EBC Program Series with MassDEP Leadership:
Headquarters Leadership Team
Welcome

David Young

Program Chair and Moderator

Member, EBC Board of Directors

Vice President, CDM Smith

Environmental Business Council of New England
Energy Environment Economy
Thank you to our Host & Sponsor

CDM Smith
Thank you to our Co-Hosts
Keynote Address:
Review of DEP Programs & Priorities

Martin Suuberg
Commissioner
Department of Environmental Protection
Commonwealth of Massachusetts
EBC Program Series with MassDEP Regional Offices

Commissioner Suuberg and Boston Office Leadership

January 8, 2020
Update from Commissioner Suuberg

• Overview of Agency Priorities
  – Changes at MassDEP since 2019
  – Climate Initiatives (TCI, RGGI)
  – Clean Water (PFAS, Lead)
  – Recycling
Update from the MassDEP Headquarters Leadership Team

- Stephanie Cooper, Policy and Planning
- Gary Moran, Operations & Env. Compliance
- Ann Lowery, Bureau of Planning & Evaluation
- Kathy Baskin, Bureau of Water Resources
- Paul Locke, Bureau of Waste Site Cleanup
- Christine Kirby, Bureau of Air and Waste
- Ben Ericson, General Counsel
Gary Moran, Deputy Commissioner for Operations & Environmental Compliance

• Oversees the operations of our 4 regional offices
  – Northeast – Wilmington
  – Central – Worcester
  – Southeast – Lakeville
  – Western – Springfield

• Compliance & Enforcement
• Emergency Planning and Response
• Enterprise Information Mgt Office (IT)
• Office of the Permit and Reg. Ombudsman
## Operations Contact Information

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Position</th>
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</thead>
<tbody>
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<td>Comp. &amp; Enf.</td>
</tr>
</tbody>
</table>
Stephanie Cooper
Deputy Commissioner for Policy & Planning

• Oversees regulatory and programmatic developments in MassDEP’s bureaus
  – Bureau of Planning and Evaluation
  – Bureau of Air and Waste
  – Bureau of Water Resources
  – Bureau of Waste Site Clean-up

• Grants & Assistance Programs
Regulatory Promulgation

Regulations finalized in 2019

– Massachusetts Contingency Plan – PFAS standards
– Hazardous Waste
– Mercury Added Products
– Ambient Air Quality Standards
– Asbestos (asbestos containing pipe)
– State Revolving Loan Fund
– Low Emission Vehicle Rules
2020 Planned Regulatory Changes

- Drinking Water – MCL for PFAS
- Laboratory Certification for PFAS
- The Massachusetts Contingency Plan (MCP) (Non-PFAS)
- Wetlands: Coastal Wetlands (LSCSF) and notice clarifications
- Surface Water Quality Standards
- Fees Update
- Natural Resource Damages
- Solid Waste
- Air Repair II
- GHG Reporting and Clean Energy Standard
Office of General Counsel

- Support Commissioner, Programs, Regions
- Represent MassDEP in administrative appeals
- Coordinate with Attorney General’s Office
Office of General Counsel
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Ann Lowery
Assistant Commissioner, Bureau of Planning and Evaluation

Focus:
– Cross Bureau planning and strategic initiatives – including Climate coordination
– Regulatory Promulgation
– Scientific support (ORS and WES)
– Environmental Justice
Climate Coordination

• Support for EOEEA’s statewide climate efforts
  – MVP Program
  – RMAT – implementing State Hazard Mitigation and Climate Adaptation Plan

• Internal Climate team coordination

Web: Guide to MassDEP Climate related work: 
www.mass.gov/guides/massdeps-climate-work
Scientific Support for the Agency

Office of Research and Standards (ORS)

- Scientific expertise in environmental health, toxicology, standard setting, ecological and human health risk assessment, chemistry and statistics

- Leads Health Effects Advisory Committee (recent PFAS work) and emerging contaminant workgroup
Scientific Support for the Agency

William X. Wall Experiment Station, Lawrence, MA

- Long and distinguished history since 1887 in environmental / public health research. Now a LEED certified building.
- Home to the Division of Environmental Laboratory Services (DELS) and BAW’s Air Assessment Branch, and Lab Certification Program for drinking water analysis.
- Advanced capability to analyze materials for our monitoring programs and Strike Force investigations, including fish tissue, wastewater, industrial compounds, PFAS, cyanotoxins and more.
WES / DELS Laboratories

Culturable & Molecular Microbiology

Inorganic Chemistry

Organic Chemistry
Clean Energy Results Program (CERP)

• Collaboration with DOER and CEC to support energy efficiency and renewable energy projects with MassDEP permitting, technical support and outreach assistance.

• Recent Focus:
  – Gap Funding - $4 million in grants for energy efficiency and clean energy generation at water infrastructure facilities

• Ongoing Work:
  – Anaerobic digestion, organics diversion and management
  – Solar on closed landfills
  – Renewables on contaminated sites
Water Utility Resilience Program

• Technical assistance to water infrastructure sector
• Current Focus: Assistance for mapping water systems in GIS format
• $1.3 million provided over 3 years for consultant assistance in creating
  – Detailed system maps and
  – Service area polygons of areas served by public water and sewer systems (statewide).
• Assistance provided to:
  – 73 communities
  – 120 drinking water and wastewater systems (12 participating over multiple years)
  – Website: www.mass.gov/guides/water-utility-resilience-program
Environmental Justice

• Implementing Executive Order 552 and EOEEA Policy on Environmental Justice (EJ) (2017)
• Ensuring access and meaningful opportunity to participate in decision-making.
• Recent focus on:
  – Language Access Bank resources
  – Translation and Interpretive Services
  – Connecting with EJ communities to facilitate communication
  – Training for MassDEP staff
  – Ensuring accessible public meeting/input opportunities in planning events (example: TCI) and strengthening EJ community connections
Bureau of Planning and Evaluation

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  Laboratory Director, William X. Wall Experiment Station  978-242-1314

- Michael DiBara (Michael.DiBara@mass.gov)
  Energy Project Manager  508-767-2885

- Vacant position – Director of Clean Energy Results Program

- Deneen Simpson (Deneen.Simpson@mass.gov)
  Director of Environmental Justice, Program Manager  617-292-5906

- Kristin Divris (Kristin.Divris@mass.gov)
  Water Utility Resilience Program  508-849-4028
Bureau of Air and Waste

Christine Kirby, Assistant Commissioner

Divisions:
• Air and Climate Programs
• Hazardous and Solid Waste Programs
• Business Reporting, Data, & Fiscal Operations
Bureau of Air and Waste
Air and Climate Division

• Implement Federal and Massachusetts Clean Air Acts
• Develop State Implementation Plans for criteria pollutants and regional haze
• Support stationary source air permitting
• Reduce criteria pollutants and greenhouse gases from mobile sources
• Maintain ambient air monitoring network
• Climate Strategies Group - develop and implement programs to reduce greenhouse gas emissions, support the Global Warming Solutions Act
8-hour Ozone Exceedance Days 1997-2019
Exceedances Based on 70 ppb 8-hour Standard
Massachusetts GHG Emissions Inventory

Massachusetts GHG Emissions

Million Metric Tons of CO$_2$ equivalent

Actual Emissions

Projected Emissions

1990
1995
2000
2005
2010
2015
2020

2020 Limit

70.8

74.2

93.2

100
105
95
90
85
80
75
70
65

Massachusetts GHG Emissions from Fuel Combustion

- Transportation
- Electricity Consumption
- Residential
- Commercial
- Industrial (Fuel)

Million Metric Tons of CO2 equivalent

Bureau of Air and Waste
Hazardous and Solid Waste Division

• Oversee solid and hazardous waste regulations, policy and guidance
• Oversee financial and technical assistance programs to advance municipal and commercial waste reduction/recycling
• Manage statewide Underground Storage Tank program
• Coordinate regional enforcement efforts and implement self certification programs for smaller sources of pollution
• Implement department’s responsibilities under Toxics Use Reduction program – training, reporting and enforcement
2030 SWMP Proposed Goals

30% reduction by 2030
5.7 million $\rightarrow$ 4 million tons

90% reduction by 2050
5.7 million $\rightarrow$ 570,000 tons

Reduce the toxicity of the waste stream

Figure 10.1 Projected Disposal vs. Disposal Capacity in Massachusetts (2017-2030)
Major Initiatives in SWMP

- Increased focus on source reduction and reuse
- Additional waste bans
  - Food waste lowered to ½ ton/week; textiles; mattresses
  - Increased C&E
- Municipal financial and technical assistance
- Advance EPR systems
  - Paint, mattresses, electronics
- C&D minimum performance standards
- Allow replacement municipal waste combustor capacity w/in permitted limits
Bureau of Air and Waste
Business Reporting, Data Management and Fiscal Operations Division

• Manage fiscal, reporting and data operations for BAW program
• Facilitates program productivity - providing information management, business reporting and contracting support
• Provide accurate, maintained and easily available program information
BAW Key Initiatives

- Transportation and Climate Initiative
- Regulations
- Electric Vehicle Promotion
- 2020-2030 Solid Waste Master Plan
- Volkswagen Settlement
- Recycling Markets/Grants
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Director, Air & Climate Programs
Bureau of Water Resources

**Division of Watershed Management**
- Wastewater: NPDES, Groundwater Discharge, Title 5
- Stormwater
- Water Management Act
- Watershed Planning: Water Quality Monitoring/Assessment/Standards

**Division of Wetlands & Waterways**
- Wetlands
- Chapter 91/Waterways
- 401 Water Quality Certificates

**Drinking Water Program**
- Safe Drinking Water Act
- Source Water Protection, Private Wells

**Division of Municipal Services**
- State Revolving Fund Loans/Grants
Bureau of Water Resources
Key Initiatives and Activities

- **PFAS**: Per- and polyfluoroalkyl substances
- **Lead** in drinking water at schools/daycares
- **Surface Water Quality Standards** revisions
- **Stormwater Handbook** Update: precipitation update, alignment with MS4 permit & TS4 (transportation) permit
- **Watershed monitoring** capacity building
Priority PFAS Activities

• Drinking water regulations revisions: Maximum Contaminant Level (MCL)

• Supplemental Budget
  – $4.2M for public & private supply testing, design grants
  – $10.65M to Clean Water Trust for remediation of PFAS contamination in local water systems (includes interest rate discounts) via State Revolving Fund
  – $9.05M to Clean Water Trust for improvements to local water systems via State Revolving Fund

• Monitoring of biosolids that are land applied in MA
Removing Lead from Water Supplies at Schools and Day Care Facilities

- Reduce exposure of most vulnerable (young children)
- Target early education and daycares in Environmental Justice communities
- ~$1M EPA grant to test drinking water in schools and day cares
- Authorization for $5M Clean Water Trust to support schools
- Program showcased as national model by EPA
Additional Initiatives and Activities (examples)

- Wetlands regulations for Land Subject to Coastal Storm Flowage
- Effects of mosquito spraying on drinking and recreational waters
- Proposed MS4 Permit amendments
- Water Management Act
- Title 5 workgroup
Bureau of Water Resources

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Bureau of Waste Site Cleanup (BWSC)

Preparing for...
Responding to...
Assessing...
Cleaning up...
Restoring...

Releases of Oil and Hazardous Material to the Environment
Bureau of Waste Site Cleanup (BWSC)

3 Related – Yet Distinct - Programs

- Oil Spill Prevention & Response
- Cleanup of Sites & Spills
- Natural Resource Damages
Oil Spill Prevention & Response

https://www.mass.gov/oil-spill-prevention-response-massdep

Trailers Containing 42” Foam-filled Boom

Deployment Exercise: Fall 202

New Bedford Harbor Mystery Spill Project Clean Bilge Pilot

1st Responder Training & GRP Testing Exercises
# Cleanup of Sites & Spills

https://www.mass.gov/cleanup-of-sites-spills

<table>
<thead>
<tr>
<th>Report a Spill or Environmental Emergency</th>
<th>Find Out About a Contaminated Property</th>
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<tbody>
<tr>
<td>Site Cleanup Regulations, Policies, Forms &amp; More</td>
<td>MassDEP Emergency Response</td>
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<tr>
<td>Waste Site Cleanup Advisory Committee</td>
<td>Training Opportunities</td>
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<tr>
<td>Oil &amp; Hazardous Material List</td>
<td>MassDEP Site Audit Program</td>
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<tr>
<td>Statistics on Site Cleanup Activities</td>
<td>Compendium of Analytical Methods (CAM)</td>
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<tr>
<td>Brownfields: Cleanup AND Redevelopment of Sites</td>
<td>Develop Clean Energy on Contaminated Land</td>
</tr>
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<td>Help for Homeowners</td>
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<td>MCP 5-Minute Moments</td>
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* Asterisks indicate redundant links.*
1,228 FY13 Notifications (most recent 6-yr period):

Where Are The Now?

- Permanent Solution: 81%
- Temp Solution: 1%
- ROS: <1%
- Tier 1D: 2%
- Still Working On It: 4%
- PS/TS Not Required: 12%
MCP 5-Minute Moment:
01 - Overview of the MCP Process

http://youtube.com/massdep
CONCEPT:
Short (5 minute) Video for each box...
The further down you go, the more detail you get.
MCP Revision Update

• Public Comment ended July 2019
• PFAS Rules split off – *Promulgated December 27, 2019*
  – RCs and Cleanup Standards for soil & groundwater
  – GW-1 Standard & RCGW-1 = 20 ng/L (sum of 6 PFAS)
  – Some soil standards revised higher to reflect background levels

• Remaining revisions under review
• Anticipated Spring 2020 promulgation
• Effect date 3 months later
Topics

- PFAS Standards/Notification Requirements
- Risk Assessment
  - Gardening Exposures
  - Exposure Point Concentrations
  - Hierarchy of Toxicity
  - Imminent Hazards
  - Other Method 1 Standards
- Program Coordination
  - NAULs at Federal Sites
  - UST Sites
  - Radioactive Waste
  - GW-1 Areas (Drinking Water)
- Climate Change
- Remedial Additives
- Tier Classification
- Temporary Solution Status Reports
- AEPPMMs
- AULs for LNAPL
- GPS Coordinates
- Improved Communication (Notice)
- Liquified Gasses
- Waste Deposits
Natural Resource Damages

https://www.mass.gov/natural-resource-damages-program-massdep

Development of a Standardized NRD Approach

Case-Specific NRD Assessments/Settlements

Solicitation, Funding & Implementation of Restoration Projects
Standardized Natural Resource Damages

Standardize Assessment of past & future damage: loss of use & function

$$ Settlements Pooled

Restoration Project
Restoration Project
Restoration Project
Restoration Project
Restoration Project
Bureau of Waste Site Cleanup (BWSC)

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Municipal Vulnerability Preparedness Program

Carolyn Meklenburg
MVP Regional Coordinator, Greater Boston
MA Executive Office of Energy and Environmental Affairs
Today I’ll be talking about…

**PAST:** Where did MVP come from? What have we learned from our first three years?

**PRESENT:** What’s new at MVP?

**FUTURE:** What can you expect from MVP in 2020 and beyond?
Executive Order 569 - 2016

Comprehensive approach for climate change mitigation and adaptation
- Expansion on 2008 GWSA
  - www.mass.gov/2050Roadmap
- State Adaptation Plan
- Climate Coordinators
- Agency Vulnerability Assessments
- Municipal Support

Environmental Bond - 2018

- $2.4 billion bond bill with focus on climate change resiliency
- Over $200 million authorized for climate change adaptation
- Codifies EO 569, including the MVP Program
Massachusetts State Hazard Mitigation and Climate Adaptation Plan (SHMCAP) - September 2018

- Acknowledges that climate change is already worsening natural hazards, integrating information and planning elements for 14 natural hazards that affect the Commonwealth.
- Uses best scientific data and projections to assess risk and vulnerability.
- Evaluates the Commonwealth’s existing capabilities to implement agency-specific and statewide activities to reduce risk and increase resilience.
Where did MVP come from?

**SHMCAP Implementation**

Leading by example → ResilientMA Action Team (RMAT)

First year initiatives
- Statewide resilience standards and guidance
- Resilient capital planning evaluation tool
- Action tracker
  + Templates for municipalities

State and local partnerships → Municipal Vulnerability Preparedness Program (MVP)
Municipal Vulnerability Preparedness (MVP) Program

Municipalities need financial and technical resources to prepare their residents, businesses, and aging infrastructure:

- 12,000+ culverts and small bridges needing replacement
- 1,100 municipally-owned coastal structures
- 300 high-hazard dams
- 96% DHCD housing developments to see 5.4° increase in max temperature by 2070

Where did MVP come from?
Where did MVP come from?

MVP is a community-led, accessible process that:

- Employs local knowledge and buy-in
- Utilizes partnerships and leverages existing efforts
- Reaches and responds to risks faced by EJ communities and vulnerable populations
- Is based in best available climate projections and data
- Incorporates principles of nature-based solutions
- Demonstrates pilot potential and is proactive
Define and characterize hazards using latest science and data
Identify existing and future community vulnerabilities and strengths
Develop and prioritize community adaptation actions
Determine overall priority actions
Receive MVP designation

Implement priority adaptation actions identified through planning process

Where did MVP come from?
What have we learned from our first three years?

MVP Designations
71% of the Commonwealth
249 communities

Action Grant Projects
FY 18: 37
FY 19: 36

Total Awards
$17M+ in planning and action grants to date
Stakeholder groups by % of workshops attended

- 99% City Officials
- 88% Public Safety
- 77% Civil Society
- 74% Environmental Groups
- 63% Education
- 62% Business
- 54% Elected Officials
- 51% Healthcare
- 42% Utilities (Building Management, Permitting, Construction)
- 38% State Officials
- 38% *1% of workshops did not document participant affiliation

What have we learned from our first three years?
Top Vulnerabilities

What have we learned from our first three years?

1. Stormwater Management
2. Emergency Management & Preparedness
3. Water Use/Supply
4. Natural Resources
5. Public Health & Safety
Top Priority Actions

1. Emergency Management & Preparedness
2. Stormwater Management
3. Data & Maps
4. Regulations, Zoning, & Policy
5. Power

What have we learned from our first three years?
What have we learned from our first three years?

65% of towns included nature-based solutions in their priority actions.
Nature-Based Solutions

- **Southwick**: Stream crossing replacement with upstream nature-based flood mitigation measures
- **Northampton**: Detaining, retaining, treating stormwater with green infrastructure
- **Millbury**: Green infrastructure in downtown revitalization
- **Concord**: Reforestation and municipal tree resilience
- **Essex, Ipswich, Newbury (Regional)**: Sedimentation study
- **Falmouth**: River restoration
- **Oak Bluffs**: Beach nourishment

**MVP Projects using Nature-Based Solutions**

- MVP Planning Grant/Designated Communities (2017-2019)
- MVP Regional Designation

*What have we learned from our first three years?*
Example Action Grant Projects

Mattapoisett Land Acquisition for Resilience

Purchasing 120 acres of forest, streams, freshwater wetlands and coastal salt marsh as conservation land to prevent development in vulnerable areas.
What have we learned from our first three years?

Example Action Grant Projects
Nature-Based Flood Protection, Drought Prevention, Water Quality, and Water Infiltration Techniques

Millbury

Utilizing green infrastructure like stormwater planters, bioretention bump outs, rain gardens, and other measures like porous pavers and pervious pavement to reduce heat island effects and stormwater runoff into the Blackstone River.
What have we learned from our first three years?

Example Action Grant Projects
Local Bylaws, Ordinances, Plans, and Other Management Redesigns and Retrofits

**Boston**

Developing its first ever resilient building code so that development in the future floodplain is prepared for at least three feet of sea level rise, the likely scenario by late century.

Retrofitting a major waterfront park into a legacy park that uses nature-based solutions to address climate vulnerabilities while providing important access to recreation for residents.
Conducted a detailed demographic analysis of individuals who arrived in Holyoke from Puerto Rico as a result of Hurricane Maria and develop recommendations for planning for future climate change migrants in Holyoke.

<table>
<thead>
<tr>
<th>How did the Holyoke municipal government respond to your needs? Was the response...</th>
<th>Freq.</th>
<th>Percent</th>
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<tbody>
<tr>
<td>Helpful</td>
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<td>63.4</td>
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<tr>
<td>I don’t know</td>
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<td>There was no response from this resource</td>
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<td>Total</td>
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</tr>
</tbody>
</table>

**Hampden County's Puerto Rican Population, 2017**

Table credits: Town of Holyoke, Hunter College CUNY, El Instituto UCONN
What's new at MVP?

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- **Greater CT River Valley**
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- **Greater Boston**
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- **Southeast**
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- **Berkshires & Hilltowns**
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- **Berkshires**
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- **Hilltowns**
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- **Northern**
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- **Southeast**
  - Regional Coordinator: Carrieanne Petrik – DCR Pittsfield
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MVP Regional Coordinators...
Berkshires & Hilltowns

Regional Coordinator (based in Pittsfield): Carrieanne Petrik – carrieanne.petrik@mass.gov

FY19 Planning Grants:
- Becket
- Blandford
- Chesterfield
- Cummington
- Goshen
- Great Barrington
- Lenox
- Williamsburg
- Windsor
- Worthington

FY19 Action Grants:
- Pittsfield
Greater Connecticut River Valley

Regional Coordinator (based in Springfield): Andrew Smith – andrew.b.smith@mass.gov

FY19 Planning Grants:
- Agawam
- Athol
- Barre
- East Longmeadow
- Gardner
- Greenfield
- Hadley
- Leverett
- Orange
- Royalston
- South Hadley
- Sunderland
- Templeton
- Wendell
- West Springfield
- Whateley

FY19 Action Grants:
- Belchertown
- Deerfield
- Northampton
- Southwick
- Springfield
Central
Regional Coordinator (based in Worcester): Hillary King – hillary.king@mass.gov

FY19 Planning Grants:
- Ashland
- Ayer
- Bellingham
- Douglas
- Dudley
- Fitchburg
- Franklin
- Groton
- Holliston
- Hopkinton
- Lancaster
- Leominster
- Medway
- Northborough
- Paxton
- Rutland
- Shirley
- Southborough
- Westborough

FY19 Action Grants:
- Devens
- Millbury
- Spencer
- Uxbridge

What’s new at MVP?
Northeast
Regional Coordinator (based in Lawrence):
Michelle Rowden - michelle.rowden@mass.gov

FY19 Planning Grants:
- Bedford
- Danvers
- Groveland
- Hamilton
- Lynnfield
- Maynard
- Merrimac
- Middleton
- Pepperell
- Saugus
- Tewksbury
- Tyngsborough
- Wakefield
- West Newbury
- Westford

FY19 Action Grants:
- Concord
- Essex, Ipswich
- Salem
- Salisbury
- Woburn

What's new at MVP?
Greater Boston
Regional Coordinator (based in Boston):
Carolyn Meklenburg – carolyn.meklenburg@mass.gov

FY19 Planning Grants:
- Avon
- Belmont
- Dover
- Malden
- Milton
- Needham
- Norfolk
- Norwell
- Plainville
- Stoughton
- Watertown
- Wellesley

FY19 Action Grants:
- Weston
- Westwood
- Winchester
- Boston
- Braintree
- Brockton
- Cambridge
- Dedham
- Medford
- Scituate, Cohasset
- Walpole
- Wrentham
Southeast
Regional Coordinator (based in Lakeville):
Courtney Rocha – courtney.rocha@mass.gov

FY19 Planning Grants:
- Aquinnah
- Attleboro
- Dartmouth
- Dennis
- Dighton
- Fairhaven
- Halifax
- Hanson
- Harwich
- Marshfield
- Mashpee
- Middleborough
- Plymouth

FY19 Action Grants:
- Plympton
- Seekonk
- Somerset
- Taunton
- Duxbury
- Edgartown
- Falmouth
- Mattapoisett
- Nantucket
- Oak Bluffs
- Rehoboth
- Sandwich
- Westport

What's new at MVP?
MVP Action Grants: Project Types

- Detailed Vulnerability and Risk Assessment*
- Community Outreach and Education
- Local Bylaws, Ordinances, Plans, and Other Management Measures
- Redesigns and Retrofits***
- Nature-Based Flood Protection, Drought Mitigation, Water Quality, and Water Infiltration Techniques**
- Nature-Based, Infrastructure and Technology Solutions to Reduce Vulnerability to Extreme Heat and Poor Air Quality

* Most common project type
** Second-most common project type
*** Third-most common project type

What’s new at MVP?
MVP Action Grants: Project Types Cont.

- Nature-Based Solutions to Reduce Vulnerability to other Climate Change Impacts
- Ecological Restoration and Habitat Management to Increase Resiliency

NEW IN 2019
- Energy Resilience
- Chemical Safety
- Land Acquisition for Resilience
- Subsidized Low-Income Housing Resilience Strategies
- Mosquito Control Districts
+ Expanded eligibility of project location
What can you expect from MVP in 2020 and beyond?

Program Improvements

✓ Refined MVP Action Grant Project Types
✓ Municipal Workshops and Trainings
✓ MVP Website Additions (including Action Grant case studies + toolkits)
Bill S.10:
An Act for Climate Change Adaptation Infrastructure Investments in the Commonwealth

- Proposed new source of revenue for loans, grants, and technical assistance to municipalities and regional partnerships for priority adaptation projects
  - Proposed deeds excise increase → est. $137M annually ($1B in ten years)
  - Recurring, long-term revenue stream for multi-year project feasibility
Moderated Discussion

Moderator: David Young, *CDM Smith*

Panelists:
- Martin Suuberg, *Commissioner*
- Kathy Baskin, *Bureau of Water Resources*
- Stephanie Cooper, *Policy and Planning*
- Ben Ericson, *General Counsel*
- Christine Kirby, *Bureau of Air and Waste*
- Ann Lowery, *Bureau of Planning & Evaluation*
- Paul Locke, *Bureau of Waste Site Cleanup*
- Carolyn Meklenburg, *Massachusetts EEA*
- Gary Moran, *Operations & Env. Compliance*
EBC Program Series with MassDEP Leadership:

Headquarters Leadership Team