

NDDEQ PFAS Workgroup

PFAS Workgroup

ND Dept. of Environmental Quality

Division of Water Quality, Division of Waste Management, and Division of Municipal Facilities



PFAS - The Beginnings at NDDEQ

- 2009
 - EPA issued a Health Advisory Level (HAL)
 - PFOS = 200 ppt
 - PFOA = 400 ppt
- 2013-2015
 - Third Unregulated Contaminant Monitoring Rule (UCMR 3)
 - Monitoring for PFOS, PFOA, PFBS, PFHxS, PFHpA, and PFNA
 - Reporting levels at 30 or 40 ppt depending on the analyte
- 2016
 - EPA issued updated HAL
 - PFOS + PFOA = 70 ppt
- 2018
- Dakota
 Be Legendary:

 Creation of Environmental Quality
 - Creation of NDDEQ PFAS Workgroup

PFAS Assessment 2018

- 67 samples from sites including:
 - Drinking Water Systems
 - Fire Training Areas
 - Landfills
 - Wastewater Treatment Systems
- Analysis Method:
 - EPA 537 Rev 1.1 modified
 - 32 compounds

- Commonly detected analytes:
 - PFOA
 - PFOS
 - PFBA
 - PFHpA
 - PFHxA



PFAS Assessment 2020 - Drinking Water Only

- 56 samples
- Analysis Method
 - EPA 531.1 Drinking Water
 - 18 Analytes
- 3 trace detections

Detectable Results Summary				
Client Sample ID:		VICE 108	1.0000.000	
Lab Sample ID: 32001921017-A EPA 537.1	Parameter PFHxS	Result 2.14	Units ng/L	J
Client Sample ID:				
Lab Sample ID: 32001921018-A	Parameter	Result	Units	
EPA 537.1	9CI-PF3ONS	8.33	ng/L	
Client Sample ID:				
Lab Sample ID: 32001921046-A	Parameter	Result	Units	
EPA 537.1	PFuNA	0.485		J



PFAS Assessment 2021

- 109 samples from sites including:
 - Drinking Water Systems
 - Landfills
 - Wastewater Facilities
 - Industrial Facilities
 - Groundwater
 - Biosolids
- Analysis Methods:
 - EPA Method 537.1 for drinking water samples
 - PFAS by ID 36 (Minnesota approved method) for non-drinking water samples and biosolids

- Commonly detected analytes:
 - PFBA
 - PFHxA
 - 6:2 FTS
 - PFPeA
 - PFOS

- PFBS
- PFOA
- PFHxS
- PFHpA



PFAS Update 2022

- EPA issued updated HAL
 - Interim
 - PFOA = 0.004 ppt
 - PFOS = 0.02 ppt
 - Final
 - PFBS = 2000 ppt
 - GenX = 10 ppt



PFAS Assessment 2023

- 178 samples from sites including:
 - Landfills
 - Wastewater Facilities
 - Industrial Facilities
 - Groundwater
 - Biosolids
 - Surface Water
 - Fish Tissue
- Analysis Method
 - EPA Draft 1633
 - 40 compounds

- Commonly detected analytes:
 - PFHpA
 - PFHxA
 - PFOS
 - PFOA
 - PFPeA

- PFBS
- PFBA
- PFDA
- PFNA



Environmental Quality

Sampling Summary

- 410 samples
- Sampling sites have included:
 - Drinking Water Systems
 - Fire Training Areas
 - Landfills
 - Wastewater Facilities
 - Industrial Facilities
 - Groundwater
 - Biosolids
 - Surface water
 - Fish Tissue

- Key highlights
 - Most source drinking water systems have been tested
 - Trace or no PFAS detections
 - Various media have been sampled
 - water, soil, biosolids, fish tissue
 - Geographic coverage across North Dakota
 - PFAS has been detected in areas expected
 - · Fire training areas that used AFFF
 - Landfills
 - Biosolids and wastewater



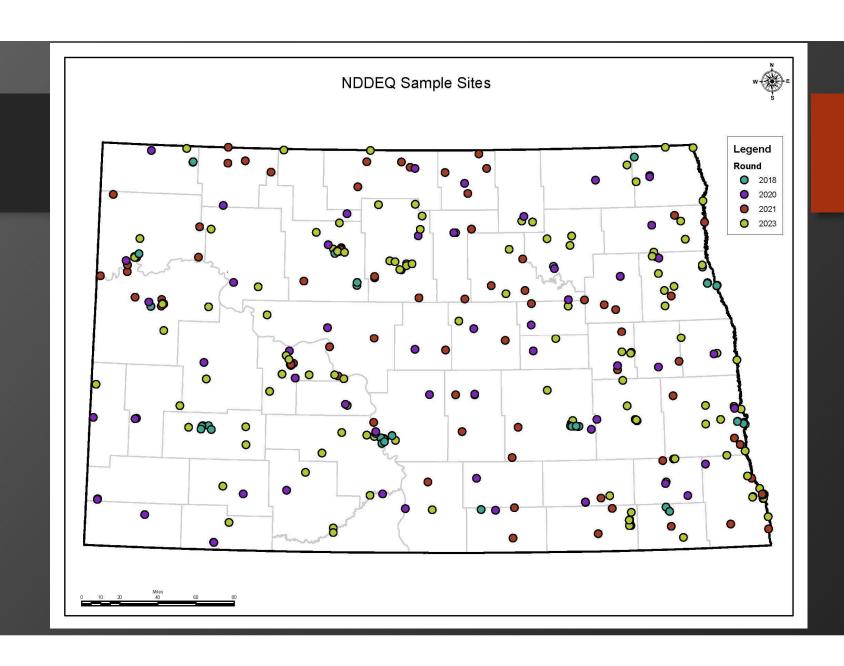
Next Steps

- UCMR 5
 - 2023 2025
- Continued Sampling with focus on:
 - Industrial Facilities
 - Biosolids
 - Fish Tissue

- Drinking Water Maximum Contaminant Level (MCL) - Proposed

 - PFOS = 4 ppt
 - PFOA = 4 ppt
 Hazard Index = 1
 - PFNA
 - PFHxS
 - PFBS
 - GenX
- Under proposed rule, ND would not have any drinking water violations





NDDEQ PFAS Workgroup Contacts

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Surface Water

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Surface Water



604(b) Program

- Assessment funding available for general water quality concerns (Nutrients, E. coli, TSS) and emerging contaminants (PFAS, HABs)
 - Can also be used to assess climate resilience, environmental justice and equity concerns to inform workplan development
- Funds available annually
- Average project funding awarded ~\$20,000
- Rolling application Contact Emilee Novak (<u>ejnovak@nd.gov</u>) directly
 - Best time: January March (New funding typically available in June)



