

CONNECTICUT INTERAGENCY PFAS TASK FORCE

August 28, 2019

1:30-3:00 pm

Hearing Room 1-D, Legislative Office Building

Led by the

DEPARTMENT *of* PUBLIC HEALTH

DEPARTMENT *of* ENERGY AND ENVIRONMENTAL PROTECTION

CONNECTICUT DEPARTMENT *of* PUBLIC HEALTH



Agenda

- Welcome & Introductions
- Communicating PFAS: Caroline Baisley, Greenwich Director of Health
- Committee Reports
 - Human Health
 - Pollution Prevention
 - Remediation
- Task Force Discussion
- Public Comment

PFAS

August 28,
2019



Welcome & Introductions

Welcome Self Introduction – Task Force Members

PFAS

August 28,
2019



Communicating PFAS: Lessons From Greenwich

Caroline Baisley

Director of Health
Greenwich Health Department

PFAS

August 28,
2019



Committee Reports

Human Health

Minimize human health risk and work to prevent human exposure

PFAS

August 28,
2019



Topic 1: PFAS Testing

Major Points:

- Testing of all potential human exposure sources especially drinking water
- Laboratory capacity at Yale, UCONN, CT Agriculture Experiment Station
- Pros and cons of biomonitoring were discussed

Proposed action items:

- Testing Public Drinking Water
- Evaluation of laboratory capacity

August 28,
2019



Topic 5: Proactive Education, Outreach & Communication

Major Points:

- Provide public with clear, understandable information
- CT State agencies should be aware of other states' actions
- Holistic approach to addressing exposure

Proposed action items:

- Publish clear and understandable information
- Periodic updates from State Agencies on status of plan

August 28,
2019



Topic 2: Consider Need for Standards

Major Points:

- Focus on whether and how to establish standards for public drinking water
- Cross-cutting discussion of standards for surface water, air, biosolids (Remediation)
- Science-based decision making

Proposed action items:

- DPH review of drinking water action level for PFAS
- Safe drinking water advisory council

August 28,
2019



Topic 3: Technical Assistance and Health Education

Major Points:

- Partnerships are important in crafting unified message
- Communication with the public needs improvement
- Private well location database is needed

Proposed action items:

- Possible creation of public notice / communication template
- Possible development of Public Outreach Team

August 28,
2019



Topic 4: Identify Topics where Community Engagement and Health Education is Needed

Major Points:

- Utilization of and message alignment with Local Health
- Distribution of peer-reviewed journals to ease consumer concerns
- Public comment period

Proposed action items:

- Develop Team Approach

August 28,
2019



Topic 6: Identify PFAS Research Gaps in any other areas discussed

Major Points:

- Firefighter exposure to PFAS
- Research into new formulations of, destruction of, fate and transport of PFAS
- Data on background levels of PFAS

Proposed action items:

- Continue to identify gaps & gather and share information across states and regions to share publically

August 28,
2019



Ideas for Further Discussion

Major Points:

- Consumer product research
- Communication with the public, and State and University laboratories
- Air emissions and surface water impacts
- Action levels, MCLs, economic impacts
- Bottled Water Testing
- Public comment period

August 28,
2019



August 28,
2019

CT Interagency PFAS Task Force:
Human Health Committee

8/16/2019

Topic 1: Need for testing/monitoring potential sources of human exposure such as drinking water (public and private), bottled water, fish, shellfish, agricultural products and consumer products

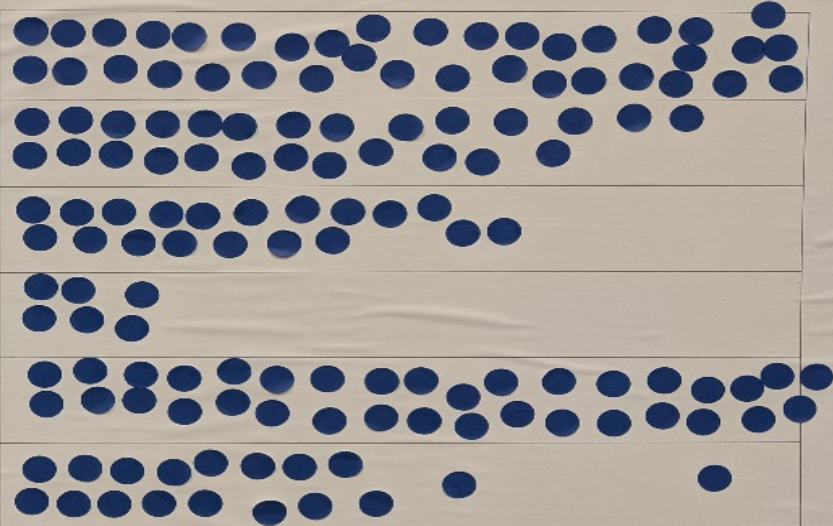
Topic 2: Consider the need for standards or advisories for drinking water, surface water, biosolids, air emissions, and consumer products

Topic 3: Technical assistance and health education for stakeholders such as private well owners, local health departments, drinking water systems and others

Topic 4: Identify topics where community engagement and health education is needed, such as education about PFAS-containing consumer products

Topic 5: PFAS Education, Outreach and Communication (proactive prevention)

Topic 6: Identify PFAS research gaps in any of the areas discussed this afternoon



PFAS



Human Health Committee Summary

Topic 1

- PFAS Testing
- 37 votes

Topic 4

- Community Engagement
- 6 votes

Topic 2

- Standards
- 26 Votes

Topic 5

- Proactive Education
- 35 Votes

Topic 3

- Technical Assistance
- 19 Votes

Topic 6

- Research Gaps
- 18 Votes

PFAS

August 28,
2019

Committee Reports

Pollution Prevention

Minimize future releases of PFAS to the environment

PFAS

August 28,
2019



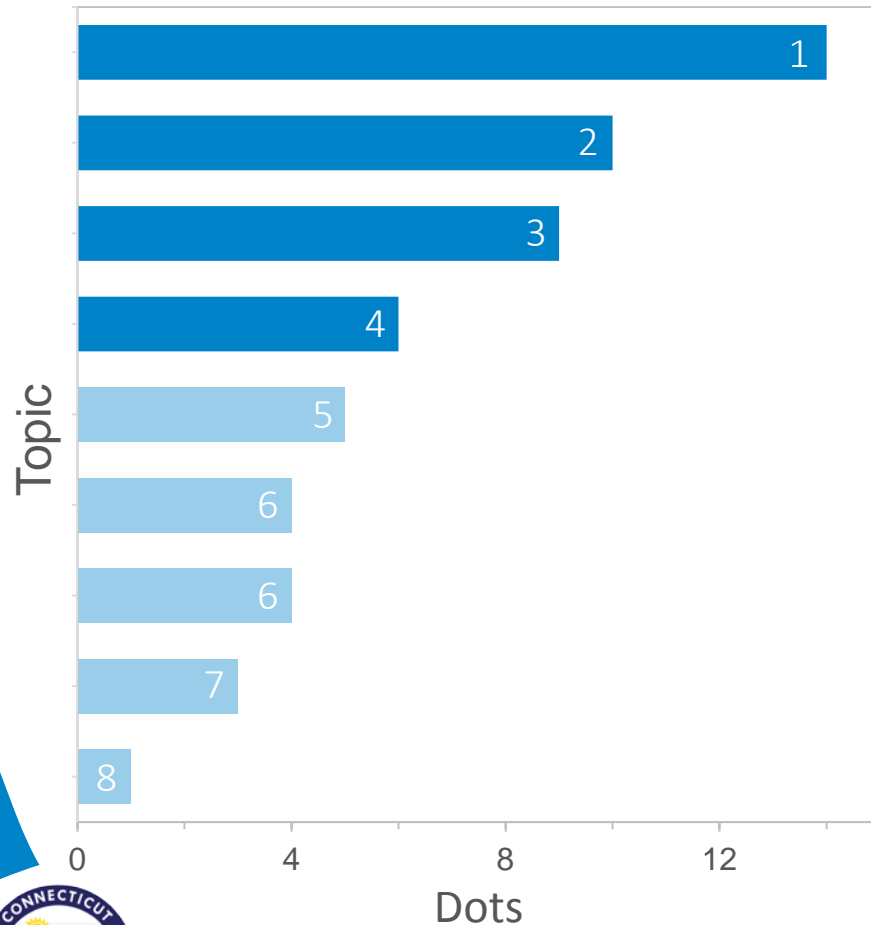
Pollution Prevention Committee

- **Mission:** Minimize future releases of PFAS to the environment
- Co-chairs – Peter Zack, DEEP, and Jeff Morrissette, DESPP
- Met August 15, 2019
- 44 Attendees representing:
 - DEEP, DESPP, DPH, OAG, OPM, CAA, UCONN, Military, environmental consultants, attorneys, industry, water companies, fire departments, environmental advocacy, directors of health, municipalities, councils of governments

August 28,
2019



Pollution Prevention - Dot poll results



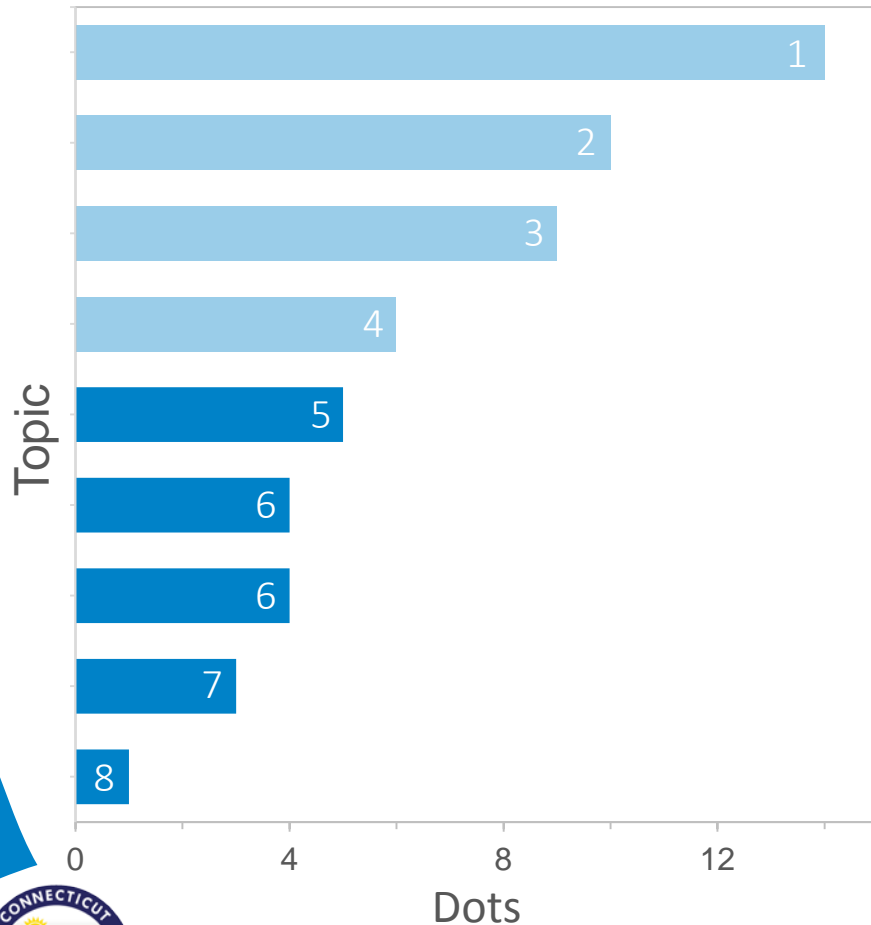
- ① Education, outreach, and communication [14 votes]
- ② PFAS in domestic and industrial wastewaters [10 votes]
- ③ Best management practices for handling and disposal of deployed AFFF and associated impacted media [9 votes]
- ④ Permitting of PFAS-containing wastewaters [6 votes]

PFAS

August 28, 2019



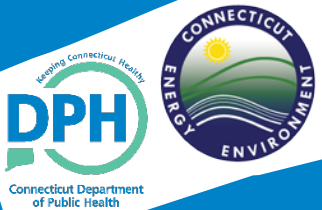
Pollution Prevention - Dot poll results



- ⑤ Determine universe of potential PFAS sources (including but not limited to consumer products such as microwave popcorn bags, paper products, etc.) [5 votes]
- ⑥ Irrigation of agricultural land using surface waters potentially impacted by PFAS [4 votes]
- ⑥ Alternatives to AFFF [4 votes]
- ⑦ AFFF take-back program [3 votes]
- ⑧ Alternatives to PFAS [1 vote]

PFAS

August 28, 2019



Pollution Prevention - Dot poll results

Additional topics (no dot poll responses)

- Inventory of AFFF concentrate within state government and local fire departments
- Protocols for responsible AFFF use
- Proper storage of AFFF concentrate until a new product is available
- Biosolid application in agriculture as a soil amendment/fertilizer

August 28,
2019



Pollution Prevention Committee

- Extensive discussion on AFFF
 - Initial results from DESPP AFFF inventory:
 - Approx. 24,000 gallons stored at 110 fire departments (out of 320 total FDs in state)
 - Approx. 15,000 gallons in hangar facilities
 - Approx. 8,000 gallons in regional foam trailer program
 - Support for future take-back program
 - Cost to be determined (e.g., MA DEP spent \$125,500 to dispose of 18,800 gallons)
- Additional demonstrations of AFFF alternatives on Sept. 10, summary report from DEEP/DESPP to follow

August 28,
2019



Pollution Prevention Committee

- Extensive discussion on AFFF (continued)
 - Support for future legislation limiting use
 - Connecticut Airport Authority
 - Also researching AFFF alternatives, in conversation with the National Fire Protection Association (NFPA), will update Committee on any progress
 - Training with water/dye mixture instead of AFFF as of April 2019, with permission of FAA
- Military
 - Secretary of Defense established a PFAS Task Force. CT Military Dept. will provide updates.

August 28,
2019



Pollution Prevention Committee

- Consumer Products
 - American Chemistry Council to share information on PFAS content of consumer products (imported and produced domestically)
 - Food-contact packaging - need more information and discussion regarding safety of short-chain PFAS (cross-over with Human Health Committee)
- Wastewater discharges – needs more discussion

PFAS

August 28,
2019



Pollution Prevention Committee

- Education, outreach, and communication
 - DEEP/DESPP outreach to local FDs regarding AFFF use
 - Other needs:
 - Public education on wastewater treatment plant and biosolids incinerator operations (i.e., not designed to treat PFAS)
 - Consistent messaging to local health and fire departments on PFAS risk communication and notification when emergency incidents occur
 - Outreach/education to industries that use PFAS (e.g., chemical industries, metal platers, car washes)

August 28,
2019



Pollution Prevention Committee

- Follow-up items
 - DEEP/DESPP to update on AFFF alternatives assessment and AFFF inventory survey responses
 - Next meeting: more discussion on wastewater discharges
- Next meeting – Wednesday, September 11, 1:30 – 3:30 pm, DEEP Gina McCarthy Auditorium

August 28,
2019



Committee Reports

Remediation

Identify, assess, and clean up historic releases of PFAS to the environment

PFAS

August 28,
2019



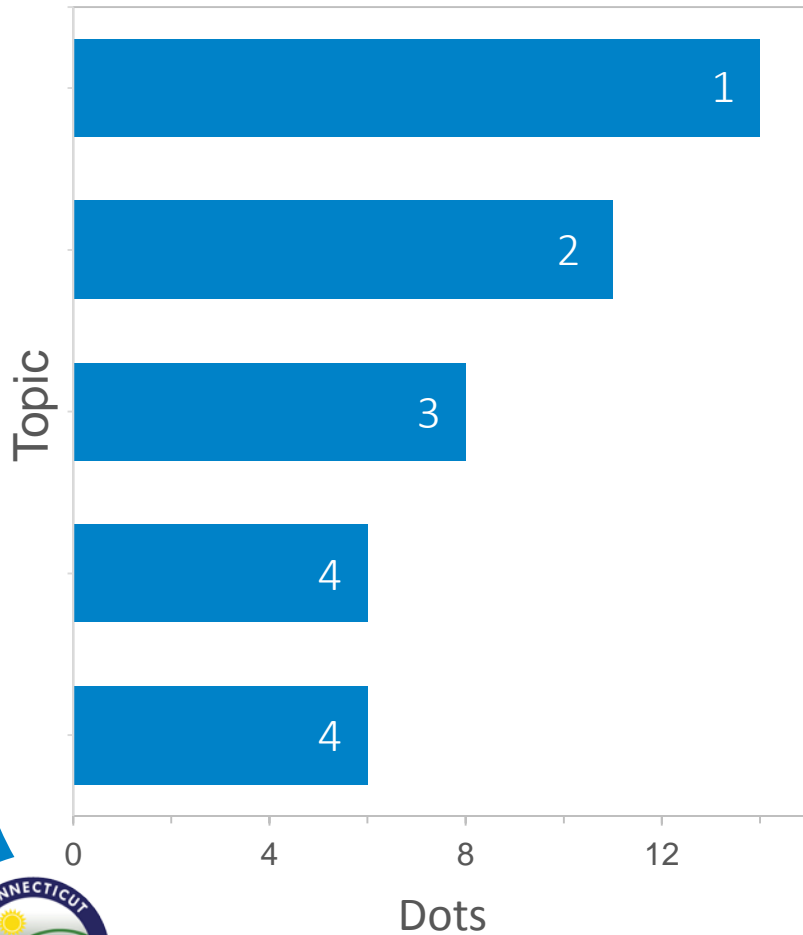
Remediation Committee

- **Mission:** Identify, assess, and clean up historic releases of PFAS to the environment
- Co-chairs – Ray Frigon, DEEP, and Rob McCarthy, LEP, EnSafe
- Met August 16, 2019
- 51 Attendees representing:
 - DEEP, DPH, CAA, DAS, DOT, OAG, CAES, Military, environmental consultants, attorneys, academia, water utilities, fire departments, health departments, environmental advocacy, industry, laboratories

August 28,
2019



Remediation - Dot poll results



- ① Determine universe of potential sites (firefighting training areas, airports, landfills, PFAS industries, etc.) [14 votes]
- ② Cleanup standards and Significant Environmental Hazard Notice [11 votes]
- ③ Education, outreach, and communication [8 votes]
- ④ Evaluate background concentrations in our environment: surface water, groundwater, air, soil, sewage (influent/treated effluent) [6 votes]
- ④ Evaluate cleanup options for environmental media [6 votes]

August 28, 2019



Remediation Committee

- Universe of potential PFAS sites—compiled comprehensive list
- Utilize existing databases and GIS systems to identify and evaluate potential risks and receptors
- Landfills – PFAS testing needed, consideration regarding affordability of testing, prioritization based on risk to receptors, what to do if found?
- Groundwater sampling at Remediation sites – what to do, identifying responsible parties can be a challenge

August 28,
2019



Remediation Committee

- Evaluation of existing PFAS concentrations in different environmental media, especially surface water.
 - How many compounds to test for?
 - Consistent lab methods and sampling protocol lacking for media other than drinking water
 - Could potentially use surface water and groundwater quality classifications to prioritize sampling
 - Frequency of sampling
 - Clean-up goals

PFAS

August 28,
2019



Remediation Committee

- Sampling Strategy Subcommittee
 - Met August 21 (4 LEPs, 3 DEEP staff)
 - Goal – develop comprehensive conceptual sampling strategy for soil, sediment, and surface water statewide
 - Follow up meeting August 28, 3 pm, DEEP Conference room 2B

August 28,
2019



Remediation Committee

- Incorporate PFAS testing into existing permits or sampling programs such as stormwater, where possible
- Wastewater Treatment Plant evaluation of influent and effluent
 - Identify upstream sources and dischargers
 - Discharge limits
- Biosolids – primarily incinerated in CT, but PFAS not expected to break down at temperatures employed
- Soil remediation options limited

August 28,
2019



Remediation Committee

- Education/Outreach/Communication
 - VT DEC - Bennington lessons learned on risk communication
 - Suggest flyers be distributed to residents when there is an incident, need for larger signage at rivers
 - Need for clear chain of command when there is an incident. Who should public contact for information?
 - Need for broad education of public about our evolving understanding of emerging contaminants

August 28,
2019



Remediation Committee

- Homework assigned/follow-up items
 - Outreach to NH DES about types of sites
 - Outreach to VT DEC about risk communication
 - Sampling Strategy Subcommittee – recommendations to be provided
- Next meeting – September 12, 9:00-11:00 am, DEEP Gina McCarthy Auditorium

August 28,
2019



Task Force & Committee Actions



PFAS

August 28, 2019



TASK FORCE DISCUSSION

PFAS

August 28,
2019



PUBLIC COMMENT

Please identify yourself and speak into the microphone

August 28,
2019



UPCOMING MEETINGS

Human Health Committee: 9/10/19, 1:00-3:00 Hearing Room 1D, LOB

Pollution Prevention Committee: 9/11/19, 1:30-3:30, Gina McCarthy Auditorium, DEEP

Remediation Committee: 9/12/19, 9:00-11:00, Gina McCarthy Auditorium, DEEP

Task Force Meeting: 9/18/19, Hearing Room 1-D, Legislative Office Building

PFAS

August 28,
2019

