazard Mitigation Committee</i>
<b>Responsible party</b>	<i>CRS Director</i>
<b>Potential funding sources</b>	<i>Municipal Budget</i>
<b>Time line</b>	<i>Annual project for brochure mailed, spring, summer, fall for web news letter</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Status Quo- annual funding provided,</i>



<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#3 (reviewed 2018) (reviewed 2019)(reviewed 2020) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>The objective of the "Storm Ready Committee" is to annually review the Borough's preparedness for all hazards and our communities resilience</i>
<b>Describing the Action</b>	
Action category	<i>Planning to be prepared</i>
Action type	<i>Preparadness &amp; resiliency planning</i>
Action description	<i>See attachment</i>
Existing, future &/or NA	<i>NA</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Annual review should save lives and protect property during an event. Annual review of each departments hazard plan should better prepare them for an event</i>
Cost estimate	<i>No cost involved, just time to meet &amp; review!</i>
Cost effectiveness (i.e., benefit/cost)	<i>NA</i>
Technical	<i>NA</i>
Political	<i>None</i>
Legal	<i>None</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>Department Heads - Mayor, Public Work Supervisor, PD, LPFD, OEM, Beach Patrol</i>
Local champion	<i>NA</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>LP participats in the NWS "Storm Ready Program" requires annual review</i>
Responsible party	<i>OEM Coordinator</i>
Potential funding sources	<i>NA</i>
Time line	<i>Annual project</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Storm Ready was a goal within the Borough Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>To date</i>
<b>Community action number</b>	<i>#4 (reviewed 2018) (reviewed 2019)(2020 reviewed) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>A "Post Recovery Plan" should address all concerns with reconstruction within our community after a major event -</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Planning to be prepared</i>
<b>Action type</b>	<i>Post Recovery Planning</i>
<b>Action description</b>	<i>See attachment</i>
<b>Existing, future &amp;/or NA</b>	<i>Protect future development</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>safe guard residents properties, Borough critical facilities &amp; infrastructure</i>
<b>Cost estimate</b>	<i>Plan should be prepared with a Planner and in conjunction with the Planning Board coapprox. \$ 35,000 - \$ 50,000.</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>the benefit to build better after an event should prevent the same structures from being damaged again during a similar event</i>
<b>Technical</b>	<i>feasible via consultant</i>
<b>Political</b>	<i>difficult convincing mayor/commissioners to spend the money</i>
<b>Legal</b>	<i>None</i>
<b>Environmental</b>	<i>None</i>
<b>Social</b>	<i>None</i>
<b>Administrative capability</b>	<i>Department Heads - Mayor, Public Work Supervisor, PD, LPFD, OEM, Beach Patrol</i>
<b>Local champion</b>	<i>NA</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>NA</i>
<b>Responsible party</b>	<i>OEM Coordinator</i>
<b>Potential funding sources</b>	<i>FEMA Grants Planning</i>
<b>Time line</b>	<i>Future ?</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Post Recovery Plan was a goal within the Borough Hazard Mitigation Plan. TODATE nothing is on the table and no plans in near future to develop one!</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Longport</i>
<b>Community action number</b>	<i>#5 (reviewed 2018) (reviewed 2019)(reviewed 2020) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>All Hazards</i>
<b>Risk finding</b>	<i>Warn residents of any impending hazards via Code Red , the Borough's web site, face book, twitter &amp; downbeach TV 96</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Hazard Warning</i>
<b>Action type</b>	<i>Reverse 911 - warning banner on Boroughs Web Site &amp; local TV, face book &amp; twitter</i>
<b>Action description</b>	<i>When a hazard/weather event approaching we have ability to warn our residents</i>
<b>Existing, future &amp;/or NA</b>	<i>Warns, prepares &amp; protects residents</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>safe guard residents &amp; their properties</i>
<b>Cost estimate</b>	<i>Code Red \$ 3000. annual and is a budgeted expense</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>the benefit to build better after an event should prevent the same structures from being damaged again during a similar event</i>
<b>Technical</b>	<i>On going</i>
<b>Political</b>	<i>NA</i>
<b>Legal</b>	<i>None</i>
<b>Environmental</b>	<i>None</i>
<b>Social</b>	<i>None</i>
<b>Administrative capability</b>	<i>Web site, TV, twitter, face book via Borough Clerk; Code Red via OEM Coordinator</i>
<b>Local champion</b>	<i>NA</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>NA</i>
<b>Responsible party</b>	<i>OEM Coordinator/Borough Clerk/Tax Administratot</i>
<b>Potential funding sources</b>	<i>NA</i>
<b>Time line</b>	<i>on going</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Warning Systems are a goal within the Borough Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#7 (reviewed 2018) (reviewed 2019)(reviewed 2020) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>elevating repetitive loss properties prevents continued damage</i>
<b>Describing the Action</b>	
Action category	<i>Structural Flood Mitigation</i>
Action type	<i>Elevation</i>
Action description	<i>Elevates RL, SRL, and properties below the BFE to a minimum of +2' above BFE</i>
Existing, future &/or NA	<i>protects property to a higher regulatory standard</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>elevating plus 2' or 3' above the BFE prevents damages</i>
Cost estimate	<i>approx \$ 50,000 to \$ 150,000 per property</i>
Cost effectiveness (i.e., benefit/cost)	<i>the benefit to build better protects property. 2/3 of the RL/SRL account for over 50% of all our flood insurance claim loses</i>
Technical	<i>NA</i>
Political	<i>NA</i>
Legal	<i>None</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>We do not have the ability to over see the construction process</i>
Local champion	<i>NA</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>NA</i>
Responsible party	<i>CRS</i>
Potential funding sources	<i>HMGP - we currently have grants available - see attached</i>
Time line	<i>annual review</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#8 (reviewed 2018) (reviewed 2019)(reviewed 2020) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>Purchase a generator on a trailer with the capabilities to connect to wll pumps, sewage pumps, additional generators at the critical facilities</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>Portable Power Generation</i>
Action description	<i>purchase a generator, install on mobile trailer, cross connections to feed existing generators in case of power failures</i>
Existing, future &/or NA	<i>future - protects critical facilities</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>needed to provide back up power sources for emergency responders at Borough Hall, Fire/Police Stations, wells &amp; pumping stations</i>
Cost estimate	<i>approx. \$ 75,000.- \$ 100,000.</i>
Cost effectiveness (i.e., benefit/cost)	<i>yes</i>
Technical	<i>NA</i>
Political	<i>NA</i>
Legal	<i>None</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>public works</i>
Local champion	<i>public works supervisor</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>NA</i>
Responsible party	<i>OEM &amp; PW Supervisor</i>
Potential funding sources	<i>HMGP Grants and/or military surplus</i>
Time line	<i>annual review</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#12 (reviewed 2018) (reviewd 2019)(reviewed 2020) (reviewed 2021) OPEN</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>risk management - all utilities over-head utility lines going under ground</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>structural project - all utility lines going under ground</i>
Action description	<i>we currently require the service lines feeding new homes, substantial improvements to go under ground but not the main overhead utility feeds</i>
Existing, future &/or NA	<i>futurew</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>protects infrastructure</i>
Cost estimate	<i>\$ 34,000,000 or about \$20,000 per household</i>
Cost effectiveness (i.e., benefit/cost)	<i>debatable - long run yes, less damage during wind, ice &amp; flooding events, less interruption of services</i>
Technical	<i>NA</i>
Political	<i>yes, too expensive</i>
Legal	<i>None</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>NA</i>
Local champion	<i>OEM Coordinator</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>LOW</i>
Local planning mechanism	<i>NA</i>
Responsible party	<i>AC Electric Co.</i>
Potential funding sources	<i>NA</i>
Time line	<i>Future</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#14 (reviewed 2018) ( reviewed 2019) Beach replenishment completed</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>Structural &amp; Natural Resource Protection</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>Beach replenishment</i>
Action description	<i>Dunes installed to protect our community</i>
Existing, future &/or NA	<i>On Going!</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>protects infrastructure, critical facilities and homes</i>
Cost estimate	<i>FEMA &amp; the State of NJ</i>
Cost effectiveness (i.e., benefit/cost)	<i>yes</i>
Technical	<i>yes, dunes have proven to be natural barriers against flooding</i>
Political	<i>yes, beach front residents were against the project</i>
Legal	<i>There were issues obtaining reparation grants</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>NA</i>
Local champion	<i>Mayor</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>via resolution/approved</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>federal/state</i>
Time line	<i>Completed</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Longport</i>
<b>Community action number</b>	<i>#15 (revised 2017) (reviewed 2018)(reviewd 2019) DELETED</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding/wave damage</i>
<b>Risk finding</b>	<i>Structural damage cause by waves</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Mitigation</i>
<b>Action type</b>	<i>Increase set backs beach front properties</i>
<b>Action description</b>	<i>CAFRA requires a 25' set back, this is far greater than our ordinances, the CAFRA set back along with the Dunes installed should protect homes from wave damage</i>
<b>Existing, future &amp;/or NA</b>	<i>REMOVED ACTION</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>protects infrastructure, critical facilities and homes</i>
<b>Cost estimate</b>	<i>NA</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>yes</i>
<b>Technical</b>	<i>NA</i>
<b>Political</b>	<i>yes, lots a tight, any increase in setbacks will decrease size of beachfront homes</i>
<b>Legal</b>	<i>?</i>
<b>Environmental</b>	<i>None</i>
<b>Social</b>	<i>None</i>
<b>Administrative capability</b>	<i>NA</i>
<b>Local champion</b>	<i>NA</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Low</i>
<b>Local planning mechanism</b>	<i>via ordinance</i>
<b>Responsible party</b>	<i>Planning Board</i>
<b>Potential funding sources</b>	<i>NA</i>
<b>Time line</b>	<i>This action has been deleted !</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>



<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#17 (revised 2017) (reviewed 2018) (reviewed 2019) PB revised several ordinances see attached (reviewed 2020) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>All Hazards</i>
Risk finding	<i>annually review our codes to make sure they address the plan's goals &amp; objectives</i>
<b>Describing the Action</b>	
Action category	<i>Code Updates- planning/zoning/flood &amp; UCC</i>
Action type	<i>Code Review</i>
Action description	<i>annually review our codes to make sure they address the plan's goals &amp; objectives</i>
Existing, future &/or NA	<i>reviewed annually</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>protects residents &amp; their properties</i>
Cost estimate	<i>NA</i>
Cost effectiveness (i.e., benefit/cost)	<i>yes</i>
Technical	<i>yes via Building Dept</i>
Political	<i>none</i>
Legal	<i>NA</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>CRS/OEM/UCC</i>
Local champion	<i>CRS Director</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>Medium</i>
Local planning mechanism	<i>Ordinance Changes &amp; Code Updates</i>
Responsible party	<i>Zoning/Floodplain Administrator</i>
Potential funding sources	
Time line	<i>Annual</i>
<b>Reporting on Progress</b>	
Action progress status	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Longport</i>
<b>Community action number</b>	<i>#18 (revised 2017) (reviewed 2018) (reviewed 2019)(reviewed 2020) (reviewed 2021)</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Thew Public Works Complex, our wells, pumping stations, fire house need to be protected from flooding</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Critical Facility Protection</i>
<b>Action type</b>	<i>Elevate/Protect Critical Facilities - Recommend Feasibility Study</i>
<b>Action description</b>	<i>Hire consult to perform a feasibility study all critical facilities in order to determine best mitigation practices and/or reconstruct</i>
<b>Existing, future &amp;/or NA</b>	<i>Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>With out Public Works, Water &amp; Sewage capabilities, residents will be unable to return to their homes after a storm</i>
<b>Cost estimate</b>	<i>Feasibility Study \$ 35,000 - \$ 45,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>yes</i>
<b>Technical</b>	<i>yes via a consultant</i>
<b>Political</b>	<i>none</i>
<b>Legal</b>	<i>NA</i>
<b>Environmental</b>	<i>None</i>
<b>Social</b>	<i>None</i>
<b>Administrative capability</b>	<i>via consultant</i>
<b>Local champion</b>	<i>CRS Director/OEM Coordinator</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Resolution</i>
<b>Responsible party</b>	<i>Mayor &amp; Commissioners</i>
<b>Potential funding sources</b>	
<b>Time line</b>	<i>Future</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
<b>Your plan name</b>	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>Longport</i>
<b>Community action number</b>	<i>#20 (revised 2017) (reviewed 2018) (reviewed 2019) Deleted/duplicate of # 7.</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flooding</i>
<b>Risk finding</b>	<i>Elevate homes below the BFE to a minimal of plus 2'</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structural - elevation of homes below the BFE</i>
<b>Action type</b>	<i>Elevate/Protect Critical Facilities - Recommend Feasibility Study</i>
<b>Action description</b>	<i>During Sandy approx 50 homes were substantially damaged, most were below the BFE obtain HMGP grants to fund elevation projects</i>
<b>Existing, future &amp;/or NA</b>	<i>Existing &amp; Future</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>An elevated structure 2' to 3' feet above the BFE likely not to be flooded</i>
<b>Cost estimate</b>	<i>\$10,000,000 - Longport recently received a \$1,000,000 HMGP Grant 5 homes will be elevated in 2018</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>yes</i>
<b>Technical</b>	<i>yes via a consultant</i>
<b>Political</b>	<i>none</i>
<b>Legal</b>	<i>NA</i>
<b>Environmental</b>	<i>None</i>
<b>Social</b>	<i>None</i>
<b>Administrative capability</b>	<i>via consultant</i>
<b>Local champion</b>	<i>CRS Director/OEM Coordinator</i>
<b>Other community objectives</b>	<i>NA</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>Revised HIGH</i>
<b>Local planning mechanism</b>	<i>NA</i>
<b>Responsible party</b>	<i>Consultants</i>
<b>Potential funding sources</b>	<i>HMGP</i>
<b>Time line</b>	<i>existing &amp; Future</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>This objective is noted with the Borough's Hazard Mitigation Plan</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#22 (revised 2017) (reviewed 2018) (reviewed 2019) (2021 in discussion-early design stage)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding</i>
Risk finding	<i>During Sandy the entire Public Works Complex was flooded 2'-3' feet water</i>
<b>Describing the Action</b>	
Action category	<i>Structural - elevation of critical facilities</i>
Action type	<i>Elevate/Protect Critical Facilities -</i>
Action description	<i>Construct a new Public Works Complex to a 500 yr level</i>
Existing, future &/or NA	<i>Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The elevation of the PW Facility will allow PW to function before, during &amp; after a flood event</i>
Cost estimate	<i>\$2,700,000 to \$3,500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>yes protects critical facility</i>
Technical	<i>yes via borough engineer</i>
Political	<i>Expense, w/out federal grants may never happen</i>
Legal	<i>NA</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>Borough Engineer</i>
Local champion	<i>CRS/OEM Coordinator</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>HIGH</i>
Local planning mechanism	<i>NA</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>HMGP</i>
Time line	<i>Future</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Deleted duplicate of PW #18</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#24 (new 2019)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flooding and high cost of Flood Insurance</i>
Risk finding	<i>over 5 years flood insurance for Borough Buildings \$ 45,000 to \$ 75,000. With EC we could determine what mitigation methods we could do to lower insurance premiums</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>flood proofing wet or dry</i>
Action description	<i>install flood vents, back fill basement and/or crawl space, elevate electric Borough Buildings</i>
Existing, future &/or NA	<i>Future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Lowers flood insurance premiums</i>
Cost estimate	<i>\$5,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>yes protects critical facility</i>
Technical	<i>yes via borough engineer</i>
Political	<i>NA</i>
Legal	<i>NA</i>
Environmental	<i>None</i>
Social	<i>None</i>
Administrative capability	<i>Borough Engineer</i>
Local champion	<i>CRS/OEM Coordinator</i>
Other community objectives	<i>NA</i>
<b>Implementing the Action</b>	
Priority	<i>HIGH</i>
Local planning mechanism	<i>NA</i>
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>HMGP</i>
Time line	<i>Future</i>
<b>Reporting on Progress</b>	
Action progress status	<i>budgeted item 2020</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#25 (new 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Back Bay Flooding</i>
Risk finding	<i>Every since Sandy Longport has realized that back bay flooding is a significant reason for Longports flooding- duck bills at storm outflows have been added some areas but not all</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>Protective measures</i>
Action description	<i>Plug open scuppers in bay side bulkheads and install Duck bills for approximately 10 storm drain</i>
Existing, future &/or NA	<i>existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This will help bayfront properties from flooding</i>
Cost estimate	<i>approx. \$ 3,000 per duck bill x 10 unit \$ 30,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>very beneficial</i>
Technical	<i>vis Borough Engineer</i>
Political	
Legal	
Environmental	
Social	
Administrative capability	<i>Borough Engineer</i>
Local champion	
Other community	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital Improvement Plan or Mitigation Grant</i>
Time line	<i>Complete by 2022</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Add to 2022 budget or seek Hazard Mitigation Grant</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#26 (new 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Back Bay Flooding</i>
Risk finding	<i>Every since Sandy Longport has realized that back bay flooding is a significant reason for Longports flooding- although we have established minimal heights for bulkheads some street ends and private properties are still low</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>Protective measures</i>
Action description	<i>Install new bulkheads at street ends at higher level - approx 15</i>
Existing, future &/or NA	<i>existing</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This will help bayfront properties from flooding and flood water from flowing down the street to lower areas</i>
Cost estimate	<i>approx. \$ 75,000 per street end x 15 = \$ 1,125,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>very beneficial</i>
Technical	<i>vis Borough Engineer</i>
Political	
Legal	
Environmental	
Social	
Administrative capability	<i>Borough Engineer</i>
Local champion	
Other community	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital Improvement Plan or Mitigation Grant</i>
Time line	<i>Budget via Capital improvements 3 Or 4 per year until complete or seek Mitigation Grant Funding</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Add to 2022 budget or seek Hazard Mitigation Grant</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#27 (new 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Back Bay Flooding</i>
Risk finding	<i>Every since Sandy Longport has realized that back bay flooding is a significant reason for Longports flooding- although we have established minimal heights for bulkheads some homes bay side are low</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>Protective measures</i>
Action description	<i>Install new bulkheads on bay front properties</i>
Existing, future &/or NA	<i>future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This will help bayfront properties from flooding and flood water from flowing down the street to lower areas and onto other properties</i>
Cost estimate	<i>approx. \$ 275,000 per property x 15 homes \$ 4,125,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>very beneficial</i>
Technical	<i>vis Borough Engineer</i>
Political	<i>question - can we force bayfront properties to do this on their own?</i>
Legal	<i>Not sure if we have power to impose and/or go onto their property?</i>
Environmental	
Social	
Administrative capability	<i>Borough Engineer</i>
Local champion	
Other community	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital Improvement Plan or Mitigation Grant</i>
Time line	<i>Future</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Seek Hazard Mitigation Grant</i>



<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#28 (new 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Nuisance Flooding</i>
Risk finding	<i>Longport conducted a two year study on Nuisance flooding 7 areas. We know when they will flood, how long, how high. We received a \$ 1.5 million grant to mitigate one area. Six are remain. Add new storm dtains &amp; pumps will not stop the flooding, but will mitigate extent/time frame.</i>
<b>Describing the Action</b>	
Action category	<i>Mitigation</i>
Action type	<i>Protective measures</i>
Action description	<i>Upgarde storm system/pumps in 6 areas of the Borough</i>
Existing, future &/or NA	<i>future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>This will help bayfront properties from flooding and flood water from flowing down the street to lower areasand onto other properties</i>
Cost estimate	<i>Approx. \$ 1.5 million per areax 6 = \$9 million</i>
Cost effectiveness (i.e., benefit/cost)	<i>very beneficial</i>
Technical	<i>vis Borough Engineer</i>
Political	
Legal	
Environmental	
Social	
Administrative capability	<i>Borough Engineer</i>
Local champion	
Other community	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	
Responsible party	<i>Borough Engineer</i>
Potential funding sources	<i>Capital Improvement Plan or Mitigation Grants</i>
Time line	<i>Future</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Seek Hazard Mitigation Grant</i>

<b>Action Worksheet</b>	
Your plan name	<i>Atlantic County Multi-Jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Longport</i>
Community action number	<i>#29 (new 2021)</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Beach Fill Stabilization</i>
Risk finding	<i>Any one who has ever lived in Longport knows that the beaches/sand flows south. As long as the communitesto our north get sand, we benefit. If the rock groin/jetty at 11th ave &amp; the beach was extended100 ys +-, the sand migration would stop. A good example is south end of Brigantine. That wouldstablize sand migration on Absecon Island</i>
<b>Describing the Action</b>	
Action category	<i>Prevention/protective</i>
Action type	<i>Protective measures</i>
Action description	<i>Jetty/groin construction</i>
Existing, future &/or NA	<i>future</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Beach Fill Stabilization- will help prevent loss of dunes and prevent wave action/damage to beachfront homes</i>
Cost estimate	<i>\$2.5 Million</i>
Cost effectiveness (i.e., benefit/cost)	<i>very beneficial</i>
Technical	<i>Army Corps of Engineers</i>
Political	
Legal	
Environmental	
Social	
Administrative capability	<i>Borough Engineer&amp; ACOE</i>
Local champion	
Other community	
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	
Responsible party	<i>City,NJDEP, Federal Partners</i>
Potential funding sources	<i>NJ &amp; Federal</i>
Time line	<i>Future</i>
<b>Reporting on Progress</b>	
Action progress status	

## Borough of Longport – Supplemental Information for Mitigation Actions

### Activity #1 - Educating the public about hazards and preparedness – “Education & Outreach”

Description –

1. The Hazard Mitigation Committee annually reviews all local outreach projects
  2. The Borough is a participating community in the New Jersey Coastal Coalition. The Coalition has prepared a regional PPI with stake holders who prepare/distribute public outreach.
  3. The Borough clerk maintains/monitors the outreach projects for the Web and Social Media.
  4. The Library brochure stand contains pamphlets for “Emergency Preparedness”.
  5. The Building Department brochure stand contains pamphlets for “Emergency Preparedness”.
  6. The CRS Director annually mails a “Hazard Preparedness Guide” to all Borough Residents.
  7. The American Legion Phone Directory contains “Hazard Preparedness” information within the directory. The Phone book is annually distributed to all residents each summer.
  8. Ventnor, Margate, Longport annually have a Hurricane/Flood Insurance Open House where preparedness activities and flood insurance promotion and reduction issues are discussed.
- Documents for the above referenced outreach projects can be located under CRS 330

### Activity #3 – Storm Ready Community

Description – CRS 510

1. A “Storm Ready” community is nationally designated by the National Weather Service and the New Jersey Storm Advisory Board. It shows Longport’s dedication to effective management of weather-related hazards and situational awareness. There are only 26 communities in the State of New Jersey with this special designation.
2. Storm Ready is a CRS 510 Activity
3. To become a “Storm Ready” Community we must meet the following!
  - Establish a 24-hour warning point and emergency operations center
  - Have more than one way to receive severe weather conditions and forecast and to alert the public
  - Create a system that monitors weather conditions locally
  - Promote the importance of public readiness through community seminars
  - Develop a formal hazardous weather plan, which includes training severe weather spotters and holding emergency exercises
4. Longport’s Preparedness
  - Warning Points – Longport has 5 ways of receiving NWS advisories; NOAA Weather Radio, Law Enforcement Teletype, Television, AM/FM Radio and via emergency alerts via Atl. Co. OEM.
  - Local Weather & Tidal Flooding Monitoring – the Borough utilizes shared services for dispatch with EHT, they monitor the NWS & TV “Weather Channel.
  - Local Warning Dissemination – the Borough currently utilizes, tests and maintains two warning alert/siren systems, a local alert broadcast system, an emergency banner on the borough web site, monitors and can direct emergency info via channel 97, and can disseminate emergency information via CODERED.

- Local Warning Points with NWS Alert devices include; Police Department (24hrs), Public Works (7am -4pm), the Library(during hrs open), City Hall Clerks Office (9am-430pm), and within the Building department(9am -430pm)
- Community Preparedness – the Borough maintains and annually reviews public outreach.
- Administrative Tools – the Borough maintains/updates a Hazardous Weather Plan for all critical facilities, procedures for reporting storm damage to the NWS, Emergency Activation Procedures for TV 97, Code Red, Borough Web Site & Face Book, Local Warning System Activation Criteria and Warning Point Personnel with Authority to activate systems.

#### **Activity #4 – Post Disaster Recovery Plan**

##### Description –

- What becomes of Longport after a disaster like a hurricane or a severe Nor-Easter hits our shores? How long does it take to rebuild? Is there anything we can do to speed up the process, to reduce the losses, to become more resilient?
- Lessons learned from Sandy – info from State of NJ, DEP. UCC as to rebuild heights was conflicting. Should had we eliminated permit fees? What did we learn?
- The Borough of Longport has a Master Plan. The current plan does not take into consideration a Post-Disaster Mitigation Plan, nor does it include any of the goals & objectives of the Flood Hazard Plan, Mitigation strategies of our Critical Facilities, or any of the recommendations of “Getting to Resilience” as prepared by Rutgers EDU/Jacques Cousteau.

##### Basic Components of a Post Disaster Plan –

1. Public Engagement - design the public engagement process with the end in mind.
2. Measuring Success in Recovery – identify standards/metrics in order to determine the effectiveness of our recovery.
3. Planning Resilient Infrastructure – understand the risks to our infrastructure, perform in-depth risk analysis for all key facilities, identify projects to reduce risk, identify mitigation actions, seek out funding opportunities for mitigation planning and projects.
4. Affordable Housing – our biggest concern within this task is our senior population, loss of their housing and no income to rebuild. We need to look into funding for rebuilding/repairing their homes when damaged/destroyed.
5. Economic Recovery for Manufacturing – Not an issue for Longport, but we need a recovery plan to help our commercial properties.
6. Flood Insurance & Design Standards – we need to take the time to plan, not react, for a successful rebuilding approach. We need to ensure that key post-disaster NFIP Requirements are met. We need to rebuild for long term resilience. We need to incorporate a variety of measures to reduce future flood losses. Higher regulatory standards are a key!
7. Planning for Post-Disaster Recovery – develop a model ordinance to provide the legal authority for actions commonly found useful in expediting recovery.
8. Financial Recovery – know the various kinds of funding available for post disaster recovery & how to get them. Understand the overall damage as well as fiscal & economic impacts of the disaster on our community.

9. Green Infrastructure & Post Disaster Recovery – Green infrastructure reduces damage from storm surges.
10. Hazard Mitigation in Disaster Recovery – proper land use planning is critical, build for a resilient future, understand funding sources.
11. Visioning- disaster can bring change, know the challenges & opportunities.

#### **Activity #5 – Hazard Warning**

##### Description –

When emergency occurs or there is a predicted event, the Borough has a series of SOP's and emergency procedures for notifying the public.

1. CodeRed – is a reverse 911 notification service. OEM has the ability to reach out to over 1000 subscribers to inform residents of the emergency and appropriate actions to take.
2. Web Site – Borough Clerk can install on the home page an emergency banner informing residents of the emergency and appropriate actions to take.
3. Face Book / Twitter- Borough Clerk can post on Face Book informing residents of the emergency and appropriate actions to take.
4. TV 97 Public Television – Borough Clerk has access to install emergency warning on this site
5. Emergency Warning System/ Siren – the system has pre-recorded emergency messages and the ability to voice over-ride/record information during an emergency.
6. Last Resort – PD & FD can do a street to street/door to door notification.
7. Longport has completed a Nuisance Flooding Study of seven areas that typically flood. We have developed via CodeRed the ability to pre-warn residents when these areas will flood. We are currently designing outreach projects to promote this activity.

#### **Activity #7 – Elevation Projects**

##### Description –

- Elevation of RL, SRL and properties below the BFE. Longport in conjunction with Brigantine and Margate have received HMGP Grants in 2016, 2017, 2018 and 2020 to elevate properties. The funding will cover 75% up to \$ 200,000 to elevate homes that are RL, SRL and properties that are below the BFE.
- To date – Longport has –
  - 2016 – 4 properties approved
  - 2017 – 3 properties conditionally approved
  - 2018 – 8 properties applied
  - 2020 – 5 properties applied
- Rutala Associates handles the applicants applications and invoices the Borough. The invoices are then reimbursed by the grant.
- Problem – none of our RL or SRL properties are applying for the funding to elevate. Some have been purchased, demolished and reconstructed to our higher standards!

### **Activity #8 – Portable Power Generator**

#### Description –

- The Borough of Longport has one sewage pumping station located at 14<sup>th</sup> and Atlantic Ave and three wells. One at 31<sup>st</sup> & Winchester Ave and two at the public works complex located at 31<sup>st</sup> and Devon Ave. All three of these locations have back-up generators in case of a power outage.
- The Fire Department, Police Department and the Borough Hall Complex recently had a back-up generator upgrade.
- The issue, if any of these generators fail, there is no back-up system to take their place on a temporary basis. The generators would have to be repaired in place and during an emergency could take days to do!
- For that reason, we should have the capability of having a generator mounted on a trailer with the appropriate hardware to be able to connect to any of these critical facilities in case of generator failure.
- This project is currently under review by the Borough Engineer

### **Activity #12 – Overhead Utilities Underground**

#### Description –

- The Borough of Longport through the enactment of Zoning Ordinances has required for some 15 years that all new construction and homes that are substantially improved, that all overhead lines must be installed underground.
- But typical of most cities/municipalities the Electric Company still maintains thousands of poles and overhead wires. The objective of this activity is to have these lines installed below ground over a period of time.
- It was estimated back in 1998 that the cost was around \$ 34,000,000. Or about \$20,000 per house hold. The project is not doable if each resident has to upfront \$20,000 per household. But, if there was a way to access each household approximately \$ 1,000. per year over 20 years, then the project becomes realistic.
- Ideally, if the Borough could obtain a Grant to help with this objective and the Grant covers a portion of the project, then the reality of installing all overhead lines becomes feasible.
- Pipe Dream – perhaps if the Army Corps of Engineers “Back Bay Study” becomes a reality and the project needs electricity to operate, then maybe perhaps, those lines and others feeding the project will go underground! TBC

### **Activity #15 – Increase Beach Front Setbacks for Residential Structures (DELETED)**

#### Description –

- The majority of the Borough’s Repetitive and Severe Repetitive Loss Properties are located Beach Front. The main reason for these homes being compromised is the wave action during severe tidal storms. During Hurricane Sandy some 30 beach front properties lost the first floors of their homes when the waves broke out windows and doors.
- The goal with this Action was to create a greater distance between the residential structure and the bulkhead. Fortunately, CAFRA has in some areas a 25’ distance from bulkhead to the structure. Unfortunately, in some areas of Longport that distance is less.

- Having a no-build zone beach front would solve the RL-SRL issue, but is impractical because of the cost of this precious real estate. Therefore, the best solution is to have beach front properties build to a higher standard and have their homes first floor elevated a minimum of 2' to 3' of freeboard. This "Higher Regulatory Standard" has been addressed and is a part of the Borough's Chapter 99 "Flood Damage Prevention Ordinance."
- Having observed severe tidal/ocean storms within the Borough over some 60 years, the distance between the bulkhead/seawall to the principal structure does not make a difference! It is the height of the first floor and exterior decks that are the determining factor as to whether or not a structure was damaged.
- Living here at the shore, we know that Dunes are transitional and that we should not rely on the dunes as the definitive "wall of protection." With the completion of the dunes, most beach front properties have lost their ocean views. Beach front homeowners are now and several have already done so, elevating their homes so that the first finish floor is above the dune line. That puts the home's first floor some 6' to 10' of freeboard above the BFE. This additional freeboard, based on previous storms, should be more than adequate to keep homes out of harm's way.
- The ironic situation, prior to the installation of dunes, homes were not being elevated after they were damaged by flood events, but are now being elevated so that they can reclaim their lost view. In either case, the elevating of the ocean front homes is a win-win for the home owner and the Borough of Longport.

#### **Activity #17 – Planning-Zoning-Flood- UCC Code Review**

##### Description –

The Borough of Longport in conjunction with the Planning Board, Building Department and the CRS Coordinator annually review the Local, State and Federal Guidelines and Building Codes. These changes are then integrated and/or adopted within the Borough Ordinances

#### **Activity #18 – Protection of Critical Facilities – Feasibility Study/OPEN**

##### Description –

The Borough of Longport has 8 properties, they include;

1. The pumping station 14<sup>th</sup> & Atlantic Ave.
2. Historical Society 2303 Atlantic Ave.
3. The Fire House 2301 Atlantic Ave.
4. Boat House located behind the fire house
5. Borough Hall 2305 Atlantic Ave
6. Community Center 33<sup>rd</sup> & Atlantic Ave
7. Public Works Complex 31<sup>st</sup> & Devon Ave.
8. Well House 31<sup>st</sup> & Winchester Ave

The purpose of a feasibility study is to determine what mitigation actions are needed to the Borough's Critical Facilities in order to make them more resilient. An approximate cost to perform this study is about \$35,000 to \$45,000.

The ultimate objective is to seek a Grant to perform this study!

To Date – no feasibility has been completed.

## **Activity #22 – Public Works – New Complex (Open)**

### Description –

- The Public Works complex is located at 31<sup>st</sup> & Devon Ave. The original structure/garage was built in 1919. A complex of garages have been added onto this existing structure ever since. The problem, all of the garages and surrounding areas within the complex are below the BFE by approx. 3’.
- During Sandy PW lost equipment and one of the wells located on site.
- The goal of this activity is to construct a new complex at or above the 500 year storm.
- Approximate cost to construct \$2,700,000 to \$ 3,500,000.
- This project and the potential mitigation strategies is currently being reviewed by the Borough Engineer and the Borough Grant writer for potential funding sources.
- 

## **Activity #24 – Elevation Certificates Borough Buildings**

### Description –

The Borough of Longport has 8 properties, they include;

1. The pumping station 14<sup>th</sup> & Atlantic Ave.
  2. Historical Society 2303 Atlantic Ave.
  3. The Fire House 2301 Atlantic Ave.
  4. Boat House located behind the fire house
  5. Borough Hall 2305 Atlantic Ave
  6. Community Center 33<sup>rd</sup> & Atlantic Ave
  7. Public Works Complex 31<sup>st</sup> & Devon Ave.
  8. Well House 31<sup>st</sup> & Winchester Ave
- Only the Community Center at 33<sup>rd</sup> and Atlantic Ave has an Elevation Certificate. The Boroughs flood insurance premiums have gone from \$ 42,105.00 in 2016 to \$ 104,395 in 2021.
  - Longport participates in the CRS Program and receives a 25% discount on all Borough Properties. Even with that discount our premiums have almost doubled in 3 years. With the cost of flood insurance skyrocketing it is critical to determine what can we do to mitigate and lower our premiums. The first step is to obtain EC’s for all Borough Buildings.
  - Approximate cost to \$ 5,000.00

## **Activity #25 – Duck Bills Bay Side Storm Drain/Scuppers**

### Description – **New 2021**

- Back Bay Flooding continues to occur. During a severe weather event when the tide is low our storm drains and scuppers cut into the bulkheads allows storm water to flow back into the bay. But during high tides water flows down the street from the scuppers. The storm drains without Duck Bills/ basically a back flow preventer, causes water to back flow into the storm drains and floods our streets.
- Activity #25 addresses the outfall storm drains bay side that do not have duck bills. There are approximately 10 and the projected cost is \$30,000 to complete this project.
- Additionally the scuppers cut into the bulkheads would be patch/covered and or some type of flap be installed that would prevent tidal waters from back flowing into the street.



### **Activity #26 – Replace Bulkheads Street Ends**

#### **Description – New 2021**

- Back Bay Flooding continues to occur with storm water/waves over-topping low height bulkheads. Although Longport has replaced some of these low bulkheads at street ends there are still more that need to be completed.
- Public right-of-way street ends are in the process of being replaced. There are 15 street ends that still need to be completed at the coast of \$75,000 per street end. These bulkhead replacements are on the Borough's Capital Improvement hit list but still several years down the road.
- Capital Improvement funds could be dedicated to replace several per year, but the best option would be via a Mitigation Grant.

### **Activity #27 – Replace Bulkheads Private Properties**

#### **Description – New 2021**

- Back Bay Flooding continues to occur with storm water/waves over-topping low height bulkheads. As bay front homes are purchased, demolished, newer homes are being constructed with new bulkheads at the required minimal heights.
- Although the minimal heights are equal to a 100 year flood, perhaps the Borough should re-examine these heights to make sure they are adequate.
- There are still a hand full of homes that do not meet the minimal requirements. During severe tidal storms water/waves overtop these low bulkheads causing street flooding. Capital Improvement funds/tax dollars could be dedicated to replace several per year, but that would be a hard sell to use tax dollars on/for private property.
- The best option would be a Mitigation Grant partially funding this project and/or Federal Funding available at a low interest. TBC

### **Activity #28 – Storm Drains/Pump Stations**

#### **Description – New 2021**

- Back Bay Flooding continues to occur with storm water backing up into the storm drains and during high tides the storm drains inadequate to properly drain. Longport undertook a "Nuisance Flooding Study" via a Grant from the Coastal Coalition. Longport in conjunction with Stockton University studied 7 areas that typically flood over a two year period.
- That study provided Longport with the data that allow us to predict when these areas will flood, how high the water will be and about how long the water will stay. We know that we cannot prevent these areas from flooding but through the replacement of these old storm drains and adding pump stations, we can lessen the flooding impact.
- Longport recently received a \$1,500,000 mitigation grant. This Grant will be utilized to design and construct a new storm drainage system down the Winchester Ave Corridor one of the areas that typically floods.
- The other six areas need to be addressed! The best option would be Mitigation Grants to fund these projects. TBC

## **Activity #29 – Beach Fill Stabilization**

### **Description – New 2021**

- As part of a State wide project to have Dunes constructed from Sandy Hook to Cape May, Longport's Dunes were completed 3 years ago. All of us that live know that the sand comes and goes. The beach sand continues to travel in a southerly direction. This causes erosion to at the southern end of Longport.
- If the rock groin/jetty at the end of 11<sup>th</sup> Ave were to be constructed some 50 to 100 yards out to sea, this would stop the sand flow. The jetty extension additionally will prevent sand erosion and allow for sand buildup to occur.
- This was done at the southern end of Brigantine and is now a success story.