

#### Massachusetts Residuals and Biosolids

- WWTP residuals in MA managed by landfilling, incineration, or land application.
- Land application has been an important option for beneficial reuse of biosolids in MA for many years
- Gathering more information on PFAS



#### DRAFT MASSACHUSETTS SLUDGE SURVEY 2018\*

Estimated Sludge Leaving WWTFs in 2018= 180,800 dry tons

\*Report funded by Massachusetts Clean Energy Center and developed by NEBRA. Final report expected soon.



# MassDEP Residuals, Approvals of Suitability (AOS) per 310 CMR 32.00

- 310 CMR 32.00 Regulations for Land Application:
  - Classify Residuals for Land Application;
  - Include metals and PCB limits
  - Pathogen reduction (stabilization)
- AOS issued/renewed every 5 years



# MassDEP Residuals, Approvals of Suitability (AOS) per 310 CMR 32.00

- Approximately 140,000 dry tons applied to the land (MA) in 2018
- 29 AOS holders (both in-state and shipped from out of state)
  - Wastewater treatment plant sludge
  - Water treatment plant sludge
  - Paper fiber product



### MassDEP Residuals PFAS Policy

- As of January 1, 2019 all new or renewed AOS's include annual PFAS monitoring for 9 PFAS compounds.
- Require testing of solid product and liquid leachate using the Synthetic Precipitation Leaching Procedure (SPLP)
  - MassDEP must review and approve of the laboratory Standard Operating Procedures (SOPs)



#### MassDEP Residuals PFAS Add'l Info

- Currently SOP's from 1 laboratory approved for PFAS. SOPs for 2 others under review.
- Approved SOPs
  - MassDEP can share with facilities (AOS holders) the labs for which have approved SOPs



#### MassDEP Residuals PFAS Add'l Info

- MassDEP is not currently working toward setting a limit for PFAS in residuals.
  - Gathering Information
  - Discussing with other states, facilities producing residuals, and NEBRA
  - If MassDEP sets limits for PFAS in the future, this would be done through changes to the 310 CMR 32.00 regulations, which would include a public process



### MassDEP Residuals More Information

- MassDEP Residuals Contact:
  - Jennifer Wood
  - Jennifer.Wood@mass.gov
  - **•** (617) 654-6536
- Northeast Region AOS
  - Kevin Brander
  - Kevin.Brander@mass.gov
  - **•** (978) 694-3236