Winthrop, MA

Community Resiliency Building & Listening Session

Town of Winthrop
Municipal Vulnerability Preparedness Plan

May 8, 2018 | 7:00pm

EB Newton Community Center, 45 Pauline Street | Lyceum Room

The Listening Session will include a brief presentation summarizing the Community Resiliency Building Workshop held on April 6, 2018 and update attendees about the information gathered from this event. A question and answer session will also be included to gather information from the public regarding your feedback on vulnerabilities and strengths in Winthrop!

Hope to see you there! For more information, please contact the Assistant Town Manager, Joe Domelowicz at jdomelowicz@town.winthrop.ma.us

WOODARD & CURRAN

Community Resiliency Building & Listening Session

May 8, 2018

SIGN IN SHEET

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Winthrop, MA

Community Resiliency Building | Listening Session

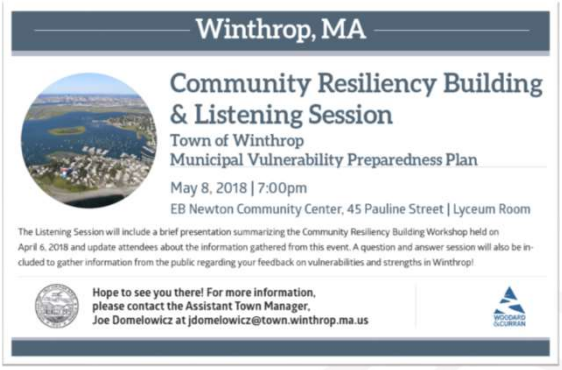
May 8, 2018

WOODARD &CURRAN

Agenda

- Overview of Community Resiliency Building Workshop & Summary of Findings
- Question & Answer

Note: *Please utilize the notecards available to share any concerns or ideas that you have and would like to make sure are documented as a part of this process. Thank you!*



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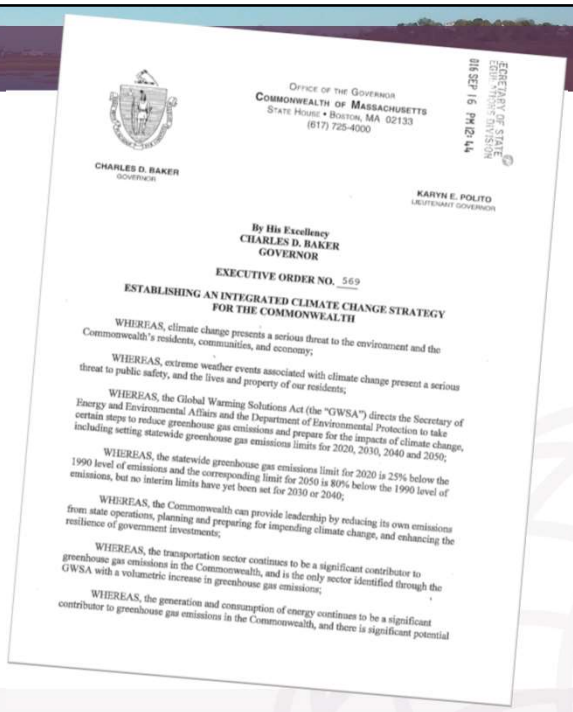
WOODARD &CURRAN

Executive Order 569

- In September 2016, Governor Charlie Baker signed Executive Order 569, instructing state government to **provide assistance to cities and towns to complete climate change vulnerability assessments and resiliency planning**.



OFFICE OF THE GOVERNOR
COMMONWEALTH OF MASSACHUSETTS
STATE HOUSE • BOSTON, MA 02133
(617) 725-4000

CHARLES D. BAKER
GOVERNOR

KARYN E. POLITO
LIEUTENANT GOVERNOR

SECRETARY OF STATE
CORPORATIONS DIVISION
2016 SEP 19 PM 12:14

By His Excellency
CHARLES D. BAKER
GOVERNOR

EXECUTIVE ORDER NO. 569

ESTABLISHING AN INTEGRATED CLIMATE CHANGE STRATEGY FOR THE COMMONWEALTH

WHEREAS, climate change presents a serious threat to the environment and the Commonwealth's residents, communities, and economy;

WHEREAS, extreme weather events associated with climate change present a serious threat to public safety, and the lives and property of our residents;

WHEREAS, the Global Warming Solutions Act (the "GWSA") directs the Secretary of Energy and Environmental Affairs and the Department of Environmental Protection to take certain steps to reduce greenhouse gas emissions and prepare for the impacts of climate change, including setting statewide greenhouse gas emissions limits for 2020, 2030, 2040 and 2050;

WHEREAS, the statewide greenhouse gas emissions limit for 2020 is 25% below the 1990 level of emissions and the corresponding limit for 2050 is 80% below the 1990 level of emissions, but no interim limits have yet been set for 2030 or 2040;

WHEREAS, the Commonwealth can provide leadership by reducing its own emissions from state operations, planning and preparing for impending climate change, and enhancing the resilience of government investments;

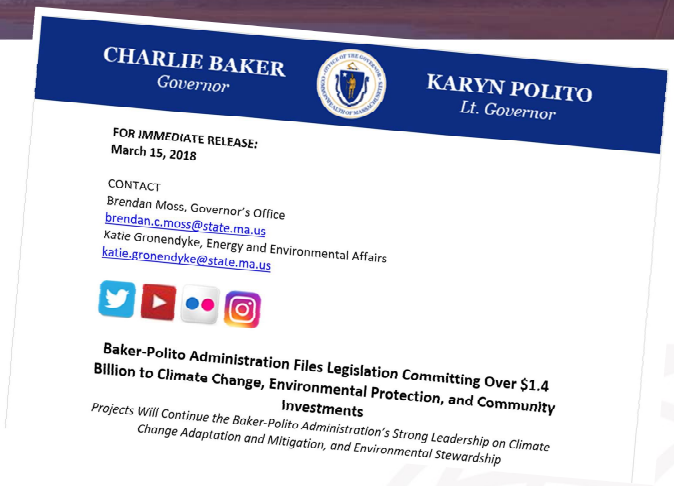
WHEREAS, the transportation sector continues to be a significant contributor to greenhouse gas emissions in the Commonwealth, and is the only sector identified through the GWSA with a volumetric increase in greenhouse gas emissions;

WHEREAS, the generation and consumption of energy continues to be a significant contributor to greenhouse gas emissions in the Commonwealth, and there is significant potential

WOODARD & CURRAN

March 2018 Legislation

- Baker/Polito filed $1.4B legislation to authorize investments for safeguarding municipalities from the impacts of climate change, protecting environmental resources, and investing in communities.
- Hearing on the Bond Bill held on April 3rd to see if there is enough money available.



CHARLIE BAKER
Governor

KARYN POLITO
Lt. Governor

FOR IMMEDIATE RELEASE:
March 15, 2018

CONTACT
Brendan Moss, Governor's Office
brendan.c.moss@state.ma.us
Katie Gronendyke, Energy and Environmental Affairs
katie.gronendyke@state.ma.us

Baker-Polito Administration Files Legislation Committing Over $1.4 Billion to Climate Change, Environmental Protection, and Community Investments

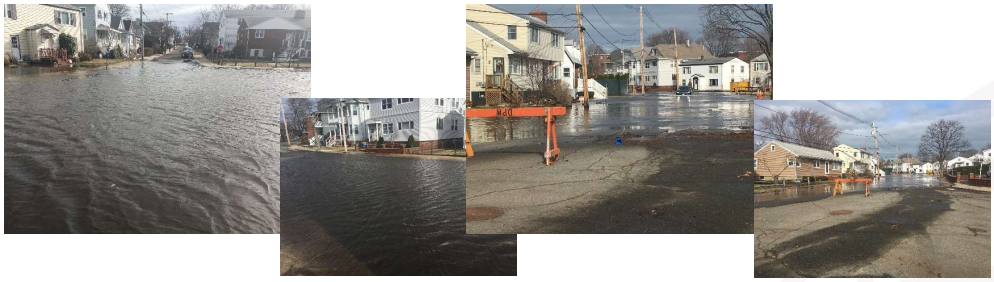
Projects Will Continue the Baker-Polito Administration's Strong Leadership on Climate Change Adaptation and Mitigation, and Environmental Stewardship

Municipal Vulnerability Preparedness (MVP) Grant Program

- The MVP grant program provides support for cities and towns in Massachusetts to begin or continue the process of planning for resiliency.
- The state awards communities with funding to complete vulnerability assessments and develop action-oriented resiliency plans.

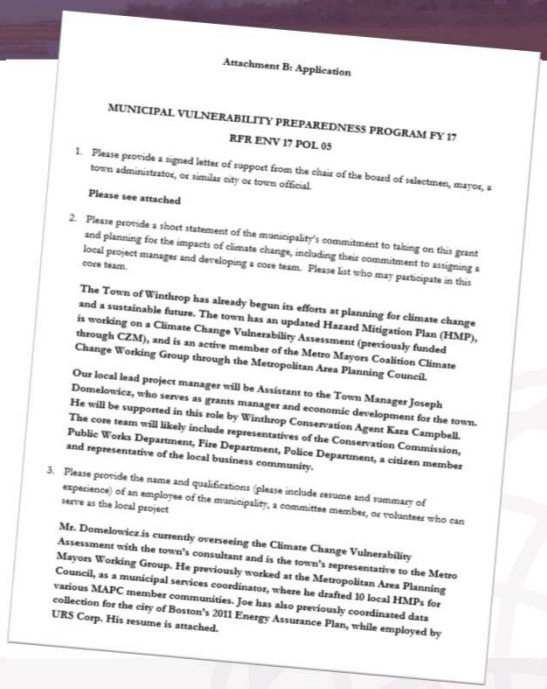
Municipal Vulnerability Preparedness (MVP) Grant Program

- The program helps communities achieve the following objectives:
  - Define extreme weather and natural and climate related hazards
  - Identify existing and future vulnerabilities and strengths
  - Develop and prioritize actions for the community
  - Identify opportunities to take action to reduce risk and build resilience



MVP Planning Grant Program

- Winthrop proactively applied for the 2017 round
- Was awarded $15,000 grant
- Partnered with MVP Technical Services provider Woodard & Curran
- Resulted in the Community Resiliency Building Workshop, Listening Session & Summary of Findings



Attachment B: Application

MUNICIPAL VULNERABILITY PREPAREDNESS PROGRAM FY 17
RFR ENV 17 POL 05

1. Please provide a signed letter of support from the chair of the board of selectmen, mayor, a town administrator, or similar city or town official.

   Please see attached

2. Please provide a short statement of the municipality's commitment to taking on this grant and planning for the impacts of climate change, including their commitment to assigning a local project manager and developing a core team. Please list who may participate in this core team.

   The Town of Winthrop has already begun its efforts at planning for climate change and a sustainable future. The town has an updated Hazard Mitigation Plan (HMP), is working on a Climate Change Vulnerability Assessment (previously funded through CZM), and is an active member of the Metro Mayors Coalition Climate Change Working Group through the Metropolitan Area Planning Council.

   Our local lead project manager will be Assistant to the Town Manager Joseph Domelowicz, who serves as grants manager and economic development for the town. He will be supported in this role by Winthrop Conservation Agent Kara Campbell. The core team will likely include representatives of the Conservation Commission, Public Works Department, Fire Department, Police Department, a citizen member and representative of the local business community.

3. Please provide the name and qualifications (please include resume and summary of experience) of an employee of the municipality, a committee member, or volunteer who can serve as the local project

   Mr. Domelowicz is currently overseeing the Climate Change Vulnerability Assessment with the town's consultant and is the town's representative to the Metro Mayors Working Group. He previously worked at the Metropolitan Area Planning Council, as a municipal services coordinator, where he drafted 10 local HMPs for various MAPC member communities. Joe has also previously coordinated data collection for the city of Boston's 2011 Energy Assurance Plan, while employed by URS Corp. His resume is attached.

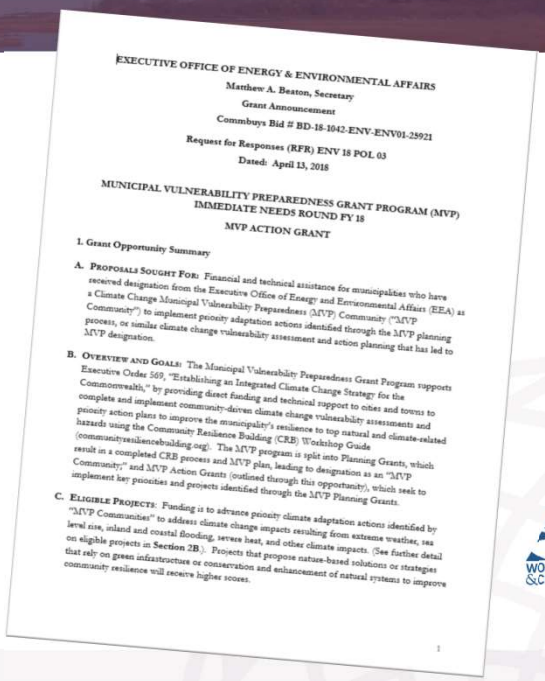
Winthrop, MA

Municipal Vulnerability Preparedness (MVP) Grant Program

- Communities who complete the MVP program become certified as an MVP community and are eligible for potential follow-up grant funding and other opportunities.

MVP Action Grant Program

- Current MVP Action Grant Program open!
- Applications are Due May 18, 2018
- Winthrop is eligible because of MVP Planning participation
- Can apply for up to $400,000
- Projects that propose nature-based solutions or green infrastructure will receive higher scores
- Eligible projects: detailed vulnerability and risk assessment, public education and communication, local bylaws, redesign and retrofit, nature based storm damage protection, nature based infrastructure, eco restoration



EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
Matthew A. Beaton, Secretary
Grant Announcement
Commbuys Bid # BD-18-1042-ENV-ENV01-25921
Request for Responses (RFR) ENV 18 POL 03
Dated: April 13, 2018

MUNICIPAL VULNERABILITY PREPAREDNESS GRANT PROGRAM (MVP)
IMMEDIATE NEEDS ROUND FY 18
MVP ACTION GRANT

1. Grant Opportunity Summary

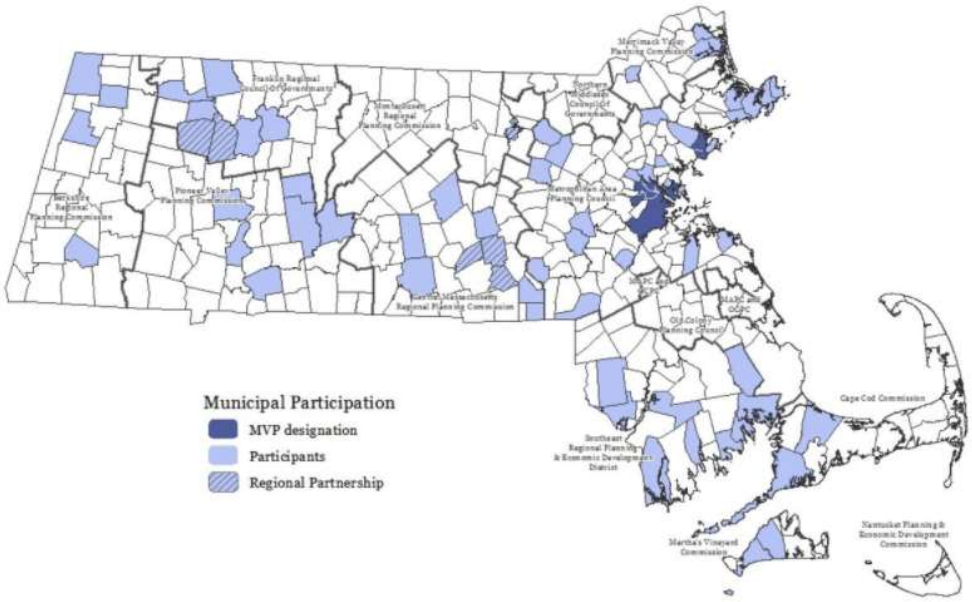
A. Proposals Sought For: Financial and technical assistance for municipalities who have received designation from the Executive Office of Energy and Environmental Affairs (EEA) as a Climate Change Municipal Vulnerability Preparedness (MVP) Community ("MVP Community") to implement priority adaptation actions identified through the MVP planning process, or similar climate change vulnerability assessment and action planning that has led to MVP designation.

B. Overview and Goals: The Municipal Vulnerability Preparedness Grant Program supports Executive Order 569, "Establishing an Integrated Climate Change Strategy for the Commonwealth," by providing direct funding and technical support to cities and towns to complete and implement community-driven climate change vulnerability assessments and priority action plans to improve the municipality's resilience to top natural and climate-related hazards using the Community Resilience Building (CRB) Workshop Guide (communityresilencebuilding.org). The MVP program is split into Planning Grants, which result in a completed CRB process and MVP plan, leading to designation as an "MVP Community;" and MVP Action Grants (outlined through this opportunity), which seek to implement key priorities and projects identified through the MVP Planning Grants.

C. Eligible Projects: Funding is to advance priority climate adaptation actions identified by "MVP Communities" to address climate change impacts resulting from extreme weather, sea level rise, inland and coastal flooding, severe heat, and other climate impacts. (See further detail on eligible projects in Section 2B). Projects that propose nature-based solutions or strategies that rely on green infrastructure or conservation and enhancement of natural systems to improve community resilience will receive higher scores.

1

What Other Communities Are in the MVP Program?



Community Resiliency Building Workshop

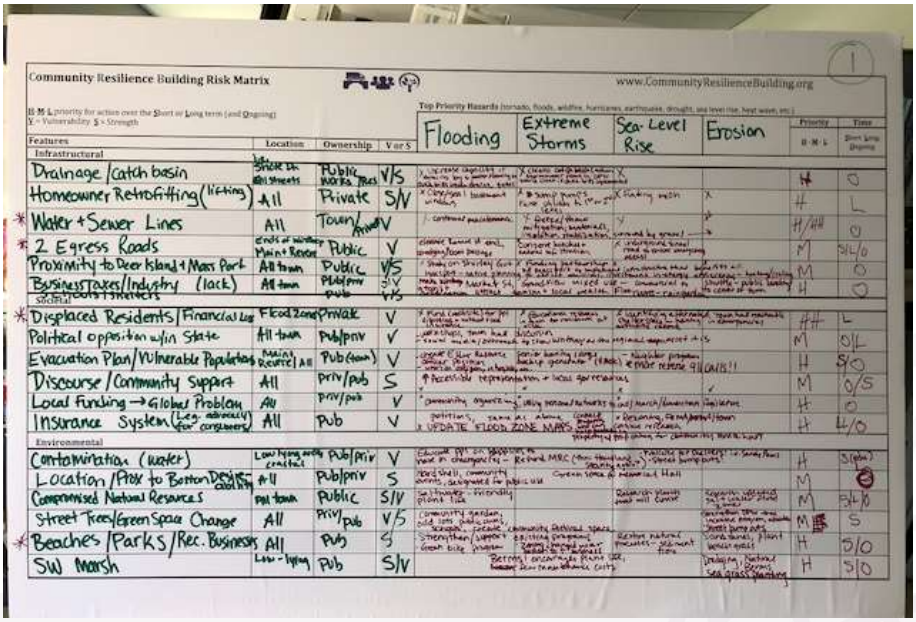
thank you

WOODARD &CURRAN

Community Resiliency Building Workshop

- CRB workshop held on April 6, 2018
- Each Individual Identified Challenges & Goals
- Background Information About Winthrop
- Climate Change Presentation – MassAudubon
- Characterized/Identified Natural Hazards
- Identified Community Vulnerabilities & Strengths
- Natural Infrastructure Solutions – Nature Conservancy
- Identified & Prioritized Community Actions

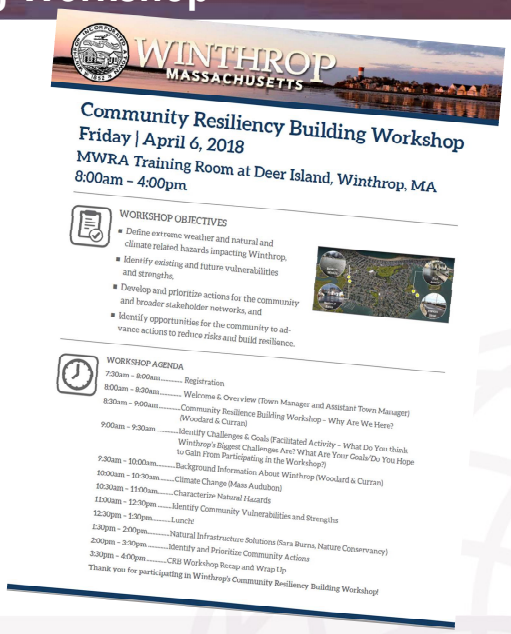
Community Resiliency Building Workshop - Matrix



Community Resiliency Building Workshop

Community Resiliency Building Workshop

- As part of the MVP program, participating communities MUST complete a Community Resiliency Building Workshop!
- Upon completion of the workshop, a summary report will be submitted to EEA.
- Winthrop will continue to use this guiding report to reinforce future planning and action item implementation.



WINTHROP
MASSACHUSETTS

Community Resiliency Building Workshop
Friday | April 6, 2018
MWRA Training Room at Deer Island, Winthrop, MA
8:00am – 4:00pm

WORKSHOP OBJECTIVES

- Define extreme weather and natural and climate related hazards impacting Winthrop.
- Identify existing and future vulnerabilities and strengths.
- Develop and prioritize actions for the community and broader stakeholder networks, and
- Identify opportunities for the community to advance actions to reduce risks and build resilience.

WORKSHOP AGENDA

7:30am – 8:00am..... Registration
8:00am – 8:30am..... Welcome & Overview (Town Manager and Assistant Town Manager)
8:30am – 9:00am..... Community Resilience Building Workshop – Why Are We Here? (Woodard & Curran)
9:00am – 9:30am ..... Identify Challenges & Goals (Facilitated Activity – What Do You think Winthrop's Biggest Challenges Are? What Are Your Goals/Do You Hope to Gain From Participating in the Workshop?)
9:30am – 10:00am..... Background Information About Winthrop (Woodard & Curran)
10:00am – 10:30am..... Climate Change (Mass Audubon)
10:30am – 11:00am..... Characterize Natural Hazards
11:00am – 12:30pm ..... Identify Community Vulnerabilities and Strengths
12:30pm – 1:30pm..... Lunch!
1:30pm – 2:00pm..... Natural Infrastructure Solutions (Sara Burns, Nature Conservancy)
2:00pm – 3:30pm..... Identify and Prioritize Community Actions
3:30pm – 4:00pm..... CRB Workshop Recap and Wrap Up
Thank you for participating in Winthrop's Community Resiliency Building Workshop!

Community Resiliency Building Workshop - Purpose

- Address the need to build community resilience in a collaborative environment.
- Foster a discussion that will help Winthrop adapt to extreme weather and natural hazard events.
- Encourage continued proactive planning and actions focused on resiliency.
- Consider all aspects of the community – residents, employees, students, infrastructure, the environment.

Community Resiliency Building Workshop - Intent

- Foster collaboration amongst community stakeholders.
- Advance education, planning and implementation of priority actions identified during the CRB process.

Community Resiliency Building Workshop - Objectives

- The CRB was designed to help communities achieve the following objectives:
  - Define extreme weather and natural and climate related hazards
  - Identify existing and future vulnerabilities and strengths
  - Develop and prioritize actions for the community
  - Identify opportunities to take action to reduce risk and build resilience

CRB Workshop – What We Heard From YOU!

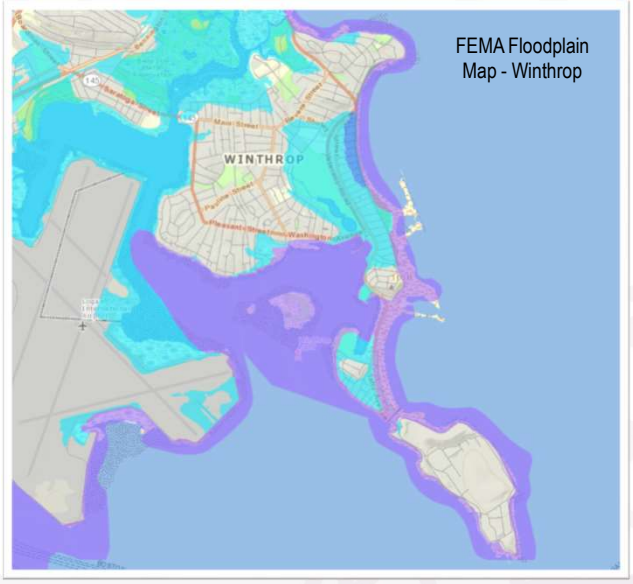
- Challenges
  - Need a plan for chronic flooding
  - Flood control and recovery
  - Where to find funding?
  - Flood Insurance Requirements
  - Infrastructure updates and drainage
  - Coastal protection
  - Vulnerable residents
  - Community engagement
  - Understanding nature based solutions
  - Evacuation plan
  - Isolation
  - Limited egress during emergencies
- Challenges
  - Airport pollution
  - Power outages
  - Surrounded by ocean
  - Over development
  - Resiliency
  - Aging infrastructure
  - Erosion
  - Problem areas
  - Collaboration with MWRA and MassPort
  - Groundwater
  - Smart development
  - Energy resilience

CRB Workshop – What We Heard From YOU!

- Goals
  - Develop a clear picture of how to be involved with action items
  - Information gathering
  - To be the voice of seniors in the community
  - Understand work accomplished to date
  - Identify target priorities
  - Communicate concerns
  - Discuss need for seawalls, berms
  - Discuss need for natural infrastructure
  - Better understand how Winthrop will be impacted by Climate Change
- Goals
  - How can neighborhoods better prepare during emergencies
  - Learn more about emergency challenges
  - Heighten awareness
  - Contribute solutions
  - Take home ideas to implement
  - Meet other neighbors
  - Understand the action plan

Community Resiliency Building Workshop - Outcomes

- Top Natural Hazards Identified By Participants
  - **Sea Level Rise**
  - **Flooding**
  - Hurricanes/Wind/Extreme Storms
  - Wave Action/Storm Surge
  - Extreme Heat
  - Fire
  - Erosion
  - Increasing Precipitation
  - Isolation



FEMA Floodplain Map - Winthrop

CRB Workshop – Infrastructure Vulnerabilities

- Drainage
- Water & Sewer Lines
- Only 2 Egress Roads
- Proximity to MassPort/Deer Island
- Lack of Businesses/Industry
- Lights/lines – communication
- Infrastructure (gas, power)
- Residential homes
- Water Tower
- No concrete revetment on Deer Island
- Lack of vegetation, dunes, trees
- Roads
- Bridges
- Evacuation Routes
- Public Safety Building
- Culverts

CRB Workshop – Societal Vulnerabilities

- Displaced Residents/Financial Loss
- Political Opposition Within the State
- Evacuation Plan
- Vulnerable Populations
- Isolation
- Emergency Response
- Financial Limitations/Crisis
- Local Funding
- Insurance System
- Food Plan
- Shelters
- Yacht Clubs
- Elderly Housing

CRB Workshop – Environmental Vulnerabilities

- Contamination (Water)
- Compromised Natural Resources
- Street Trees/Green Space
- Belle Isle Marsh
- Ocean
- Geographic Location
- Coughlin Park
- Place to Dispose Debris
- Beach Erosion
- Electrical Currents During Flooding
- Natural Barriers
- Funding
- Harbor
- Tree Cover
- Wildlife

CRB Workshop – Infrastructure Strengths

- Drainage System
- Homeowner Retrofitting
- Proximity to Deer Island/MassPort
- Businesses/Industry
- Schools/Shelters
- Utility Power
- Reverse 911
- Green Infrastructure/LID
- Sea Walls & Rip Rap
- Utility Systems
- Building Codes
- Pervious Pavement
- Water Tower

CRB Workshop – Societal Strengths

- Discourse/Community Support
- Legislative Representatives
- MassPort
- MWRA
- Property Values
- Con Com Working With Homeowners
- People
- Homeowner Incentives
- Local Health Center
- Schools/Shelters
- Elderly Housing
- Emergency Medical Center
- Emergency Response Staff
- Code Red

CRB Workshop – Environmental Strengths

- Location/Proximity to Boston
- Natural Resources
- Street Trees/Green Space
- Beaches, Parks, Recreation
- Belle Isle Marsh
- Coughlin Park
- Tree Cover
- Wildlife
- Natural Barriers/Beaches
- Parks/Golf Course
- Wetland Protection
- Harbor

Community Resiliency Building Workshop - Outcomes

- Top 6 Recommendations to Improve Resiliency
  - Used Dot Exercise to refine the top priorities

Rank	Action
1	Sewer & Drainage Infrastructure – Clean, maintain and upgrade (particularly in the Town Center and low lying areas).
2	Maintain, Replace, Upgrade Seawalls
3	Natural and Green Infrastructure Solutions, Low Impact Development (to support or enhance the functioning of seawalls and the shoreline as a barrier, for improved stormwater management)
4	Develop or redevelop a new public safety building (police, fire, ambulance)
5	Maintain and protect Belle Isle Marsh, Coughlin Park and beaches as assets to the community for both recreation and resiliency support
6	Identify funding for projects to increase resilience (including further developing the tax base to increase revenue in the community)

Community Resiliency Building Workshop – Q & A

- What questions do you have?
- What comments do you have?
- Can we clarify something for you?
- What else do you want to make sure we capture through this CRB process?
- Do you have feedback or a question you would like to submit via notecard?

Next Steps

- Finalize CRB report and submit to EEA.
- Upon review of CRB report by EEA, become a Certified MVP Community.
- Seek out and apply for funding opportunities through grant programs for MVP communities.
- Seek out and continue to apply for funding opportunities through other grant programs – CZM, PDM, FMA.
- Continue to communicate with and engage Winthrop community in resiliency discussions and decisions.

Winthrop, MA

Community Resiliency Building Listening Session

May 8, 2018

COMMITMENT & INTEGRITY DRIVE RESULTS
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T 978.557.8150
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MEMORANDUM

TO: Joe Domelowicz, Assistant Town Manager

FROM: Mary McCrann, AICP

DATE: May 15, 2018

RE: Winthrop CRB – Listening Session Notes

Below are the notes taken during the Winthrop CRB Listening Session on May 8, 2018.

- How is the Town filtering projects to the MVP Action Grant program?
- What is the status of the CBD sewer/drainage work?
- Miller Field Drainage project was successful (opened swales, tide gate)
- Donovan Beach Pump Station & Engineering Study – include this as a project
- Partner with Revere and Boston on the Belle Isle Marsh efforts
- Is something similar to the five sisters possible to disperse water further out?
- Is the community trying to target some land as unbuildable?
- Is the community trying to coordinate with the insurance industry at all?
- Revere Street flooding – a wall was constructed for Deer Island. There needs to be a neighborhood concept for wall/protection and shared expense commitment.
- Planning work with neighborhoods needs to be done for collaboration, to understand the issues and to discuss options.
- Yirrell Beach – storm impacts/Tafts & side streets – need to evaluate mitigation options for issues in this area.
- Consider removing the MWRA wall 0 its causing impacts. Need to stop the water from coming down Tafts.
- January 4th and March 3rd storms caused tremendous damage.
- Consider unintended consequences when thinking about projects.
- Opportunities to create or reseed marsh areas (Tafts/Yirrell)
- Shirley gut was closed – this is part of the problem.
- Access to Deer Island was cut off during one of the recent storm events.
- Shirley Street near the Yacht Club – regarding sea level rise, how do you solve the problem there?

- Consider reversing one way streets during storm events?
- What is the status of the EBB – Pico, Shirley, Morton, Ingleside
- Engineering reports from 1955 and 1999 were submitted by a resident who stated that the flooding has been a known issue for a long time. One of the reports states that a pump station could help.
- Consider a homeowner buyout program.
- Consider new construction limitations in the ordinances for elevation and other requirements.
- Pursue a home elevation program.
- Should building permits be given to known structures that flood?