Bureau of Waste Site Cleanup Advisory Committee Meeting

August 15, 2024



^{*} This meeting is being recorded.

Advisory Committee Meeting Agenda

- Welcome / Agenda Review Adoption Millie Garcia-Serrano, DEP
- Budget Millie Garcia-Serrano, DEP
- General WSC Staff & Program Updates

Comings & Goings - Millie Garcia-Serrano, DEP

Brownfields - Diane Baxter, DEP

BWSC Data Management System - Brian Roden, DEP

- ER & MOSPRA Report Out Cathy Kiley, DEP
- LSP Board Report Out Terry Wood, Esq., LSP Board
- LSP Association Report Out Joe Roman, LSP, LSPA
- 2024 MCP Amendments Implementation: Subpart I Q&A Ken Marra, DEP
- Soil Reuse Update Ken Marra, DEP
- PFAS BWSC Updates and BWSC Draft Q&A Fact Sheet Millie Garcia-Serrano & John Ziegler, DEP
- MOSPRA Special Presentation: Climate Resilience & Oil Spill Preparedness Millie Garcia Serrano, DEP & Elise DeCola, NUKA
- Next WSC Advisory Committee Meeting & Wrap Up Millie Garcia-Serrano, DEP

SFY25 Budget



Millie Garcia-Serrano, MPH
Assistant Commissioner
MassDEP | Bureau of Waste Site Cleanup

Budget SFY25

- New SFY25 \$57.78B budget signed by Gov. Healey on 7/29/24
 - Focus on Education, Economic Development, Energy & Environment, Transportation, Housing, Infrastructure, Municipal Government Aid, Health& Human Services
- Dedicated Support to Energy & Environment in SFY25
 - 1% of state budget for EEA
 - 2nd year in a row (akin to FY24)
 - \$555M for EEA
 - \$87M for DEP, includes level funding for staff
 - \$8.7M directed at EJ work across EEA
 - Commonwealth Overarching Goals:
 - Becoming global leaders in clean energy economy
 - Strengthening State's climate resiliency, mitigation & adaptation
 - MassDEP Focus Areas:
 - EJ, PFAS, Air Quality, Cumulative Impact Analysis implementation, Bureau mission implementation, Coastal Resiliency, Climate Mitigation,





General WSC Staff & Program Updates



Millie Garcia-Serrano, MPH
Assistant Commissioner
MassDEP | Bureau of Waste Site Cleanup

Comings & Goings



Millie Garcia-Serrano, MPH
Assistant Commissioner
MassDEP | Bureau of Waste Site Cleanup

Comings & Goings

MassDEP Staff



Sarah Hughes, Boston BWSC Audits & Enforcement Environmental Analyst



Dan Crafton, Retired-SERO, BWSC ER Section Chief



Andy Jones, SERO BWSC Acting ER Section Chief



Comings & Goings (Effective FY24 Expansion)

NERO

- <u>New:</u> Eric Marchese, Kerri Hertz, Allison Roche, Kiara Ortiz, Lisa Luchford,
- Retired: Irene Dale, Hector Laguette

CERO

- <u>New:</u> Amy Sullivan, Michael Pascone, John Bourcier, Paul Jackson, Aaron Kaczowka,
- <u>Retired:</u> Matthew Fitzpatrick

WERO

• New: Kaley Fourier

SERO

- New: Steven Gougherty, Rachel Stevens
- Retired: Dan Crafton



Comings & Goings

U.S. Coast Guard



Retired Captain Kailie Benson former Sector Boston Commander



Captain Jamie Frederick

New Sector Boston

Commander



Captain Clint Prindle former Sector Southeast Commander



Captain Mimi Moon
New Sector Southeast
Commander











Comings & Goings

LSP Association



Charles Young, LSP Immediate Past-President 2024-2025



Joe Roman, LSP New President 2022-2025



Fresident Elect 2023-2026

Brownfields Program Update



Diane Baxter for David Foss, CPG, LSP

<u>David.Foss@Mass.Gov</u>

chusetts Statowide Brownfields Coordinator

Massachusetts Statewide Brownfields Coordinator MassDEP | Bureau of Waste Site Cleanup

EPA Assessment Grantee

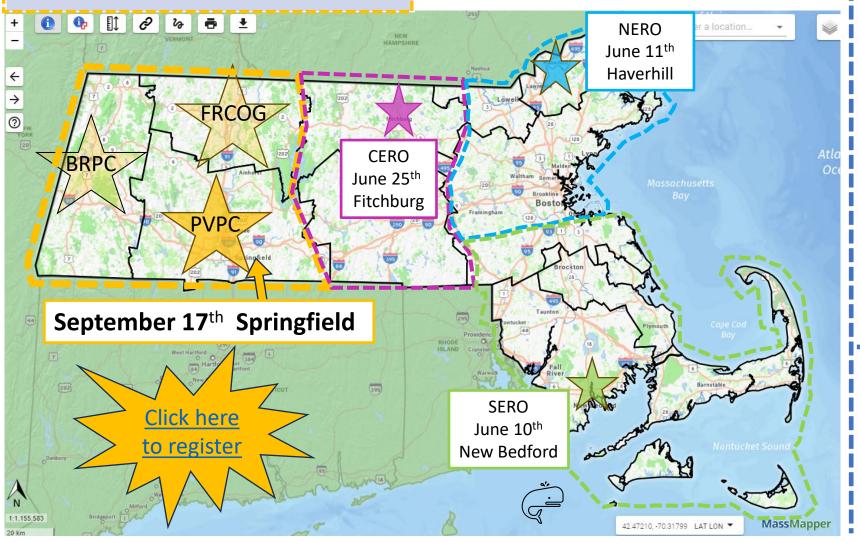
WESTERN REGION

Berkshire Regional Planning Commission

Franklin Regional Council of Governments

Pioneer Valley Planning Commission*

Brownfields Update





EPA Funding Opportunities:

Assessment, Cleanup & Revolving Loan Fund

Announcement coming in September

BWSC Data Management Systems Update



Brian Roden

Audit & Enforcement Program, Statewide Coordinator MassDEP | Bureau of Waste Site Cleanup

BWSC Data Management Update

- eDEP Forms
 Revisions based on 2024 MCP Amendments
- Searchable Sites
 - Continued work with EEA IT on internal systems
- New File Viewer Released July 2024
- Questions with Searchable Sites, eDEP or File

Viewer: BWSC.eDEP@mass.gov



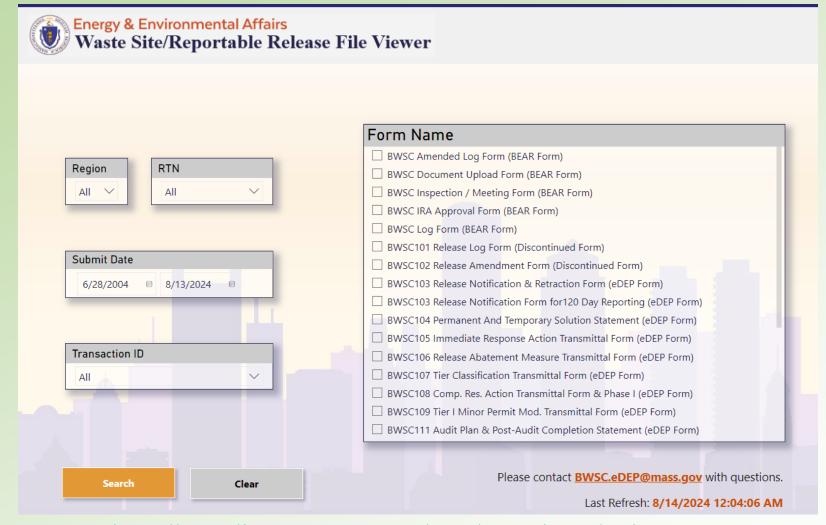
BWSC Searchable Sites



https://eeaonline.eea.state.ma.us/portal/dep/wastesite/



BWSC File Viewer



https://eeaonline.eea.state.ma.us/DEP/wsc_viewer/main.aspx



Emergency Response & MOSPRA Program Updates



Cathy Kiley

Emergency Planning & Response, Statewide Coordinator
MassDEP | Bureau of Waste Site Cleanup





Emergency Response Program

- Staff Changes
 - SERO ER Dan Crafton retired, Andy Jones is Acting Section Chief
 - CERO ER Bob Dunne is retiring in September
- AFFF Take Back Program
 - From June 2018 June 2024, over 390,000 lbs. (over 46,500 gals) of foam have been collected from 162 fire departments and facilities in MA
- Emergency Response #s
 - FY23 1,175 releases/1,058 complaints
 - FY24 1,083 releases/1,070 complaints
 - Approximately 74% Oil, 23.5% Hazardous Material, 2.5% OHM
- Support to MEMA
 - ESF10 Operations Support Branch, Debris Assessment and Rapid Damage Assessment
 - EMAC Deployment HI –Operations Section Chief support for 2023 Wildfires
- Inland GRS with EPA
 - Blackstone River 6/5/2024; GRS Testing; DCR Blackstone Heritage Corridor Visitor Center, Worcester
 - Housatonic River working with EPA and Nuka on GRS development
- BSEE GIUE Vineyard Wind, New Bedford
 - 5/30/24





MOSPRA Program

Climate Ready Oil Spill Preparedness and Response

- As part of a multi-year project, MassDEP's contractor Nuka Research evaluated threat assessments for marine
 oils spills and conducted a climate ready workshop with stakeholders to identify and prioritize impacts of
 climate trends, projections, and policies and programs for oil spill risk, prevention, and response.
- The Final Report includes recommendations for deployment of resources and updating geographic response strategies for vulnerable coastal areas and also includes some response practices and preparation actions that require other modifications as a result of sea-level rise and other climate impacts.

GRS First Responder Training and GRS Testing Exercises

• 5 Training exercises conducted in the Spring 2024 and 5 are planned for the Fall 2024.

Grant Program – 2nd Round

- Projects that strengthen spill prevention measures and/or increase spill response capabilities and demonstrate a community benefit.
- 15 Grants Awarded in May 2024; more than \$691,000 9 municipalities, 3 non-profit community groups, and 2 private organizations
- https://www.mass.gov/info-details/marine-oil-spill-prevention-response-grant-program

Licensed Site Professional Board Report Out



Terry Wood, Esq.

Executive Director

MA Board of Registration of Hazardous Waste Site Cleanup Professionals (LSP Board)

Licensed Site Professional Association Report Out



Joe Roman, President

MA Licensed Site Professional Association (LSPA)

2024 MCP Amendments Implementation: Subpart I Q&A



Ken Marra, P.E.

Acting Division Director, Policy & Program Development

MassDEP | Bureau of Waste Site Cleanup

Subpart I – Q&A

- Met with LSPA and National Grid (7/18 & 7/19)
- Clarifying Coal Tar Waste Deposit definitions and requirements
- Clarifying EPC determinations
- In Progress: Conducting final Q&A DEP staff review before posting on public portal



Soils Reuse Update



Ken Marra, P.E.

Acting Division Director, Policy & Program Development

MassDEP | Bureau of Waste Site Cleanup

Soils Reuse Update

- COMM-24 Soils Policy to allow reuse of contaminated soils at other 21E sites
- Draft in progress, on-going high-level meetings
- Major acceptance requirements include (but not limited to):
 - Achievement of a Permanent Solution
 - Public Involvement
 - Other specifics in "Soils" ACO & SMP (e.g., AUL, FAM, sampling/monitoring, pH, traffic/fugitive dust)
- Anticipate draft in fall for further external engagement/input



BWSC PFAS Updates & DRAFT PFAS Q&As



John Ziegler, LSP

BWSC PFAS Program, Statewide Coordinator MassDEP | Bureau of Waste Site Cleanup

BWSC PFAS Updates

- Coordinating Review of EPA Final PFAS MCL Drinking Water Standards
- Continuing to Address:
 - IH Conditions (currently ≥ 90 ng/L PFAS6)
 - Source Discovery
- Providing Technical Support/Auditing of MCP Response Actions Conducted by PRPs
- Issue Guidance
 - CAM Protocol for EPA Method 1633
 - PFAS Q&A
 - Sampling & Analysis Guidance update
- Training PFAS Workshop, AEHS Conference, October 21, 2024



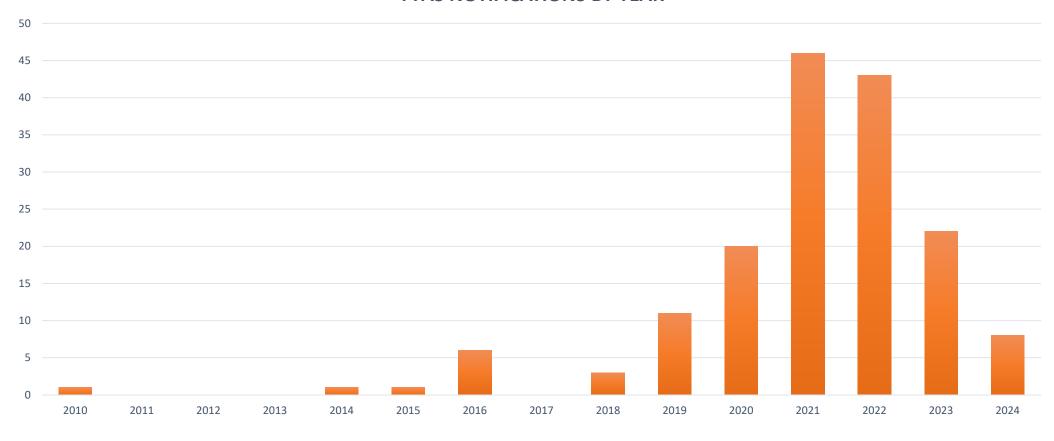
PFAS Standards Review

- April 10, 2024, EPA announced final National Primary Drinking Water Regulation establishing MCLs for PFAS, which became effective on June 25, 2024
- MassDEP's Drinking Water Program Leading Promulgation of Massachusetts Drinking Water Standards
 - Input from MassDEP's Office of Research and Standards
- BWSC is Coordinating Efforts to Promulgate MCP Cleanup Standards Concurrently with Drinking Water Program
 - Will, at a minimum, meet EPA MCL standards RCGW-1 and Method 1 GW-1
 - Considering revision to Imminent Hazard concentration of 90 ng/L
 - MCP soil standards not expected to change significantly considering additional background studies



PFAS Notifications - Update

PFAS NOTIFICATIONS BY YEAR

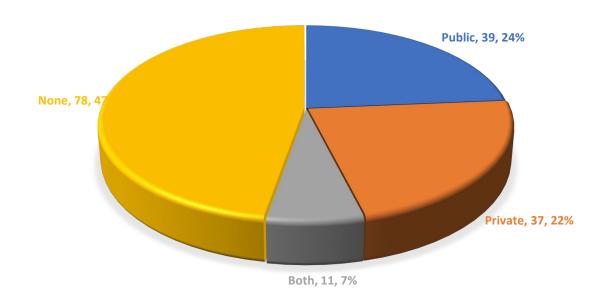


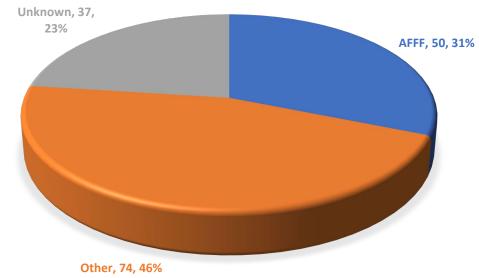


PFAS Notifications

DRINKING WATER AFFECTED BY PFAS SITES

SOURCE OF PFAS AT SITES

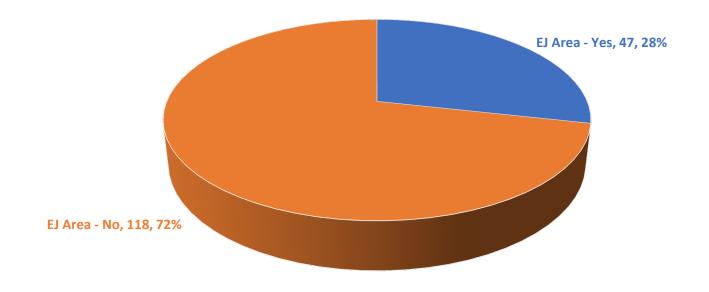






PFAS Notifications

PFAS NOTIFICATIONS WITHIN EJ AREAS





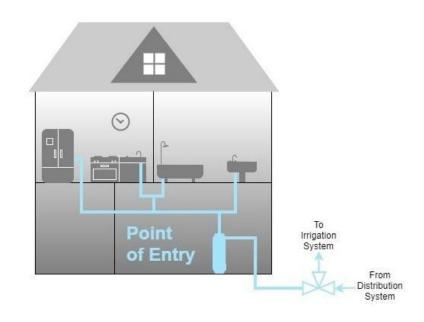
MassDEP Imminent Hazard Response / Source Discovery

Imminent Hazard Response

- Maintaining 54 POET systems; 3 additional planned
- POET systems are lead-lag systems utilizing GAC
- Providing bottled water at 33 locations
- Need for pre-treatment
 - Radon in water supply

Source Discovery Response

- Referrals from BWR DWP affected public wells
- Impacted private wells identified through MassDEP/UMass Private Well Sampling Program or other sampling
- Utilize Requests for Information, GIS, Sampling



Point of Entry (POE) Treatment



Draft PFAS Q&As Document

- Incorporates questions received from LSPA, regulated community,
 DEP staff
- Addresses several topic areas:
 - Standards
 - MCP Notification
 - Site Assessment
 - Risk Assessment
 - Treatment
 - Analysis
 - Downgradient Property Status



DRAFT PFAS Q&As

Q: The Environmental Protection Agency (EPA) issued federal maximum contaminant levels (MCLs) for PFAS compounds that differ from the current Massachusetts PFAS MCL. Will MassDEP's Massachusetts Contingency Plan standards be revised to reflect EPA's federal MCL?

- MassDEP's Drinking Water Program is taking the lead in promulgating Massachusetts drinking water standards consistent with EPA's federal rulemaking, as required by law. Promulgation of revised Massachusetts drinking water standards may take up to two years.
- MCP standards for reportable concentrations (i.e., RCGW-1) and Method 1 risk standards (i.e., GW-1) will reflect changes to the MassDEP Drinking Water Program's drinking water standards.
- Because EPA drinking water standards include PFAS compounds currently not covered by MassDEP PFAS6 drinking water standards and MCP cleanup standards, MassDEP will include these additional PFAS compounds in its standards.
- The final list of PFAS to be regulated by MassDEP's Drinking Water Program will be based on a review being conducted by MassDEP's Office of Research and Standards.
- Current standards remain in effect



DRAFT PFAS Q&As

- Q: What analytical method does MassDEP want to see now that EPA Method 1633 has been finalized?
- A: For public water supply drinking water analysis, EPA Method 533 or 537.1 should be used. These methods would also be appropriate for private drinking water supplies. MassDEP's November 13, 2023, Sampling and Analysis Guidance for PFAS at Disposal Sites Regulated under the Massachusetts Contingency Plan recommends that the most current EPA Method 1633 be used for the analysis of non-drinking water samples. MassDEP is developing a Compendium of Analytical Methods protocol for EPA Method 1633.
- Q: Must I analyze for all PFAS constituents per the specific analytical method, or may I use a subset of only PFAS compounds I am concerned about?
- A: MassDEP recommends that all analytes be reported for each analytical method. For non-drinking water samples, use of Method 1633 includes reporting for 40 compounds. However, specific knowledge of site history/operations, results of past analyses and other relevant information may be considered to expand or reduce the list of target analytes. In general, there is an expectation that initial site characterization efforts include full analyte lists.

DRAFT PFAS Q&As

- Q: Can a Reverse Osmosis point of entry treatment system be used for homes with private water supply wells contaminated by PFAS?
- A: Reverse Osmosis (RO) treatment systems produce wastewater that concentrates contaminants resulting in a higher concentration than the original water entering the system. The discharge of wastewater from an RO treatment system to a Title 5 septic system is prohibited under MassDEP Title 5 regulations (310 CMR 15.000; https://www.mass.gov/info-details/pfas-in-private-well-drinking-water-supplies-faq#if-i-have-pfas-in-my-well-water-what-can-i-do?-. The concentrated wastewater also may not be suitable for discharge to a municipal sewer system and should be discussed with the municipality prior to discharge.



BWSC PFAS Priorities

- Coordinating Review of EPA Final PFAS MCL Standards
- Continuing to Address:
 - IH Conditions (currently > 90 ng/L PFAS6)
 - Source Discovery
- Providing Technical Support/Auditing of MCP Response Actions Conducted by PRPs
- Issue Guidance
 - CAM Protocol for Method 1633
 - PFAS Q&A (Final)
 - Sampling & Analysis Guidance update
- Training PFAS Workshop, AEHS Conference, October 21, 2024





PFAS Program Questions or Comments? Contact:

John Ziegler, LSP
PFAS Coordinator
MassDEP-BWSC, Division of Policy & Program Development
100 Cambridge Street, Suite 900
Boston, MA 02114

C: (617) 874-6733; John.Ziegler@mass.gov



MOSPRA – Special Presentation Climate Resilience & Oil Spill Preparedness



Elise DeCola General Manager Nuka Research



Evaluating and Adapting Oil Spill Preparedness and Response Capabilities for a Changing Climate

Summary of MOSPRA Threat Assessment Update and Climate-Ready Workshop



Cathy Kiley, Emergency Planning and Response Coordinator, MassDEP BWSC Elise DeCola, General Manager, Nuka Research

Image: WBUR

Topics



Massachusetts Marine
Oil Spill Prevention and
Response Act (MOSPRA)
History & Program
Activities



Massachusetts Climate-Ready Oil Spill Preparedness and Response Project



Strategic Foresight Theory & Practice



Mapping Future
Scenarios for Climate
Resilient MOSPRA

Marine Oil Spill Prevention and Response Act (MOSPRA)

Key Program Elements



Massachusetts Climate-Ready Oil Spill **Preparedness and Response Project**









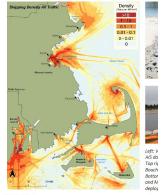
Evaluating and Adapting Oil Spill Preparedness and Response Capabilities for a Changing Climate

LITERATURE REVIEW AND SYNTHESIS



Massachusetts Department of Environmen

Marine Oil Spill Threats to Massachusetts Coastal Communities: Updated Assessment



Massachusetts Department of Environment January 2024

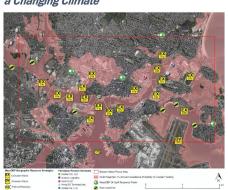
Climate Ready Oil Spill Preparedness and Resporse Workshop

Summary Report



August 31, 2023

Evaluating and Adapting Oil Spill Preparedness and Response Capabilities for a Changing Climate



Massachusetts Department of Environmental Protection June 2024



How do we envision plausible future scenarios that help us to build resilience into MOSPRA and other oil spill prevention and response programs?

1 EXPOSURE BASED ON VESSEL TRAFFIC & STORAGE OF OIL

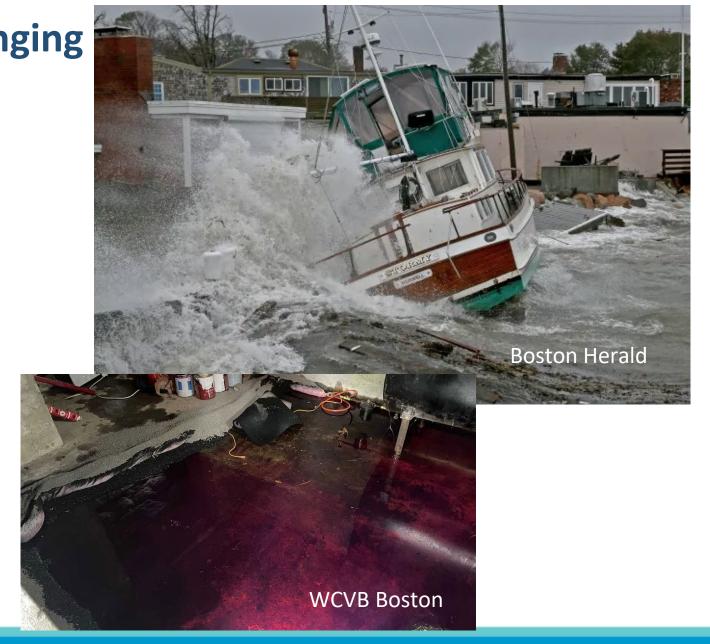
2 CLIMATE HAZARDS & ADAPTATION

3 DECARBONIZATION TARGETS & TECHNOLOGY



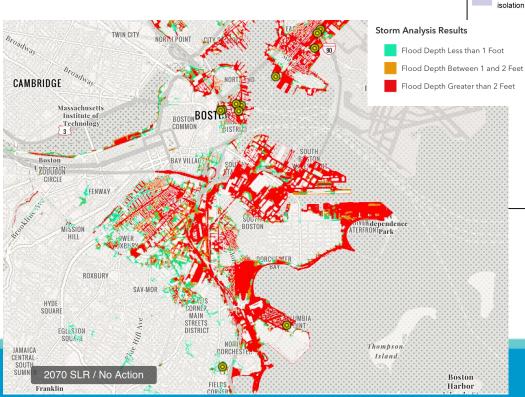
How are climate hazards changing the oil spill risk landscape?

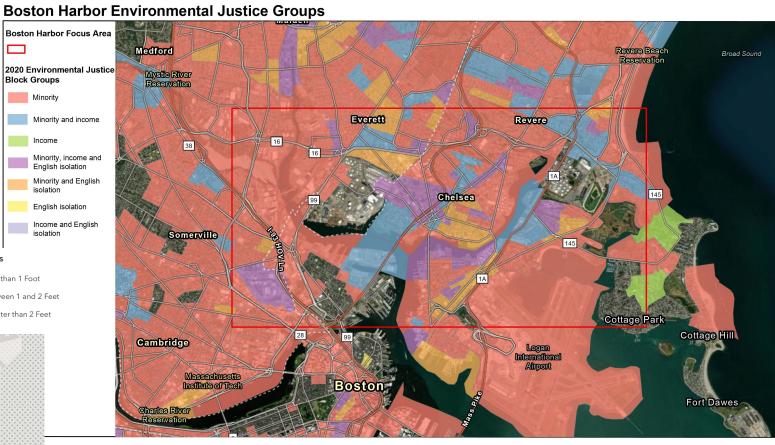
- More frequent spills during or after climate events
- Increased risk from wrecked/abandoned vessels & marine debris
- Changes to receiving environment & consequences



How are climate hazards changing the exposure to oil spills?

- Transitional risks
- Environmental justice issues



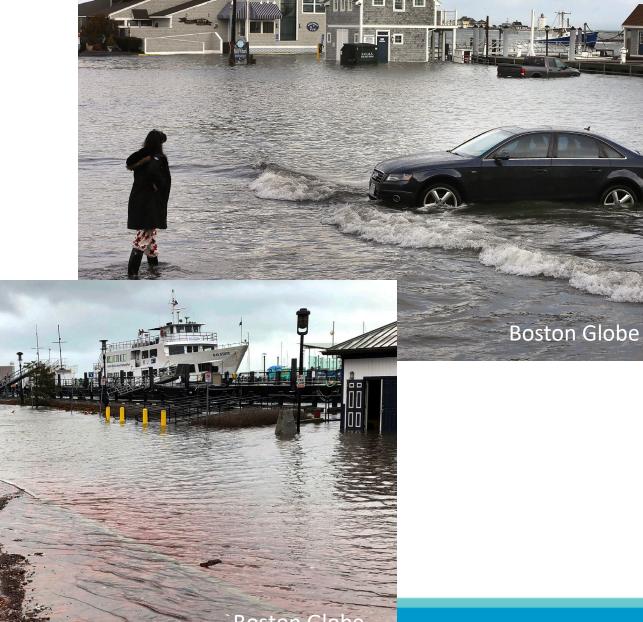


How are climate hazards impacting spill response?

• Disruptions to site access

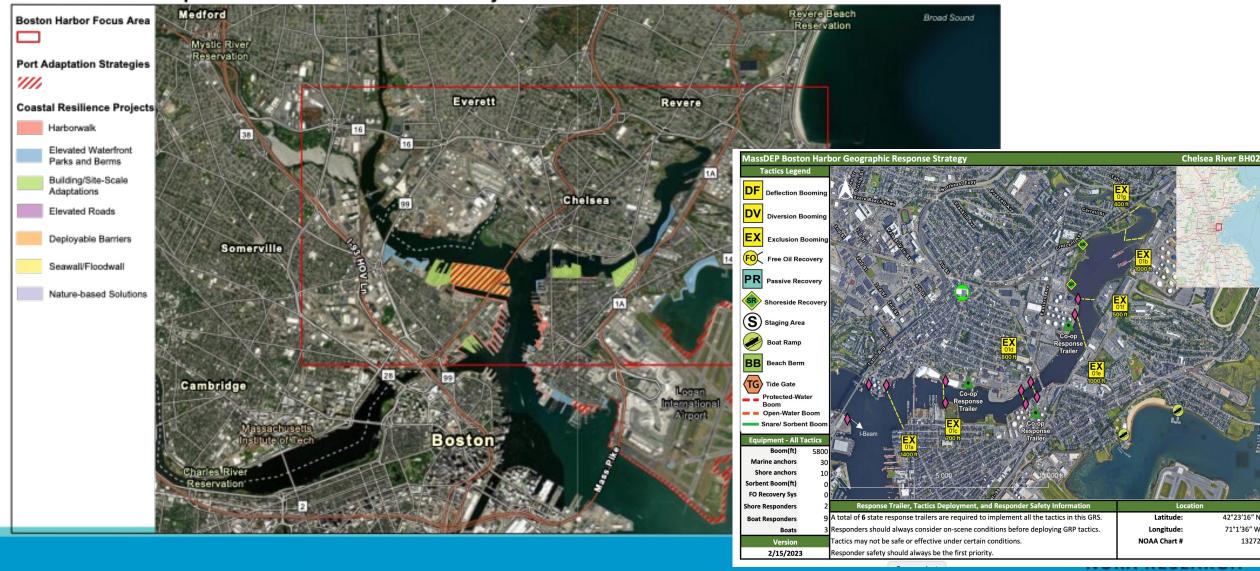
Responder safety concerns

 Increased complexity due to concurrence of emergencies



How do we build climate resilience into our oil spill plans?

Boston Harbor Adaptation and Coastal Resilience Projects



How do decarbonization strategies and targets influence oil spill risks, preparedness and response?

Carbon Emission Reduction Targets

STATE OF MASSACHUSETTS

- 2025 30 % COMPARED TO 1990 LEVELS
- 2030 50 % COMPARED TO 1990 LEVELS
- 2050 NET -ZERO (85 % REDUCTION IN TOTAL EMISSIONS)

INTERNATIONAL MARITIME ORGANIZATION

- 2030 40 % CARBON INTENSITY REDUCTION COMPARED TO 2008
- 2050 70 % CARBON INTENSITY REDUCTION COMPARED TO 2008
- 2050 50 % REDUCTION IN TOTAL EMISSIONS





Strategic Foresight helps us overcome barriers to proactive preparedness and planning in a complex and uncertain environment.

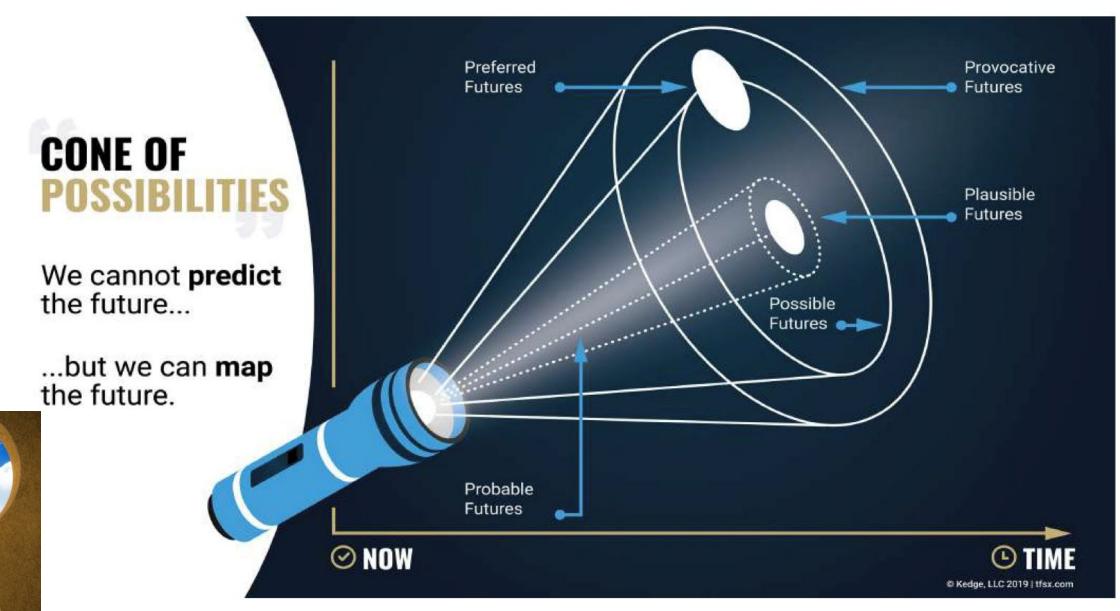
Futures Theory

Foresight Theory

Critical Futures Study

Anticipatory Intelligence

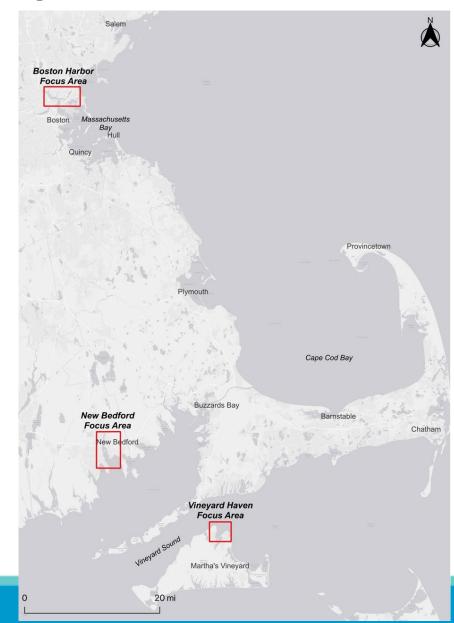
Applying Foresight: Keyhole vs. Flashlight



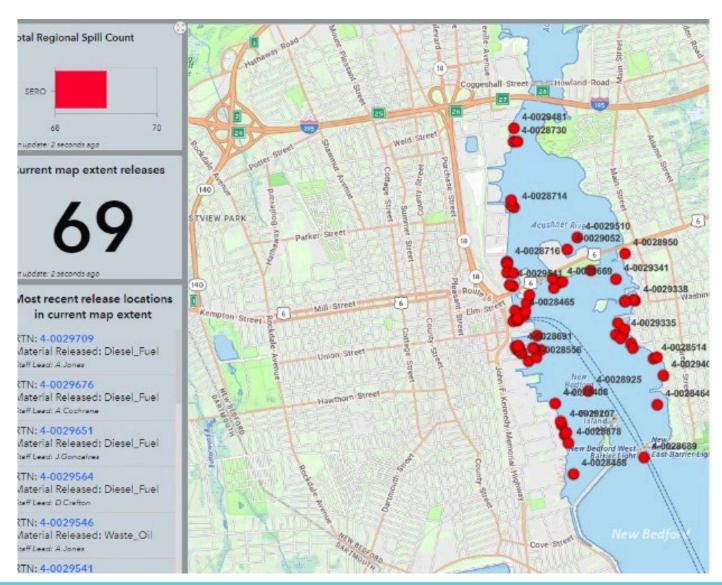


Future Scenarios Workshop

- Three geographic focus areas:
 - Boston Harbor
 - New Bedford/Fairhaven
 - Vineyard Haven
- Two tracks of scenarios:
 - Climate hazards and adaptations (2030)
 - Decarbonization (2050)
- Multiple "scenario cards" developed for each track & location
 - Small groups responded to scenario prompts
 - Report outs to larger group used to synthesize, prioritize, and identify key themes

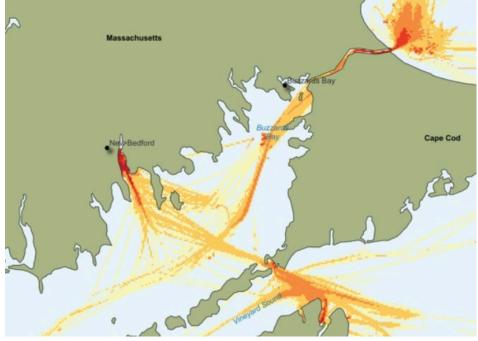


New Bedford: Risk & Resilience

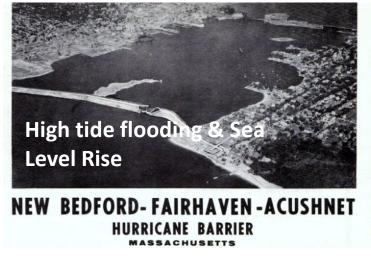




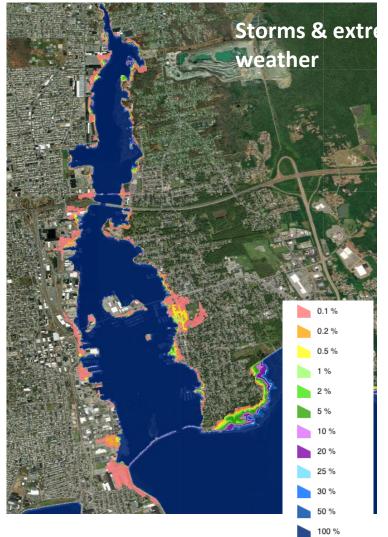


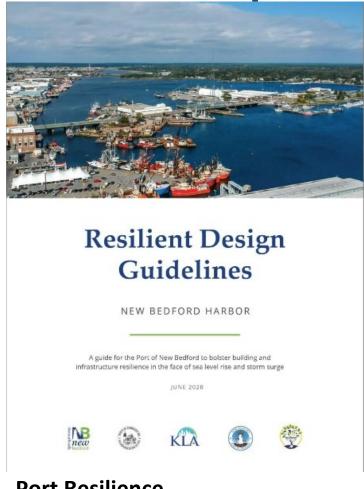


New Bedford - Climate Hazard & Adaptation Prompts



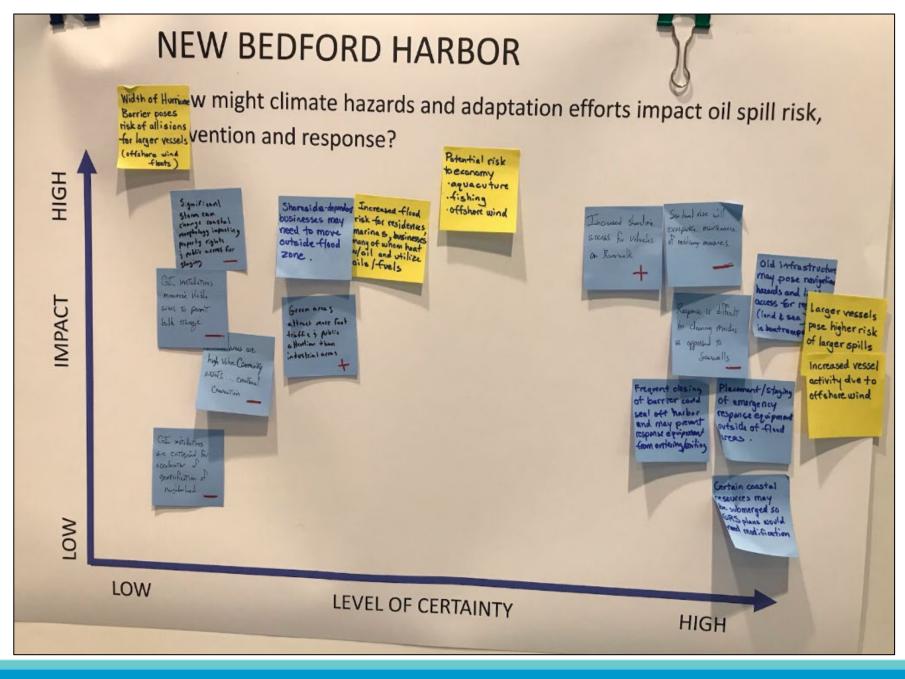






Port Resilience

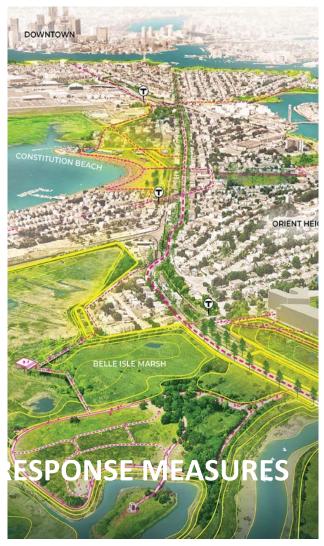
Synthesis: Risk-Certainty Matrix

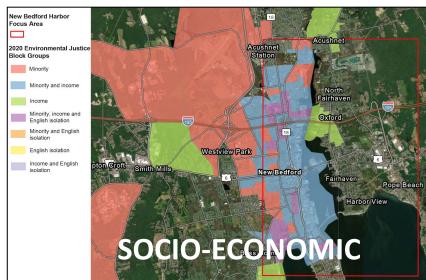


Common Themes: Hazards & Adaptations



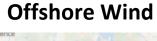






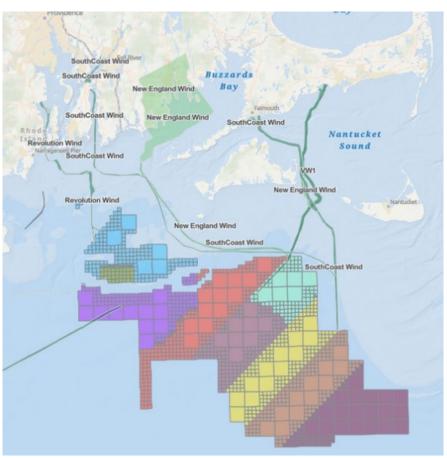


New Bedford - Decarbonization Prompts





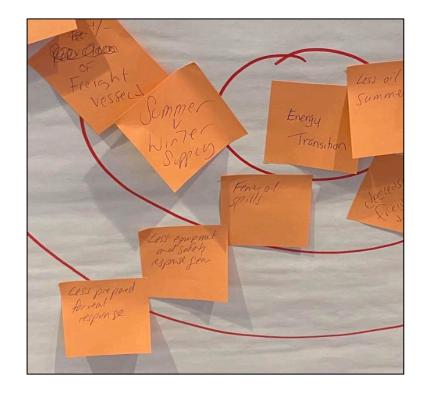
Electric Tugs & Ferries

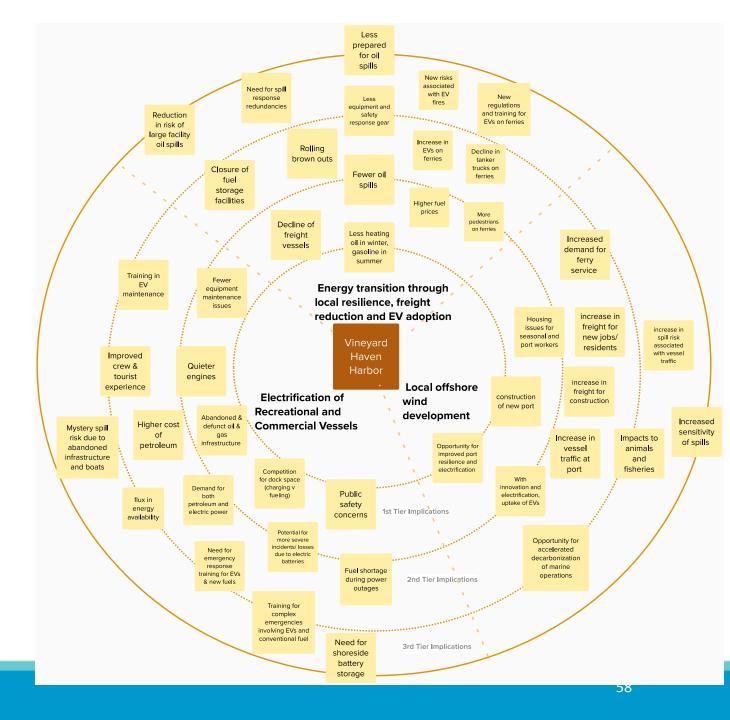




Autonomous Vessels

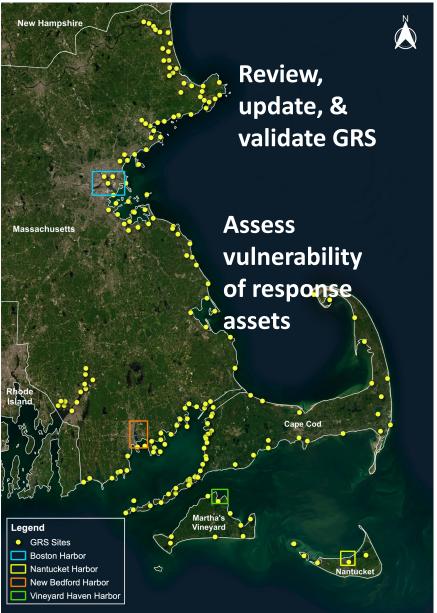
Synthesis: Futures Wheel





Mapping the Future of Climate Resilience for MOSPRA









THANK YOU!



Acknowledgements

- Massachusetts Department of Environmental Protection
- Resilience and Foresight Services
- TFSX Natural Foresight ®
- Expert Knowledge
 - Massachusetts Municipal Vulnerability Preparedness (MVP) Program
 - MassDEP Clean Energy & Climate Plan
 - South of 2 Degrees
 - Massachusetts Executive Office of Energy & Environmental Affairs
 - Massachusetts Emergency Management Agency
 - Massachusetts Oil Spill Act Advisory Council
 - MassPort
 - Massachusetts Harbormaster Association

PROGRAM REMINDERS



Millie Garcia-Serrano, MPH
Assistant Commissioner
MassDEP | Bureau of Waste Site Cleanup

Technical Assistance Grant (TAG) Funding FY25-26

- **TAG Purpose** Support effective public involvement during the assessment & cleanup of disposal sites by:
 - Assisting community and citizens' groups in obtaining expert technical assistance to understand and evaluate disposal site cleanup response actions
 - Enhancing public education about and participation in disposal site assessment and cleanup activities
- Total funding anticipated to be \$200,000; typical grant award to any individual applicant of up to \$20,000
- All application materials will be available for download on June 4, 2024 (tentative) on the TAG webpage: https://www.mass.gov/info-details/technical-assistance-grants-waste-site-cleanup
- Deadline to apply is September 6, 2024

Next WSC Meetings & Wrap-Up

- Office Hours Meeting: 9/19/24
- WSC Advisory Committee Meeting: 11/21/24
 - · Hybrid?
- "Meeting Takeaways" / Wrap Up





BWSC THANKS YOU!

Enjoy the last days of summer in New England (or wherever you are)!..

