

## Bryan C. Haughey

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**Subject:** MVP/HMP Planning Grant Core Team- Danielle Marini CMRPC will be in Holland Tomorrow  
**Location:** Town Hall Community Room - 27 Sturbridge Rd Holland, MA

**Start:** Thu 8/11/2022 11:00  
**End:** Thu 8/11/2022 12:00  
**Show Time As:** Tentative

**Recurrence:** (none)

**Meeting Status:** Not yet responded

**Organizer:** Bryan C. Haughey  
**Required Attendees:** Clelland Johnson; Holland Town Administrator; Town of Holland Selectmen; hallerr@cox.net; Robert Parron; peterfrei@cox.net; Samuel Spratlin; Andrew Harhay; karenperet.hollandfinbd@gmail.com; Danielle Marini | CMRPC; Smith, Andrew B (ENV)

Greetings,

Danielle Marini, our new project lead from CMRPC will be in Holland on Thursday, August 11, 2022, at 11 AM – Town Hall (Community Room). Danielle requested to meet for the purpose of reviewing where we are in the planning process of the MVP/HMP Planning Grant, and to determine what tasks still need to be completed ahead of the workshop (that is planned for September 10<sup>th</sup>).

I understand that this is short notice, (we literally just arranged this yesterday afternoon), but I wanted to make the members of the Core Team aware and invite you to participate if you wish. We expect this to be a brief and informal discussion and hopefully we can finalize the format-language for disseminating the workshop announcement. As you may remember, at the last meeting with Mary Hannah Smith, we discussed the announcement process and how we intend on going about distributing the notice. Danielle has taken over as project lead since Mary Hannah has left the organization.

This will not be a forum to discuss mitigation and climate change preparedness ideas specifically as we have in past meetings, just a discussion on the next steps in the process leading up to the workshop.

Unfortunately, Stacy is away, and I do not have the capability of arranging for remote access.

Respectfully,

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## Bryan C. Haughey

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**From:** Danielle Marini | CMRPC [dmarini@cmrpc.org]  
**Sent:** Friday, August 12, 2022 12:15  
**To:** Bryan C. Haughey; Clelland Johnson; Holland Town Administrator; Town of Holland Selectmen; Robert Parron; peterfrei@cox.net; Samuel Spratlin; Andrew Harhay; karenperet.hollandfinbd@gmail.com  
**Subject:** RE: MVP-HMP Project Follow-up to August 11 the Meeting Concerning the Website Landing Page  
**Attachments:** Holland MVPHMP Workshop Invitation updated.docx; Holland MVPHMP Workshop Invitation updated.pdf; SHMCAP\_climate-change-hazards.pdf

Hi Core Team,

It was great meeting some of you yesterday! For those who were unable to attend, below is a summary of what was discussed:

- **Workshop Date:** We confirmed that the Community Resilience Building Workshop will be held on Saturday, September 10<sup>th</sup> from 9:00 AM to 5:00 PM in-person at the Holland Community Center.
- **Workshop Invitees:** Though we are opening up the workshop to all Holland residents, the Core Team came up with a list of additional stakeholders and experts that can offer more insight into the Town. I would suggest sending the invitation to these stakeholders at least once a week leading up to the workshop. The more these organizations see the invitation, the more likely they will be to respond/attend. And feel free to expand the invitee list as you see fit. We will be discussing infrastructural and societal concerns in addition to environmental issues, so the invited organizations/stakeholders do not need to be limited to environmental groups only. Schools, churches, youth organizations, local businesses, local construction companies, etc. can all offer insight into the Town.
- **Food:** We will be providing breakfast and lunch during the workshop to encourage participation. It was discussed that breakfast might include coffee and pastries, and lunch might include sandwiches or other food provided by the Community Center and/or local farms/vendors. Bryan will investigate food options further. Final RSVP numbers will be sent to the Town on September 3<sup>rd</sup> to verify how much food we will need.
- **Pre-Workshop Meeting:** We will hold a pre-workshop meeting on Wednesday, September 7<sup>th</sup> at 11 AM at the Holland Community Center. At this meeting, we will verify RSVP numbers, will assign tables for those who have RSVP'd, and will determine how we will want to set up the workshop space. We will also determine our top four natural hazards that effect the Town. Please refer to the attached document which describes the various hazards that effect Massachusetts.
- **Workshop Presentations:** During the workshop, we will begin with an introduction from someone on the Core Team. This introduction can be a simple "welcome to the workshop", or you can give a more detailed introduction discussing why the Town was interested in going through this planning process or identifying climate-related hazards that the Town is already facing. CMRPC will lead the other workshop presentations which will include information about climate projections, natural hazards, and the MVP program. Following the workshop, I will send the Town recorded PowerPoint presentations to be uploaded to the Town's website.
- **Hazard Mitigation Planning:** We will plan to hold more Hazard Mitigation focused meetings in late September/October. These meetings will allow us to verify the information gathered during the MVP workshop, as well as identify additional natural hazard and critical infrastructure concerns.

Bryan, the website looks great! I have added the link to the invitation as another resource that participants can check out. Attached is the updated invitation in Word and PDF format. Please let me know if you would like any other changes made to the invitation. Otherwise, if it looks okay, then please start distributing it around Town.

Best Regards,  
Dani Marini

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**From:** Bryan C. Haughey <bhaughey@hollandma.org>

**Sent:** Friday, August 12, 2022 8:38 AM

**To:** Clelland Johnson <clelland.johnson.selectman@gmail.com>; Holland Town Administrator <townadmin@hollandma.org>; Town of Holland Selectmen <selectmen@hollandma.org>; Danielle Marini | CMRPC <dmarini@cmrpc.org>; Robert Parron <rjparron.building@gmail.com>; peterfrei@cox.net; Samuel Spratlin <samuel.spratlin@gmail.com>; Andrew Harhay <andyharhay.hollandfinbd@gmail.com>; karenperet.hollandfinbd@gmail.com

**Subject:** MVP-HMP Project Follow-up to August 11 the Meeting Concerning the Website Landing Page

**CAUTION:** This email originated from **outside of the organization**. DO NOT click links or open attachments unless you recognize the sender and know the content is safe. Thanks.

Greetings,

Concerning the conversation at the August 11<sup>th</sup> meeting about the website landing page, back on June 2, 2022, I posted an update on the Police page of the website in the news and announcements section. I just cleaned it up a little bit and added some language about the workshop (in anticipation of the invitation being completed). This (update) has pretty much ALL the pertinent information about the project, including PDF attachments about the Environmental Hazard Mitigation Project (of which this grant is phase 1), letters of support for the project, and the Planning Board and LOC proposal documents, among other documents. The idea here is the fullest amount of transparency possible.

My thought was that we can use this link as our “landing page” and when the invitation is completed I can upload that as well (along with anything else pertinent as we move forward). I can reach out to the Town website administrator and ask them to share it to the default main page under the news section. By sharing it as a link on the main page, each time we add an update, the information should update (in theory anyway), so we don’t have to keep re-posting the link on the main page every time we make an edit.

Seems to make sense to me anyway. Thoughts?

This is the link: [Municipal Vulnerability Preparedness MVP-HMP Planning Grant | Holland MA](#)

Thanks,

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# PARTICIPATE IN HOLLAND'S MUNICIPAL VULNERABILITY PREPAREDNESS (MVP) PROGRAM AND HAZARD MITIGATION PLANNING PROCESS



With the focal point of our community being the Hamilton Reservoir and with our vast amount of ponds, rivers, streams, trails, and other unique ecological systems, we must take a proactive approach in prioritizing the preservation of our natural resources.

We would like to personally invite you to participate in a Community Resilience Building Workshop focused on protecting and fostering the natural, scenic, and esthetic qualities of our environment.

The MA Executive Office of Energy and Environmental Affairs' (EEA)

## **MUNICIPAL VULNERABILITY PREPAREDNESS (MVP) PROGRAM WORKSHOP**

**Saturday, September 10, 2022, 9:00 AM – 5:00 PM**

**Holland Community Center**

**40 Brimfield Rd**

**Holland, MA 01521**

*Breakfast and Lunch will be provided*

Please [RSVP HERE](#) or at <https://forms.gle/1z1Wb4ciDbomC9Br6> by Friday, September 2, 2022

The Town of Holland is collaborating with the Massachusetts Executive Office of Energy and Environmental Affairs (EEA) and the Central Massachusetts Regional Planning Commission (CMRPC) to offer this Workshop which will bring together community members to identify and prioritize steps to reduce risk and improve resilience across Holland. This Workshop will help develop and advance comprehensive community resilience planning, hazard mitigation, and adaptation efforts.

The Workshops objectives are to:

- Define extreme weather and climate related hazards;
- Identify current and future vulnerabilities and strengths;
- Develop and prioritize actions; and
- Identify opportunities for the Town to advance actions and reduce risks to build resilience.

To learn more about the Workshop, please visit the following websites:

- Holland MVP/HMP Information: <https://town.holland.ma.us/holland-police-department/news/municipal-vulnerability-preparedness-mvp-hmp-planning-grant>
- Community Resilience Building: <https://www.communityresiliencebuilding.com/crbworkshopguide>
- Municipal Vulnerability Program: <https://www.mass.gov/municipal-vulnerability-preparedness-mvp-program>
- Resilient MA, Climate Change Clearinghouse for the Commonwealth: <https://www.resilientma.org/>

If you have any questions about the program, please contact Danielle Marini, Environmental Planner for CMRPC by email at [dmardini@cmrpc.org](mailto:dmardini@cmrpc.org).

We look forward to seeing you or a designee at our Workshop. Thank you for your assistance with this important project!

Sincerely,

**The Holland Municipal Vulnerability Preparedness/Hazard Mitigation Core Team**

## 3.2 Climate Change and Natural Hazard Taxonomy

The HIRA is organized based on primary climate change interactions. A categorization of traditional natural hazards, within the context of climate change, was included to demonstrate the connections between traditional natural hazard analysis and climate change projections. This categorization also aligns with the four climate change categories included on the Commonwealth’s resilient MA Climate Change Clearinghouse website (<http://www.resilientma.org/>). Those categories are illustrated as follows.



**Changes in Precipitation:** Changes in the amount, frequency, and timing of precipitation—including both rainfall and snowfall—are occurring across the globe as temperatures rise and other climate patterns shift in response.



**Sea Level Rise:** Climate change will drive rising sea levels, and rising seas will have wide-ranging impacts on communities, natural resources, and infrastructure along the Commonwealth’s 1,519 tidal shoreline miles.





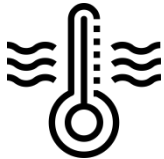

**Rising Temperatures:** Average global temperatures have risen steadily in the last 50 years, and scientists warn that the trend will continue unless greenhouse gas emissions are significantly reduced. The 9 warmest years on record all occurred in the last 20 years (2017, 2016, 2015, 2014, 2013, 2010, 2009, 2005, and 1998), according to the U.S. National Oceanographic and Atmospheric Administration (NOAA).



**Extreme Weather:** Climate change is expected to increase extreme weather events across the globe, as well as right here in Massachusetts. There is strong evidence that storms—from heavy downpours and blizzards to tropical cyclones and hurricanes—are becoming more intense and damaging, and can lead to devastating impacts for residents across the state.

The hazards presented in this risk assessment, and the order in which they appear, are based on the taxonomy presented in Table 3-1.

**Table 3-1: Climate Change and Natural Hazard Taxonomy**

Primary Climate Change Interaction	Natural Hazard	Other Climate Change Interactions	Representative Climate Change Impacts
 <p><b>Changes in Precipitation</b></p>	Inland Flooding	Extreme Weather	Flash flooding, urban flooding, drainage system impacts (natural and human-made), lack of groundwater recharge, impacts to drinking water supply, public health impacts from mold and worsened indoor air quality, vector-borne diseases from stagnant water, episodic drought, changes in snow-rain ratios, changes in extent and duration of snow cover, degradation of stream channels and wetland
	Drought	Rising Temperatures, Extreme Weather	
	Landslide	Rising Temperatures, Extreme Weather	
 <p><b>Sea Level Rise</b></p>	Coastal Flooding	Extreme Weather	Increase in tidal and coastal floods, storm surge, coastal erosion, marsh migration, inundation of coastal and marine ecosystems, loss and subsidence of wetlands
	Coastal Erosion	Changes in Precipitation, Extreme Precipitation	
	Tsunami	Rising Temperatures	
 <p><b>Rising Temperatures</b></p>	Average/Extreme Temperatures	N/A	Shifting in seasons (longer summer, early spring, including earlier timing of spring peak flow), increase in length of growing season, increase of invasive species, ecosystem stress, energy brownouts from higher energy demands, more intense heat waves, public health impacts from high heat exposure and poor outdoor air quality, drying of streams and wetlands, eutrophication of lakes and ponds
	Wildfires	Changes in Precipitation	
	Invasive Species	Changes in Precipitation, Extreme Weather	
 <p><b>Extreme Weather</b></p>	Hurricanes/Tropical Storms	Rising Temperatures, Changes in Precipitation	Increase in frequency and intensity of extreme weather events, resulting in greater damage to natural resources, property, and infrastructure, as well as increased potential for loss of life
	Severe Winter Storm / Nor'easter	Rising Temperatures, Changes in Precipitation	
	Tornadoes	Rising Temperatures, Changes in Precipitation	
	Other Severe Weather (Including Strong Wind and Extreme Precipitation)	Rising Temperatures, Changes in Precipitation	
<p><b>Non-Climate-Influenced Hazards</b></p>	Earthquake	Not Applicable	There is no established correlation between climate change and this hazard