

Maryland Department of  
Natural Resources  
Chesapeake and Coastal  
Grants Gateway FY21

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# THE TOWN OF NORTH BEACH FLOOD AND STORMWATER ACTION PLAN



## SECTION I:

### Choose the Primary Objective:

The Town of North Beach has chosen primary objective #2 - Enhance capacity to understand and effectively plan to address flood risks.

### Proposal Abstract:

The Town of North Beach ("Town") is seeking \$75,000 towards Objective 2 which will focus on enhancing the Town's capacity to understand and effectively plan to address flood risks associated with the effects of climate change and our close proximity to the Chesapeake Bay. The Town has engaged the Environmental Finance Center (EFC) which has provided technical assistance to other municipalities in ways that are strategically aligned with the priorities of Objective 2 of the Maryland Department of Natural Resources' Chesapeake and Coastal Grants Gateway FY21 solicitation.

This funding will provide the Town with the financial assistance necessary to develop a comprehensive flood and stormwater action plan that will identify and characterize both coastal and stormwater flooding problems, assess the vulnerability of important assets to these hazards, identify solutions to mitigate the problems, and outline ways to pay for these solutions. It will also provide a roadmap of implementation for the Town to follow to ensure collaboration among various stakeholders (i.e., NGOs, federal, state and local entities) thereby enhancing staff and residents' capacity to protect the Town and the Chesapeake Bay and adjacent wetlands via infrastructure and/or conservation actions from the impacts of flooding (e.g., damage to structures; polluted stormwater runoff). The Town has a strong desire to take all necessary steps to mitigate flood-related impacts to cultural and natural resources as well as residences, businesses, and infrastructure, but it lacks the technical and financial expertise necessary to undertake this effort in a holistic, cost-effective manner.

## Location

The Town of North Beach is a small town with a population of approximately 2,000 people and would like to preserve that small town feel for its residents, tourists, businesses and more than 100,000 visitors that grace our town by visiting during the short six month tourist season. The greatest asset is the proximity to the Chesapeake Bay, and it is also the greatest weakness. The Town is situated between the Chesapeake Bay to the east and wetlands to the west. Many visitors come multiple times during a season to attend the many events and weekly farmers markets. As the municipality plans for the future, the stewardship and impacts of the Chesapeake Bay and environment is paramount. Due to the rise in sea level, it is imperative that we create a plan that addresses our flooding which impacts our residents and businesses that are uniquely situated to the close proximity of the Bay. There are a few blocks of Residential Low Density (3.5-8 dwelling units/acre) with uses that are primarily residential along Atlantic, Annapolis, and Bay Avenues. Commercial land use, comprised of three acres, is located from 1st Street to 5th Street on the west side of Chesapeake Avenue along the Chesapeake Bay.

There is land designated as Waterfront Renaissance on the east side of Chesapeake Avenue in that same area. Three acres of Neighborhood Commercial district is proposed on both sides of Fifth Street between Erie and Dayton Avenues and in the block between Maryland Route 261 and 7<sup>th</sup> and 8<sup>th</sup> Streets. Fourteen percent of the Town is in Recreational, Conservation and Marsh land. Developing an appropriate balance between development and environment and sensitive area preservation is a challenge however the Town of North Beach has risen to that challenge one project at a time and in a sustainable way. With a Flood and Stormwater plan that addresses our current flooding and stormwater issues we can take cautionary measures and prepare to address our residents, businesses and environment of future impacts.

## Project Need:

Over the past few years, North Beach has experienced heavier and more frequent flooding from stormwater runoff during rain events, as well as from coastal flooding. This repeated flooding from different sources has caused extensive damage to homes, vehicles, businesses, and infrastructure and creates a poor quality of life for residents, tourists, and businesses. It also results in an increasing amount of polluted runoff to the Chesapeake Bay and

adjacent wetlands. Sea level rise and increasing precipitation associated with climate change will only exacerbate current flooding problems in the Town and may necessitate more drastic flood mitigation measures over the long term.

This project will address both stormwater and coastal flooding issues, going beyond the 2016 flood mitigation plan that was more limited in scope and depth, and will incorporate newer data where possible, including the 2018 Maryland Climate Change Commission Sea Level Rise Projections. This project is a priority for the Mayor and the Town Council in response to the resounding voices of the community that flooding needed to be addressed. The Mayor, in his first term, determined that the Town would commit funding to address the causes of flooding. In fact, in the budget approved during the Mayor's first term, \$295,000 was approved for stormwater/flood-related improvements (e.g., additional stormwater pumps, pump station upgrades, outfall clean out, etc.). The Town also will receive \$20,000 from Maryland State Highway Administration as a fee in lieu for the Route 261 road elevation project that addresses damage when the road suffers from coastal flooding during storm events.

In addition, Mayor Benton established and launched an aggressive and active stormwater and flood advisory committee, comprised of Town staff and residents, to work together to address flooding and to help sustain mitigation efforts over time (see current efforts of the committee at <https://www.northbeachmd.org/stormwater-and-flood-mitigation-advisory-committee>). With the EFC's assistance, the Town of North Beach will be well situated to develop and implement a comprehensive flood and stormwater action plan that will ensure the future sustainability of the Town, as well as the Chesapeake Bay.

#### **Flooding Hazards to be Addressed \***

Select the hazard(s) to be addressed by your proposed project.

- coastal (storm surge, shoreline erosion, sea level rise, nuisance flooding, etc)
- stormwater
- riparian

## Climate Related Impacts

North Beach, like many communities in the Chesapeake Bay watershed faces serious environmental and climate related flooding challenges, but the Town lacks the financial resources and technical expertise/capacity needed to identify mitigation measures in a more proactive, holistic manner. A flood and stormwater action plan that is based on the latest sea level rise projections and that adopts an integrated, watershed-scale approach will provide us with a roadmap for more effective identification, prioritization and implementation of flood mitigation measures. With a plan for financing these measures included in the project as well, the Town will be better equipped to act quickly, thereby protecting the environment, enhancing the future sustainability of the Town, and improving our quality of life.

## Project Goals and Outcomes

The EFC, along with the Town, will develop a flood and stormwater action plan. Working alongside the EFC will be the newly formed Stormwater and Flood Advisory Committee (SFMAC) and the Mayor, Town Council and other Town staff to develop and implement action items with the following goals and outcomes:

**Goal 1:** Community outreach and engagement to educate the public such that they are invested in and supportive of necessary stormwater and flood mitigation measures on public and private lands.

**Outcome 1:** Create a platform of community engagement activities, events and public forums that convene stakeholders to discuss flooding, stormwater and water quality issues and develop a cohesive framework to collaborate and work together towards a shared goal.

**Goal 2:** Incorporate relevant components of existing flood and stormwater action plans (i.e., 2016 DRAFT Town of North Beach Flood Mitigation Plan and forthcoming Nuisance Flood Plan) into an updated, integrated flood and stormwater action plan.

**Outcome 2:** Development of a flood and stormwater action plan that builds on existing plans but also incorporates updated data (e.g. 2018 sea level rise data), stormwater impacts, and a more detailed risk assessment to guide the Town's decisions in a more effective and coordinated way.

**Goal 3:** Characterize and better understand current and predicted coastal and stormwater flooding impacts in the Town, including assessing vulnerability of major assets, to be able to plan for and prioritize mitigation actions.

**Outcome 3:** Chapters of the plan that identify and characterize stormwater problems, coastal flood hazards, important assets, risks to major assets, and short-, medium-, and long-term strategies to mitigate risks.

**Goal 4:** Develop a defined scope, timeline, and budget needs for different action levels and SLR scenarios, as well as an integrated financing strategy to support implementation.

**Outcome 4:** Assess the gaps between existing plans, policies, and program activities alongside potential mitigation strategies and needs, develop cost and revenue scenarios, and outline supplemental funding opportunities so that priority actions can be selected and implemented upon plan completion.

#### **Project Context:**

The Town of North Beach (“Town”) is seeking \$75,000 towards Objective 2 which will focus on enhancing the Town’s capacity to understand and effectively plan to address flood risks associated with the effects of climate change and our close proximity to the Chesapeake Bay.

With the goal of Objective 2, it focuses on enhancing the Town’s capacity to understand and effectively plan to address flood risks associated with the effects of climate change, North Beach has engaged the Environmental Finance Center (EFC). Their role will be to provide technical assistance as they have completed for other municipalities in ways that are strategically aligned with the priorities of that have led to the development of comprehensive flood and stormwater action related plans. The Town’s plan will identify and characterize both coastal and stormwater flooding problems, assess the vulnerability of important assets to these hazards, identify solutions to mitigate the problems, and outline ways to pay for these solutions. It will also provide a roadmap the Town can follow to ensure collaboration among various stakeholders (i.e., NGOs, federal, state and local entities) thereby enhancing staff and residents’ capacity to protect the Town and the Chesapeake Bay and adjacent wetlands via infrastructure and/or conservation actions from the impacts of flooding (e.g., damage to structures; polluted stormwater runoff).

The Town has a strong desire to take all necessary steps to mitigate flood-related impacts to cultural and natural resources, as well as residences, businesses, and infrastructure, but it lacks the technical and financial expertise necessary to undertake this effort in a holistic, cost-effective manner. With the EFC's assistance, North Beach will be well situated to develop and implement a comprehensive flood and stormwater action plan that will ensure the future sustainability of the Town as well as the Chesapeake Bay.

### **Tools and Resources:**

For this project, the EFC will lead the process of completing a Comprehensive Flooding and Stormwater Action Plan with a financing feasibility component. This plan will tailor the framework of the 2013 Stormwater and Flood Management Financing Study in Oxford, Maryland to the unique needs and community dynamics of North Beach, as well as consider advances in science, policy, practice and financing options. The resulting Action Plan will outline options for addressing risks and help the Town prioritize, plan, and act on their preferred strategies to reduce flood impacts on residents, businesses, and infrastructure. This project will build on existing studies and documents, including the 2016 Town of North Beach Flood Mitigation Plan and the forthcoming nuisance flood plan (due by October 1, 2020). The timing of this work is opportune, as it will position the Town to incorporate Action Plan strategies into their next Comprehensive Plan update and into Calvert County's next Hazard Mitigation Plan update.

The EFC will help the Town/committee develop long-term financing strategies including recommended policies and programs that will support the implementation of capital improvements and restoration projects to address impacts to the community from stormwater and tidal flooding, as well as strategies for operations and maintenance to sustain on-the-ground practices. EFC's responsibilities will include:

- support for community engagement that leverages and strengthens interest among residents to help achieve increased community awareness and commitment to stormwater and coastal flooding solutions,
- asset and hazard identification and mapping,
- project and data management, including engineering data collection and analysis and coordination of project partners, and

- development of implementation and financing recommendations that include suggested practices, policies, and financing mechanisms for moving a community-supported, holistic stormwater and flood management strategy forward in the Town of North Beach.

### **Projects Co-Benefits:**

In addition, the EFC will support the planning of and participate in meetings and workshops associated with the project, to include:

- routine conference calls to plan, check-in, and update on progress with deliverables throughout the agreement period.
- other in-person or phone meetings, as needed.
- in-person attendance and participation at stakeholder engagement events/workshops.
- coordination of project partners to identify potential attendees for workshops and promote participation in outreach activities.
- presentation to Town Council, Calvert County, etc. as needed.

### **Partner Roles:**

#### **1. Town of North Beach**

The flood and stormwater action plan will involve departments within the Town of North Beach (including three volunteer committees) that will work in partnership with the Environmental Finance Center (EFC). The role and responsibilities include the following:

- North Beach Mayor and Town Council - governing body to oversee all the Town activities.
- DPW Staff - Our Department of Public Works demonstrates daily to keep the Town's public appearance clean with trash, daily maintenance of systems for the residents, testing of water, building maintenance and stormwater issues that impact the residents. As DPW is highly knowledgeable about the Town's stormwater system and its issues, they will play a large role in the planning process.
- Code Enforcement - Our Code Enforcement department will be essential to assist with identifying problems and opportunities with compliance to codes that relate to stormwater, trash, and prevention of code violations.

Fund Development - Our Development specialist works on ways to leverage funding and writes applications towards funding opportunities for priorities within the town.

- Eco-Tourism Director - Our Eco-Tourism Director creates programs, forums, nature walks and talks regarding our natural habitat, as well as educational tools and workshops to engage the public in environmental activities. They can help incorporate community engagement into flood mitigation projects and highlight projects that can yield multiple benefits to the Town and the environment, such as living shorelines and rain gardens.
- Marketing Director - Our Marketing department will advertise all public forums, send out e-blasts, develop outreach materials and flyers of information to the community and inform the public of community engagement activities throughout our planning process.
- Flood and Stormwater Committee - The Committee was formed to assess flooding, create awareness, develop a plan for prevention and correction of flood/stormwater issues in the Town and assist with the implementation of any plans that will improve the Town's resistance to flooding, thus they will have a central role in the project.
- Economic Development Committee - They were established to assist the business community with resources, possible funding and strategies to strengthen the businesses in North Beach. Efforts are also underway to assess having an Art and Entertainment District in the Town. This will assist the town to create year-round activities to help the businesses thrive not only in the summer but throughout the year. This Committee will be important to engage throughout the flood planning process because they are both impacted by flooding and can help implement solutions to flooding.
- Environmental Committee - Currently underway with the Sustainable Maryland recertification with EFC to update their three-year workplan with the past projects undertaken by the Town of North Beach and create a new plan to show the future resiliency in the Town. They will be closely engaged throughout the process.

## 2. Environmental Finance Center (EFC)

The University of Maryland Environmental Finance Center (EFC) will be a sub-awardee for this project and lead the process of completing a Flood and Stormwater Action Plan with a financing feasibility component for the Town of North Beach. They will work collaboratively with the Town, the Flood and

Stormwater Committee, and the Department of Public Works to identify implementation strategies that reduce the Town's vulnerability to flood events, limit stormwater pollution, protect water quality in coastal and inland waters, and foster an engaged stakeholder base. They will lead the development of long-term financing strategies, including recommended policies and programs that will support the implementation of capital improvements and restoration projects to address impacts to the community from stormwater and tidal flooding, as well as strategies for operations and maintenance to sustain on-the-ground practices. EFC will partner with an engineering/consulting firm for assistance with technical aspects of the project. EFC's responsibilities will include:

- support for community engagement that leverages and strengthens interest among residents to help achieve increased community awareness and commitment to stormwater and coastal flooding solutions,
- asset and hazard identification and mapping,
- project and data management, including engineering data collection and analysis and coordination of project partners, and
- development of implementation and financing recommendations that include suggested practices, policies, and financing mechanisms for moving a community-supported, holistic stormwater and flood management strategy forward in the Town of North Beach.

### **3. Calvert County Government**

Calvert County will be engaged in the plan development process as appropriate, especially if they will need to play a role in future implementation of any mitigation actions/strategies.

### **4. State of Maryland Planning Department (Planning)**

Planning has staff that specifically engages with communities based on location and level of technical assistance required. The Planning staff representative has joined the SFMAC to provide state level assistance in any way requested by the committee and town. Planning has knowledge in stormwater infrastructure design, GIS and geographical data analysis, and a long standing and effective history helping implement Comprehensive Plans, and all referenced documentation. Planning desires to help jurisdictions achieve their future planning goals for the betterment of Maryland and all Marylanders as a whole.

## Outreach:

Our outreach efforts will include the following:

- The EFC will assist North Beach to identify key stakeholders that should be included throughout the plan development process and that can help with future outreach and education efforts, including community members, community-based organizations, local and regional elected leaders, and other traditional and nontraditional partners
- Help recruit stakeholders and secure commitment of core partners beyond the Flood and Stormwater Committee to serve on a project team
- Create appropriate opportunities for public input on flood problem areas, important assets, and priority investment needs
- Contribute to the development of outreach materials and workshop/input activities as appropriate
- Review and incorporate previous public input from 2016 plan, etc.
- Facilitate a series of project team meetings and public workshops
- Help develop a flood risk communication strategy for the Town and visitors
- Disseminate findings to a broader audience (neighboring towns, Calvert County, Southern Maryland, etc), including but not limited to a Sustainable Maryland convening of southern Maryland municipalities
- Engage the Town Eco - Tourism Director to facilitate educational workshops that relate to the existing planning components and product that will assist in sustainable efforts that coincide with planning efforts.

## Program Change

The flood and stormwater action plan will most likely include recommendations for the Town to make changes to its zoning, codes, and ordinances as well as changes to its operating procedures, design guidelines, infrastructure maintenance schedules, capital improvement plan and asset management processes, etc. Longer-term coastal flooding and sea level rise-related strategies may need to be incorporated into the Town's or County's Comprehensive Plans.

Some examples of the types of policy recommendations that may be relevant to North Beach and included in the plan, depending on what fits best with the Town's needs, can be seen in the report titled "Mainstreaming Sea Level Rise

Preparedness in Local Planning and Policy on Maryland's Eastern Shore,” available at <http://www.eslc.org/wp-content/uploads/docs/coastal-resilience/regional-sea-level-rise-study-2019.pdf>. Financing strategies, including the potential for new revenue streams from fees or taxes, will also be laid out in the plan. These policy, program, planning, and budgetary mitigation strategies will have taken feasibility of passage or implementation into consideration during development, but a range of options will be still explored and described in the plan. It is expected that the Town will prioritize and select from these options as they move forward with implementation of the plan.

**Start Date:**

07.07.2020

**Key Milestones:**

Overall Anticipated Timeline and Milestones include the following:

**Summer 2020**

Project kick off, data collection, plan for stakeholder engagement, plan and deliver initial public outreach event, support the development and promotion of outreach materials, key stakeholder and partner interviews

**Fall 2020**

Flood mapping, asset mapping, public input events

**Winter 2020**

Asset vulnerability/risk assessment, begin drafting Action Plan, develop needs/costs and financing strategy options, vet drafts with project team and then with other Town staff and key stakeholders, public input event (draft costs/financing strategy options)

**Spring 2021**

Incorporate community feedback into financing strategy, complete draft Action Plan and finalize financing strategy options, plan and deliver public update, present to Town government as appropriate

**End Date:**

06.20.2021

**Project Sustainability after Grant Term:**

The Action Plan will enhance applications for funding opportunities for future resources and therefore assist the Town with furthering its sustainability. It will give the Town of North Beach a strategic direction to follow with a suite of actions, timelines, and potential funding mechanisms to support their work. Many projects to be implemented will show best practices specific to the need of North Beach. As the action plan is implemented, our partner, EFC will have assess gaps between current capacity and resources along with future needs to accomplish the desired mitigation strategies. Each of those identified strategies will give the Town a clear understanding of what they will need to do to achieve their flood mitigation objectives.

Having this project and partnership with EFC is designed to generate community support of restorative solutions to ensure long-term sustainability and enactment of chosen action items. A huge part of the plan will also include a roadmap of implementation and funding sources outlined to pay for those activities. Planning efforts will be made carefully and discussed along the way with stakeholders, residents and funders to build local ownership of the plan. Having these discussions early creates a better roadmap for success, and plan implementation will be critical to ensure sustainability for the future of the Town of North Beach. EFC has chosen to create a partnership that will be longstanding and provide future expertise in the area of stormwater that is beyond the current staff capabilities.

**Success Metrics:**

Together, the Town of North Beach and EFC will establish the objectives clearly as their first step in creating and developing the flood and stormwater action plan. The Town does not want the plan to sit on the shelf but be a plan of action items that can be implemented by staff to achieve the goal of reducing stormwater and coastal flooding problems in the Town. To achieve the primary goal along with our objectives we have attached outcomes along with each of them. Each objective will be clearly defined as to what is to be achieved by policies, procedures, rules, strategies, community engagement, funding, responsible party and programs. We want our plan to ensure that every activity undertaken contributes to the achievement of all the Town's and partners objectives.

We plan to create awareness of the plan, both during and after its development, through our marketing department who sends out communication through our website, text messages and e-blasts to over 2,000 residents and visitors to the Town of North Beach. Over the past year, Mayor Benton has increased communication which has resulted in a larger attendance (approximately 50 % increase) at each of our Town Council and Work Session meetings. Therefore, we feel communication during our planning process will be crucial to inform, educate, and engage residents impacted by flooding in the Town. Having cultural activities to increase awareness about flood mitigation needs will also assist the efforts in the Town of North Beach. Our Eco-Tourism Director is underway with a campaign to seek funding for rain barrels for residents that will assist with reducing stormwater runoff on private properties while providing an educational opportunity for residents to learn about stormwater.

Several outcomes will serve as indicators of the project's success. The primary outcome will be completion of the comprehensive flood and stormwater action plan and its approval by the Town. The other measures of success can be grouped into categories including community awareness and engagement, flood risk reduction, planning/policy changes, partner relationships, and financing. Water quality benefits and other co-benefits such as carbon sequestration will be calculated and tracked as projects are implemented in the future. Community engagement indicators can be measured during the project, but most other progress will be enabled by the completion, adoption, and implementation of the plan.

Therefore, community engagement indicators will include public attendance at meetings and events, adequate representation of the Town's stakeholder groups in prioritization and strategy development decisions, changes in public awareness of the Town's current and future flood risks, and the level of public support for implementation and financing of mitigation actions.

Future success metrics will include: adoption of recommendations into Town planning processes, including codes and ordinances and capital improvement plan ranking criteria; adjustments to operations and maintenance procedures; staff training/capacity building; reentry into the FEMA Community Rating System (CRS) with timeline for improving the Town's CRS score; and programmatic and

financial commitments from other entities to address issues in partnership with the Town. In addition, other results that will indicate success are: passage of financing mechanism(s) that will be dedicated to stormwater and coastal flood mitigation efforts; acquisition of grants and loans; NFIP premium savings for policyholders; and of course, actual reduction of flood damage in future events.

Our partner, EFC will be essential in facilitating meaningful community engagement throughout the entire process which will guide us in measuring success, documenting our progress and see quantifiable results throughout the project. Having the community's input to identify problem areas, prioritize assets for protection, and design strategies to mitigate problems will increase their support for investing in solutions in the Town. The action planning framework that will result from this project will enhance and enable the project team of EFC and North Beach as well as its residents and business community to take steps forward to improve local water quality while reducing the impact of flooding in the Town.

## **SECTION #II** (must align with Primary Objective in Section 1)

### **Choose the Primary Project Outcome:**

#2 Enhance capacity to understand and effectively plan to address flood risks associated with a changing climate.

### **Task Name:**

Partner with Environmental Finance Center (EFC) to assist with capacity building, facilitation and oversight of a Flood and Stormwater master plan

### **Task Description:**

The University of Maryland Environmental Finance Center (EFC) will be a sub-awardee/partner organization for this project. They will work collaboratively with the Town of North Beach (Town), the Flood and Stormwater Committee, and the Department of Public Works to identify implementation strategies that reduce the Town's vulnerability to flood events, limit stormwater pollution, protect water quality in coastal and inland waters, and foster an engaged stakeholder base. They will lead the development of long-term financing strategies, including recommended policies and programs that will support the implementation of capital improvements and restoration projects to address impacts to the community from stormwater and tidal flooding, as well as strategies for operations and maintenance to sustain on-the-ground practices. EFC will partner with an engineering/consulting firm for assistance with technical aspects of the project.

EFC's responsibilities and task description for oversight of the Flood and Stormwater Action Plan will include:

- support for community engagement that leverages and strengthens interest among residents to help achieve increased community awareness and commitment to stormwater and coastal flooding solutions,
- asset and hazard identification and mapping,
- project and data management, including engineering data collection and analysis and coordination of project partners, and
- development of implementation and financing recommendations that include suggested practices, policies, and financing mechanisms for moving a community-supported, holistic stormwater and flood management strategy forward in the Town of North Beach.

## Task Deliverables

Scope of Work and Deliverables are outlined as follows:

The EFC will lead the process of completing a Stormwater and Flood Mitigation Plan with a financing feasibility component for the Town of North Beach. This effort will involve technical and outreach components as follows:

- Identify and characterize stormwater and coastal flooding issues
- Characterize and map stormwater and coastal flood hazards (past and projected)
- Collect data on stormwater flood problems from the Town and from stakeholders to generate lists and spatial data
- Update the 2016 assessment of coastal flood hazards for current 100-year and 500-year floodplains and future SLR scenarios using 2018 Maryland Climate Change Commission Sea Level Rise Projections and, if possible, future precipitation projections
- Generate lists, spatial data, and maps showing both types of flooding problems
- Flag certain locations where stormwater runoff and coastal flooding are interacting and/or further study or modeling is needed
- Analyze upstream watershed for its contributions to runoff in the Town
- Identify major assets and assess vulnerability of these assets to hazards
- Identify critical assets (including natural and cultural) that may be threatened by the stormwater and coastal flooding hazards elucidated above
- Assess vulnerability of these assets using the above flooding data, at the level of detail desired by the Town
- Determine through a consensus-based process with the Committee, project team, and community stakeholders which of the identified risks are unacceptable / which assets are most critical to protect
- Summarize public input in a way that can help inform investment decision making

Highlight other risks that the Town or residents may face such as future costs, liability or legal issues, increasing premiums or loss of insurance, bond rating downgrades, etc.

- Community outreach, engagement, and education
- Help North Beach identify key stakeholders that should be included throughout the plan development process and that can help with future outreach

and education efforts, including community members, community-based organizations, local and regional elected leaders, and other traditional and nontraditional partners

- Help recruit stakeholders and secure commitment of core partners beyond the Flood Committee to serve on a project team
- Create appropriate opportunities for public input on flood problem areas, important assets, and priority investment needs
- Contribute to the development of outreach materials and workshop/input activities as appropriate
- Review and incorporate previous public input from 2016 plan, etc.
- Facilitate a series of project team meetings and public workshops
- Help develop a flood risk communication strategy for the Town and visitors
- Disseminate findings to a broader audience (neighboring towns, Calvert County, Southern Maryland, etc), including but not limited to a Sustainable Maryland convening of southern Maryland municipalities
- Technical analysis of infrastructure and funding elements
- Gather relevant information regarding existing efforts, capacity, and resources.
- Assess the scale of any gaps in capacity or resources to meet existing and future needs.
- Develop other flood mitigation recommendations beyond 2016 plan, including policy/program changes
- Include possible interventions in the upstream watershed that can reduce the volume of water flowing into the Town
- Work with local staff and stakeholders to estimate program costs and identify potential revenue streams of interest and implementation paths forward.
- Cost scenarios for different levels of mitigation/adaptation.
- Develop an integrated financing strategy for program implementation that considers cost reducing approaches, revenue generating mechanisms, and engagement of the private sector.
- Assess the economic impact of nuisance flooding, to the extent that data is readily available

In addition, the EFC will support the planning of and participate in meetings and workshops associated with the project, to include:

- Routine conference calls to plan, check-in, and update on progress with deliverables throughout the agreement period.

- Other in-person or phone meetings, as needed.
- In-person attendance and participation at stakeholder engagement events/workshops.
- Coordination of project partners to identify potential attendees for workshops and promote participation in outreach activities.
- Presentation to Town Council, Calvert County, etc. as needed.

#### Overall Anticipated Timeline

##### Summer 2020 - Kick-off July 7, 2020

Project kick off, data collection, plan for stakeholder engagement, plan and deliver initial public outreach event, support the development and promotion of outreach materials, key stakeholder and partner interviews.

##### Fall 2020

Flood mapping, asset mapping, public input events

##### Winter 2020

Asset vulnerability/risk assessment, begin drafting Action Plan, develop needs/costs and financing strategy options, vet drafts with project team and then with other City staff and key stakeholders, public input event (draft costs/financing strategy options).

##### Spring/Summer 2021 conclusion/report June 21, 2021

Incorporate community feedback into financing strategy, complete draft Action Plan and finalize financing strategy options, plan and deliver public update, present to City government as appropriate

**Section #III. BUDGET**

**Request Amount: \$75,000.00**

EFC - \$70,000.00

Town of North Beach Engineer/Engineering Firm \$5,000.00

**Total Project Amount: \$75,000.00**

See attached for detailed financial spreadsheet