

9.5: Borough of Buena – Jurisdictional Annex

Summary of Hazards and Actions

Summary of Hazard Ranking and Actions, Borough of Buena			
Hazard	Hazard Ranking	# of Related Actions	Action #s
Atmospheric Hazards			
Extreme Temperatures	M	4	1, 2, 3, 4
Extreme Wind	M	4	1, 2, 3, 4
Hail	L	4	1, 2, 3, 4
Hurricane & Tropical Storm	H	4	1, 2, 3, 4
Lightning	L	4	1, 2, 3, 4
Nor'easter	M	4	1, 2, 3, 4
Tornado	L	4	1, 2, 3, 4
Winter Storm	M	4	1, 2, 3, 4
Hydrologic Hazards			
Coastal Erosion	#N/A		
Sea Level Rise	#N/A		
Dam Failure	#N/A		
Levee Failure	N/A		
Drought	L	4	1, 2, 3, 4
Flood	M	4	1, 2, 3, 4
Tsunami	#N/A		
Storm Surge	#N/A		
Wave Action	#N/A		
Geologic Hazards			
Earthquake	L	4	1, 2, 3, 4
Other Natural Hazards			
Wildfire	M	4	1, 2, 3, 4

Mitigation Strategy for Risk Reduction

Overview of Municipal Mitigation Strategy, Borough of Buena				
Project Number	Project Description	Hazard(s) Addressed	Priority	Goals
1	Install generator for Road Department Building to replace temporary generator currently being utilized. Road Dept trucks needed to maintain passable roadways during severe weather and storms for the public and emergency services. (Action 2 in 2016 Plan)	All	H	2
2	Addition and installation of two, 20 kilo watt generators at pumping stations located within the Borough to prevent an interruption of the sanitation system and water supply to residents and businesses the Borough. (Action 3 in 2016 Plan)	All	H	3
3	Purchase three mobile 20kW Towable Diesel Generators (New)	All	H	2
4	Utilize existing Reverse 911 and Everbridge system through Gloucester County ERC as well as link Borough website to ACOEM. (New)	All	H	2

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

Contact Information

Buena'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: Joseph A. D'Alessandro, III, Title: Municipal Emergency Management Coordinator Department: Emergency Management Address: 208 W. Arctic Avenue, Minotola, NJ 08341 Phone Number: 609-579-2634 E-mail Address: buenaoem@buenaboro.org			Name: Lou Nardone Title: Deputy Municipal Emergency Management Coordinator Department: Emergency Management Address: 108 Irene Avenue, Buena, NJ 08310 Phone Number: 908-812-1890 E-mail Address: chiefnardone@aol.com			
Jurisdictional Assessment Team Members						
Please fill in the contact details for the person filling in this page:						
Name:	Joseph A. D'Alesandro, III					
Title:	Municipal Emergency Management Coordinator					
Community Name:	Borough of Buena					
County:	Atlantic County, NJ					
Email:	buenaoem@buenaboro.org					
Phone:	609-579-2634					
*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	G. David Zappariello	mavordave@buenaboro.org	856-697-9393	06/15/21	Phone Call	Y
Land Use Board Clerk	Lou Nardone	chiefnardone@aol.com	856-697-9393	06/15/21	Phone Call	Y
Engineer	Robert Smith	robert.smith@rve.com	609-645-7110	07/14/21	Phone Call	Y
Attorney	Angela Costigan	amcostigan@costiganllc.com	609-567-4500	06/15/21	Phone Call	Y
Building Code Official	Pam Johnson					
Emergency Manager	Joseph A. D'Alesandro, III	buenaoem@buenaboro.org	609-579-2634	06/01/21	Phone Call	Y
Fiscal/Budget Officer	Cindi Holland					
Floodplain Manager	Nicholas DiCosmo	Nicholas.DiCosmo@rve.com	609-645-7110	08/03/21	Email	Y
Deputy Emergency Manager	Joseph Kaspar	joseph.kaspar@comcast.net	856-697-9393	06/15/21	Phone Call	Y
Public Works Director	William Nimohay	streets-roads@buenaboro.org	856-697-9393	06/15/21	Phone Call	Y
EMS Chief	Rhonda Ciruolo	buenaems@buenaboro.org	856-697-1057	06/15/21	Phone Call	Y

Buena 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 'Y' for any position title that participated											
		Mayor/Supervisor	Land Use	Clerk	Engineer	Attorney	Building Code Official	Emergency Manager	Fiscal/Budget Officer	Floodplain Manager	Dep Emergency Mgr	Public Works Director	EMS Chief
Planning Meeting with Mayor	06/28/21	Y						Y					
Phone Meeting with Sub -Group of JAT	07/07/21	Y						Y			Y		
Phone Meeting with Sub -Group of JAT	07/08/21	Y	Y					Y				Y	Y
Phone Meeting with Engineer	07/22/21				Y			Y					
Meeting with Sub-Group of JAT	07/29/21	Y	Y		Y			Y			Y		Y
Phone Meeting with Public Works	08/04/21							Y				Y	
Email with Engineer	08/04/21				Y			Y					
Phone Meeting with Engineer	08/06/21	Y			Y			Y					
Phone Meeting with Floodplain Manager	08/13/21							Y		Y			
Phone Meeting with Sub-Group of JAT	08/19/21	Y	Y					Y			Y		Y
Meeting with Sub-Group of JAT	08/19/21	Y				Y		Y					
Meeting with Sub-Group of JAT	08/23/21		Y					Y			Y		Y
Phone Meeting with Sub-Group of JAT	09/01/21	Y						Y			Y		Y
Phone Meeting with Sub-Group of JAT	09/03/21	Y						Y				Y	

Governing Body Format

The governing body in Buena is comprised of a Mayor and a Borough Council, with all positions elected at-large on a partisan basis as part of the November general election. A Mayor is elected directly by the voters to a four-year term of office. The Borough Council is comprised of six members elected to serve three-year terms on a staggered basis, with two seats coming up for election each year in a three-year cycle.

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, Buena reviewed and updated its prior feedback to reflect current conditions as of mid-2021.



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: Theodore Peters, Deputy Emergency Management Coordinator

Your Name: Joseph A. D'Alessandro

Title: Municipal Emergency Management Coordinator

Community: Buena Borough

Email and Phone: buenaem@buenaboro.org – 609-579-2634

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

Community	<p>1. Land Uses and Development Trends in Hazard Areas as Reported in the 2016 Plan. 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>1a. Please update your response to reflect conditions in 2021</p>	<p>Regulations/Codes/Ordinances To Protect New Development From Natural Hazards as Reported in the 2016 Plan. 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>2a. Please update your response to reflect conditions in 2021</p>
<p>Buena, Borough of</p>	<p>High-occupancy senior housing in areas that were previously occupied by single family dwellings or farmland.</p> <p>Development of small business or single-family dwellings in once wooded areas.</p>	<p>A new 55+ Community is currently being constructed in a formerly undeveloped residential section.</p> <p>The Borough completed a Master Plan Review in 2019 and has a progressive Land Use Board. The Land Use Board looks to supplement the existing small businesses in town through redevelopment of the Borough's Commerce Center.</p> <p>The Pinelands Commission continues to limit development.</p> <p>Active development of small business or single-family dwellings in once wooded and farmland areas.</p> <p>Repaving of Central Ave to help reduce flooding.</p> <p>Actively working with Atlantic County and the NJ DOT to remediate and mitigate flooding in flood prone areas.</p>	<p>Not at this time.</p>	<p>Not at this time.</p>

National Flood Insurance Program Summary

Buena has participated in FEMA's National Flood Insurance program (NFIP) since 1983.

National Flood Insurance Program Data Borough of Buena	
Total number of policies ¹	1
Insurance in force ²	\$210,000
Total number of losses during NFIP participation	6
Total claims paid during NFIP participation	\$70,305
Non-Mitigated Repetitive Loss Properties	0
Non-Mitigated Severe Repetitive Loss Properties	0

Buena does not participate in the NFIP's Community Rating System.

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

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

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

Name: [Nicholas DiCosmo] Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Community: [Buena Borough] Email and Phone: [nicholas.dicosmo@rve.com 609-645-7110]



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: Edward Walberg. This form should be updated by your floodplain administrator.

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP ¹	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?		
[10-25-1982]	[3-4-1983]	[Nicholas DiCosmo, E.I.T., C.F.M., Remington & Vernick Engineers]	[[X] Yes [] No]	[[X] Yes [] No]	[[X] Yes [] No]		
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
[There are mapped floodplains in Buena Borough; see map attached to email and see this link for your ordinance http://www.ecode360.com/BU0877							
Describe barriers to running an effective NFIP program in the community (if applicable):							
[The lack of awareness of a floodplain is a constraint.]							
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?
[Unknown]	[[] Yes [X] No]	[[X] Yes [] No]	[[] Yes [X] No]	[[X] Yes [] No]	[[] Yes* [X] No * Class _____]	[[] Yes [X] No]	[[] Yes [X] No]
*Describe any outstanding compliance issues (i.e., current violations): None							
[There are currently no compliance issues that are known to Remington & Vernick Engineers, Flood Plain Manager]							
[The current land use ordinance requires residential and non-residential construction to have the lowest floor elevated to the Base Flood Elevation plus 1 foot, which exceeds FEMA minimum requirements]							

¹ Your date of entry into the NFIP can be found at: <http://www.fema.gov/cis/NJ.html> (column "Reg-Emer Date").

Name: [Nicholas DiCosmo] Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: [Buena Borough] Email and Phone: [nicholas.dicosmo@rve.com 609-645-7110]



Provide an explanation of your local floodplain permitting process:

99% of the Floodplain is wetlands so no development is anticipated. Any development that occurs in the Flood Plain is subject to our Flood Damage Prevention Ordinance

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 continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	Does your community intend to continue 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
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 <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes * <input checked="" type="checkbox"/> No			

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

[]

Provide a description of your community assistance and monitoring activities:

When requested by applicants, we assist with their compliance with our Ordinance.

NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?

Yes No

NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?

Yes No

Note: All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.

Critical Facilities in Delineated Hazard Areas

Note that all assets and facilities in the Borough of Buena 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
Borough of Buena											
Buena EMS	525 Southwest Blvd	Ambulance/Rescue Squad	0	0	0	0	0	0	0	0	1
Buena #2 -Minotola - Station 11-2	East Wheat Road	Fire Station	0	0	0	0	0	0	0	0	0
Buena #1 -Landisville - Station 11-1	Arbor Avenue and US Route 40	Fire Station	0	0	0	0	0	0	0	0	0
Buena Borough	616 Central Avenue	Police Station	0	0	0	0	0	0	0	1	0
Municipal Bldg.	616 Central Ave	Public Works	0	0	0	0	0	0	0	0	1
William B. Donini School	Grove Road	School	0	0	0	0	0	0	0	0	0
Cleary Middle School	Central Avenue	School	0	0	0	0	0	0	0	0	0
Notre Dame Regional School	108 church street	School	0	0	0	0	0	0	0	0	0
Buena Board of Education	Pacific Avenue	School	0	0	0	0	0	0	0	0	0
Buena Borough MUA	Plymouth Road	Wastewater Treatment Facility	0	0	0	0	0	0	0	1	0
Buena MUA	421 Plymouth Road	Water Supply Facility	0	0	0	0	0	0	0	1	0
Total			0	0	0	0	0	0	0	3	2

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 Buena		
Quantified Hazard	Annualized Loss	Annual Loss Ratio
Extreme Wind	\$78,000	0.033%
Hurricane and Tropical Storm	\$96,000	0.020%
Lightning	\$700	0.000%
Tornado	\$200	0.000%
Drought*	\$784,000	5.000%
Winter Storm	\$2,100	0.001%
Coastal Erosion	\$0	0.000%
Flooding (Riverine)	\$0	0.000%
Storm Surge (Coastal Flooding)	\$0	0.000%
Earthquake	\$9,000	0.002%

*Derived from crop values

Outreach to the Public and Other Stakeholders

As part of this 2022 Plan Update, Buena 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 Buena included those listed below. No comments were recorded as a result of the outreach activities.

Outreach Activities			
Date of Activity	Type of Activity	Activity Details	Lead Department and/or Staff Title who Undertook Activity
6/28/21	Public Meeting	Discussed Plan at Borough Council meeting & explained to elicit involvement from the residents	OEM Coordinator
7/12/21	Public Meeting	Discussed Plan at Borough Council meeting & explained to elicit involvement from the residents	OEM Coordinator
7/20/21	Website/Social	Info on Plan update on Buena OEM webpage & social media.	OEM Coordinator
8/9/21	Public Meeting	Discussed Plan at Borough Council meeting & explained to elicit involvement from the residents	OEM Coordinator
7/15/21	Third Ward Civic Association	Civic Group Meeting to discuss mitigation efforts and the grants that the city is looking to assist in mitigation.	OEM – Scott Evans Councilman Kaleem Shabazz

Capability Assessment

This section describes the following capabilities of Buena :

- 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. Buena 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	N
Growth Management Ordinance	N
Site Plan Review Requirements	Y
Comprehensive Plan	Y
Capital Improvements Plan	Y
Economic Development Plan	Y
Emergency Response Plan	Y
Post-Disaster Recovery Plan	Y
Post-Disaster Recovery Ordinance	N
Real Estate Disclosure Ordinance	N
Evacuation Plan	Y

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	N
Personnel skilled in GIS and/or HAZUS	N
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

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	N
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

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)?
Low	Low	Low	Low	High

Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.

A collaborative approach when developing the updated hazardous mitigation plan will be the primary method of identifying goals and bridging gaps within the town. Bringing all stakeholders together will allow for mutual conversation to occur.

Plan Integration

It is the intention of Borough 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) – Buena undertook the following plan integration mechanisms over the last planning cycle

During the last planning cycle, the Borough of Buena has completed some of the planned activities. The Borough has focused attention on numerous activities including the review of its master plan to incorporate hazard mitigation elements and to steer growth away from high-risk areas. The Borough is engaging with Atlantic County and the New Jersey Department of Transportation on possible mitigation strategies for flooding issues in five key locations in the municipality. The Borough of Buena, NJDOT and Atlantic County have been working to mitigate the hazards associated with street and neighborhood flooding. The Borough's Department of Public Works cleans and maintains tributaries of brush and overgrowth. This includes inspection and removal of debris from streams, ditches and the stormwater system on a regular schedule. The Borough of Buena updated its Storm Water Control Ordinance in 2021.

The Borough has been educating developers and discouraging development in high hazard areas. There has been participation the in Joint Insurance Fund training to be proactive with hazard mitigation and to continue to enforce and update the codes within the Borough of Buena boundaries

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

While the Borough of Buena will continue to remain cognizant of those activities in the 2016 plan, the governing body finds it necessary to focus on tangible assets that will enhance its mitigation efforts including the acquisition of a generator for the Public Works building (a departmental hub that acts as one of the Borough's command centers during major weather events), the installation of two, 20 kilowatt generators at pumping stations to prevent the interruption of sanitary sewer service and the distribution of potable water, the purchase of mobile generators to provide emergency service to life-saving equipment for the Borough's growing senior citizen population and to begin to migrate to the Everbridge emergency communication system to enhance the residents' access to accurate and timely emergency information.

The Borough of Buena will modify work plans, policies, and procedures to include hazard mitigation concepts and activities. There will be outreach to state agencies, colleges, and universities for assistance with natural hazard mitigation activities. The Borough will increase resilience by limiting the extension of public infrastructure in high hazard areas.

Mitigation Strategy

This subsection sets forth the mitigation strategy for Buena. 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 Buena 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.

Buena 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	Generator installation at the Rescue Squad Building, a critical facility. Costs include electrical wiring, grounding, and securing equipment.	High	All hazards	Emergency Management Coordinator Daniel Caregnato Jr.	X							
2	Install generator for Department of Public Works. DPW trucks needed to maintain passable roadways during severe weather and storms for the public and emergency services.	High	All hazards	Emergency Management Coordinator Daniel Caregnato Jr.		X			Lack of funding has prevented the purchase and installation of a permanent generator. However, until funding can be secured, DPW has a portable generator connection and a generator dedicated for that purpose.	X		The mitigation strategy has not changed since 2016.
3	Addition and installation of 4, 20 kilo watt generators at pumping stations located within the Borough to prevent an interruption of the sanitation system and water supply to residents and businesses the Borough.	High	All hazards	Emergency Management Coordinator Daniel Caregnato Jr.		X			Two permanent 20kW generators have been installed at the two major pumping stations (Stations 1 & 2). Stations 4 & 5 are operating with portable generators until funding for permanent generators is secured.	X		The mitigation strategy has not changed since 2016.

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 Buena 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		
Station Generator for EMS Building	2019	2019	Fully Funded by Donation from a Resident	In the Plan

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 Buena 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.

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.

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Buena Borough</i>
Community action number	<i>1</i>
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>To avoid power outages to the Road Department Building. Disruption of power prevents trucks and emergency vehicles from receiving gas during storms; preventing services such as snow plowing , critical cleanup, and EMS response.</i>
Describing the Action	
Action category	<i>Structure/Infrastructure</i>
Action type	<i>Generator for Road Department Building.</i>
Action description	<i>Install generator for Road Department Building to replace temporary generator currently being utilized. Road Dept trucks needed to maintain passable roadways during severe weather and storms for the public and emergency services.</i>
Existing, future &/or NA	<i>Addresses safety conditions on roadways during severe weather.</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Loss of life and injury due to accidents and emergency services not having passable roadways or access to gas during storms and severe weather.</i>
Cost estimate	<i>\$10,000 for purchase and installation</i>
Cost effectiveness (i.e., benefit/cost)	<i>Generator will keep gas pumps working during outages allowing emergency services to respond to calls.</i>
Technical	<i>Technically feasible.</i>
Political	<i>Emergency Management and Borough Council in support of the project.</i>
Legal	<i>No legal impact will help to ensure a safe community.</i>
Environmental	<i>No negative environmental impact on the community.</i>
Social	<i>No negative social impact on any segment of population.</i>
Administrative capability	<i>Gasoline available for Road Dept and other emergency services.</i>
Local champion	<i>Emergency management and Borough Council.</i>
Other community objectives	<i>To maintain a safe community during times of disasters by protecting the community and allowing safe passage of vehicles for police, emergency services, and the public.</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Emergency Management</i>
Responsible party	<i>Emergency Management Coordinator, Joseph D'Alessandro, III</i>
Potential funding sources	<i>HMGP, FEMA</i>
Time line	<i>starting within the year</i>
Reporting on Progress	
Action progress status	<i>This is a continuing action from the 2016 Plan that has been modified.</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Buena Borough</i>
Community action number	2
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>To prevent an interruption of the sanitation system and water supply to residents and businesses in Buena Borough</i>
Describing the Action	
Action category	<i>Structure/Infrastructure projects</i>
Action type	
Action description	<i>Addition and installation of two, 20 kilo watt generators at pumping stations located within the Borough to prevent an interruption of the sanitation system and water supply to residents and businesses the Borough.</i>
Existing, future &/or NA	<i>Addresses current and future residents and businesses within Buena Borough</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Prevents lose of water supply and sanitation system preventing contamination</i>
Cost estimate	<i>Two, 20 kilo watt generators approximately \$12,000 each plus installation = \$25,000; wiring, bracing, and protecting equipment against weather</i>
Cost effectiveness (i.e., benefit/cost)	<i>Measures to keep sanitation and water supply operating will prevent sickness and contamination in the community</i>
Technical	<i>Technically feasible.</i>
Political	<i>Emergency Management, Municipal Utility Authority and Borough Council in support of the project.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects to the area because the project involves no structural changes.</i>
Social	<i>Will not have a negative affect on the population but will have a positive impact on the residences and businesses within Buena Borough</i>
Administrative capability	<i>MUA and emergency management to oversee installation and operation.</i>
Local champion	<i>The MUA, emergency management, and borough council.</i>
Other community objectives	<i>To keep all services operating during storms and natural disasters. Police, fire, rescue, DPW, and MUA.</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Emergency Management</i>
Responsible party	<i>Emergency Management Coordinator, Joseph D'Alessandro, III</i>
Potential funding sources	<i>HMGP, FEMA, FMA</i>
Time line	<i>Starting within 18-24 months</i>
Reporting on Progress	
Action progress status	<i>This is a modified action that needs to be completed.</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Buena Borough</i>
Community action number	3
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>During past power failures, there has been a need for emergency power to keep critical medical devices functioning in our Senior living centers.</i>
Describing the Action	
Action category	<i>Structure/Infrastructure projects</i>
Action type	<i>Acquisition of Mobile Electric Generators</i>
Action description	<i>Purchase three mobile 20kW Towable Diesel Generators</i>
Existing, future &/or NA	<i>Addresses current and future residents and businesses within Buena Borough</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Mobile generators will be crucial to maintaining the health and well being of those requiring medical devices.</i>
Cost estimate	<i>Three 20kW Towable Diesel Generators costing \$25,000 each</i>
Cost effectiveness (i.e., benefit/cost)	<i>Measures to keep critical medical equipment operating which will prevent the potential loss of life.</i>
Technical	<i>Technically feasible.</i>
Political	<i>Emergency Management and Borough Council in support of the project.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>No adverse environmental effects to the area because the project involves no structural changes.</i>
Social	<i>Will not have a negative affect on the population but will have a positive impact on the residences and businesses within Buena Borough</i>
Administrative capability	<i>DPW and Office Emergency Management to oversee purchase and operation.</i>
Local champion	<i>Emergency Management and Borough Council.</i>
Other community objectives	<i>By keeping all critical medical equipment operating at our Senior centers during storms and natural disasters, this will allow police, fire and EMS to focus on other emergency situations.</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Emergency Management</i>
Responsible party	<i>Emergency Management Coordinator, Joseph D'Alessandro, III</i>
Potential funding sources	<i>HMGP, FEMA, FMA</i>
Time line	<i>Starting within 12 months</i>
Reporting on Progress	
Action progress status	<i>This is a new project.</i>

Action Worksheet	
Your plan name	<i>Atlantic County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Buena Borough</i>
Community action number	<i>4</i>
Assessing the Risk	
Hazard(s) addressed	<i>All hazards</i>
Risk finding	<i>Borough is currently using Nixle, social media to manually disseminate emergency information and instructions.</i>
Describing the Action	
Action category	<i>Public Education</i>
Action type	
Action description	<i>Utilize existing Reverse 911 and Everbridge system through Gloucester County ERC as well as link Borough website to ACOEM.</i>
Existing, future &/or NA	<i>Addresses current and future residents and businesses within Buena Borough</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Potential is there to mitigate loss of life and property. By notifying residents and providing information on a wide basis, we will give them the most opportunities to take appropriate actions. That would lead to a lower likelihood that our First Responders would be put in harms way</i>
Cost estimate	<i>No cost</i>
Cost effectiveness (i.e., benefit/cost)	<i>With no implementation or maintenance costs there is only cost benefit.</i>
Technical	<i>Technically feasible.</i>
Political	<i>Emergency Management and Borough Council in support of the project.</i>
Legal	<i>No apparent legal issues.</i>
Environmental	<i>N/A</i>
Social	<i>Will not have a negative affect on the population but will have a positive impact on the residences and businesses within Buena Borough</i>
Administrative capability	<i>Office of Emergency Management will oversee implementation and operation.</i>
Local champion	<i>Emergency Management and Borough Council.</i>
Other community objectives	<i>Will provide up to date, near real-time, critical information to the residents of the Borough in times of emergency.</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Emergency Management</i>
Responsible party	<i>Emergency Management Coordinator, Joseph D'Alessandro, III</i>
Potential funding sources	<i>N/A</i>
Time line	<i>Complete within 12 months</i>
Reporting on Progress	
Action progress status	<i>This is a new project.</i>