

**Minnesota House Capitol Investment Committee
and
Minnesota Environment Finance and Policy Committee**

February 28, 2024

Abigail Hendershott

MPART - Executive Director

HendershottA@Michigan.gov

616-888-0528

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

Agenda

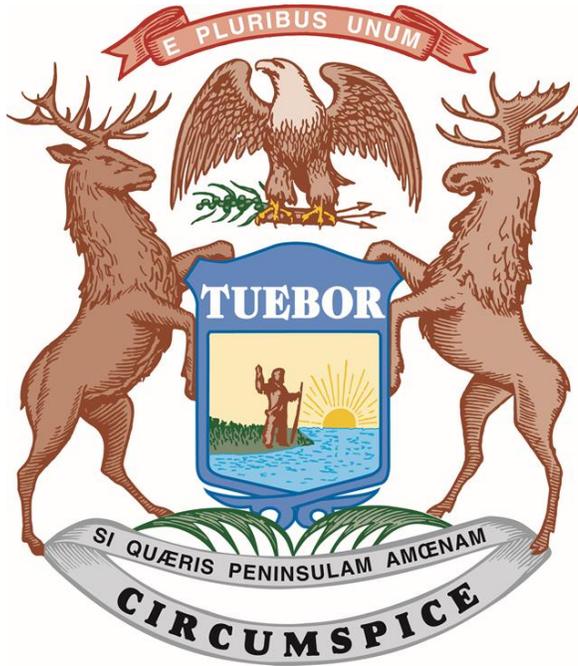
- **What is MPART**
- **Michigan collaboration structure**
- **Funding**
- **Looking Forward**



MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

Michigan PFAS Action Response Team (MPART)

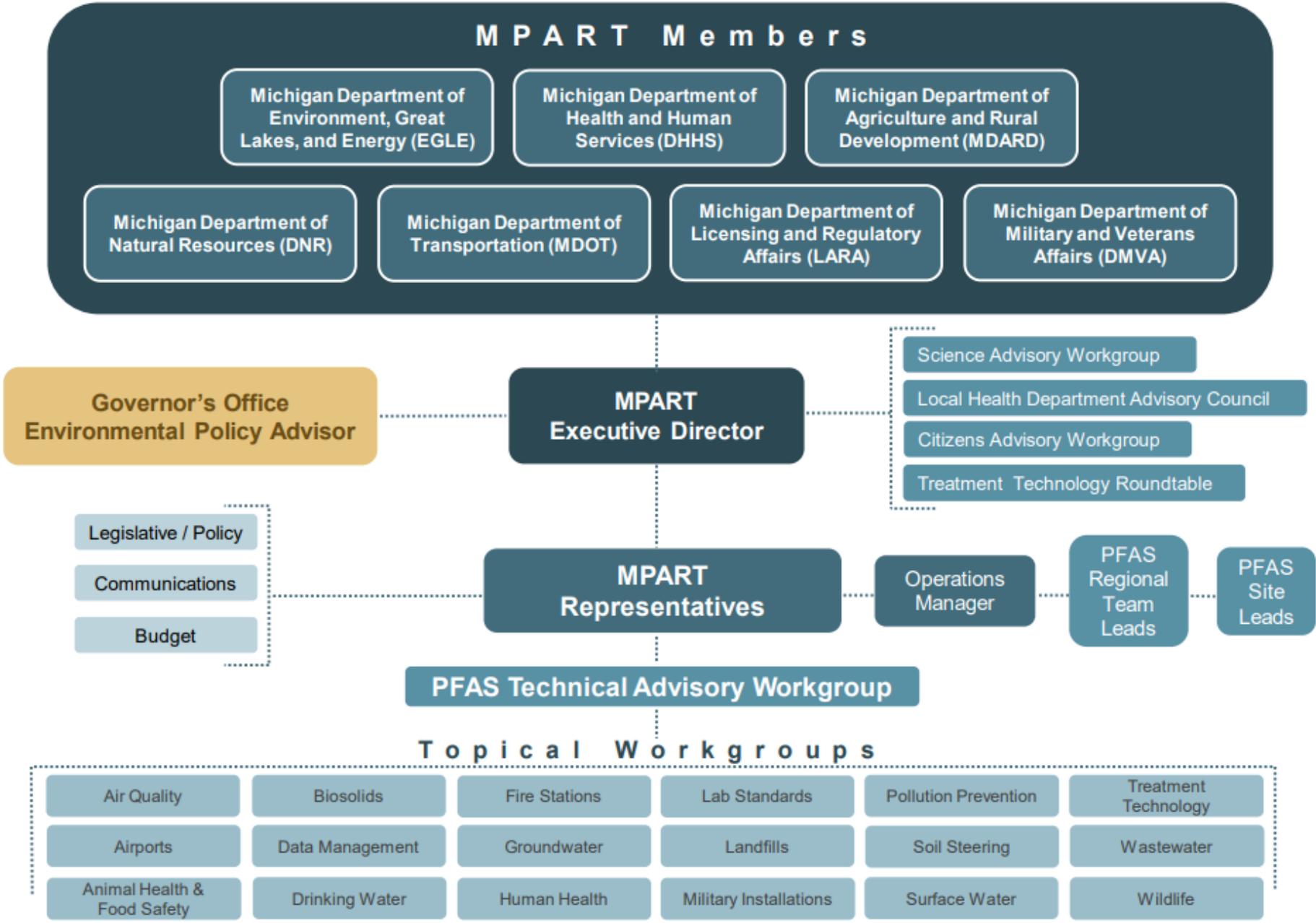


- Executive Directive 2017
- [Executive Order 2019-03](#) by the Governor
- Unique Multi-Agency Approach
- Leads Coordination and Cooperation Among All Levels of Government
- Directs Implementation of State's strategy

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

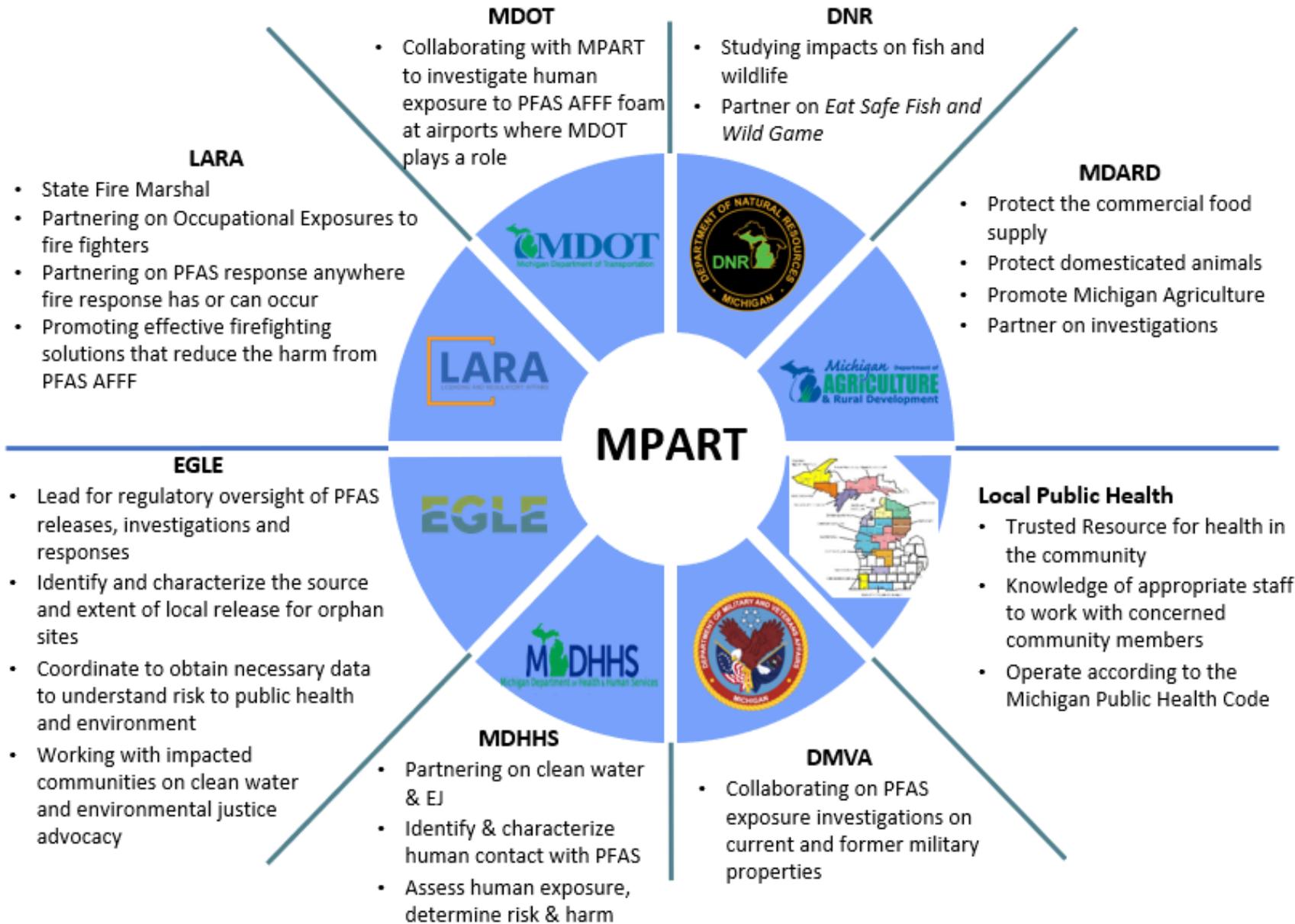
MPART Coordination Structure



Key Notes:

- MPART has 4 staff
- Approximately 400 staff are involved in PFAS work across the departments
- All work is done through the departments

MPART Coordination of Roles

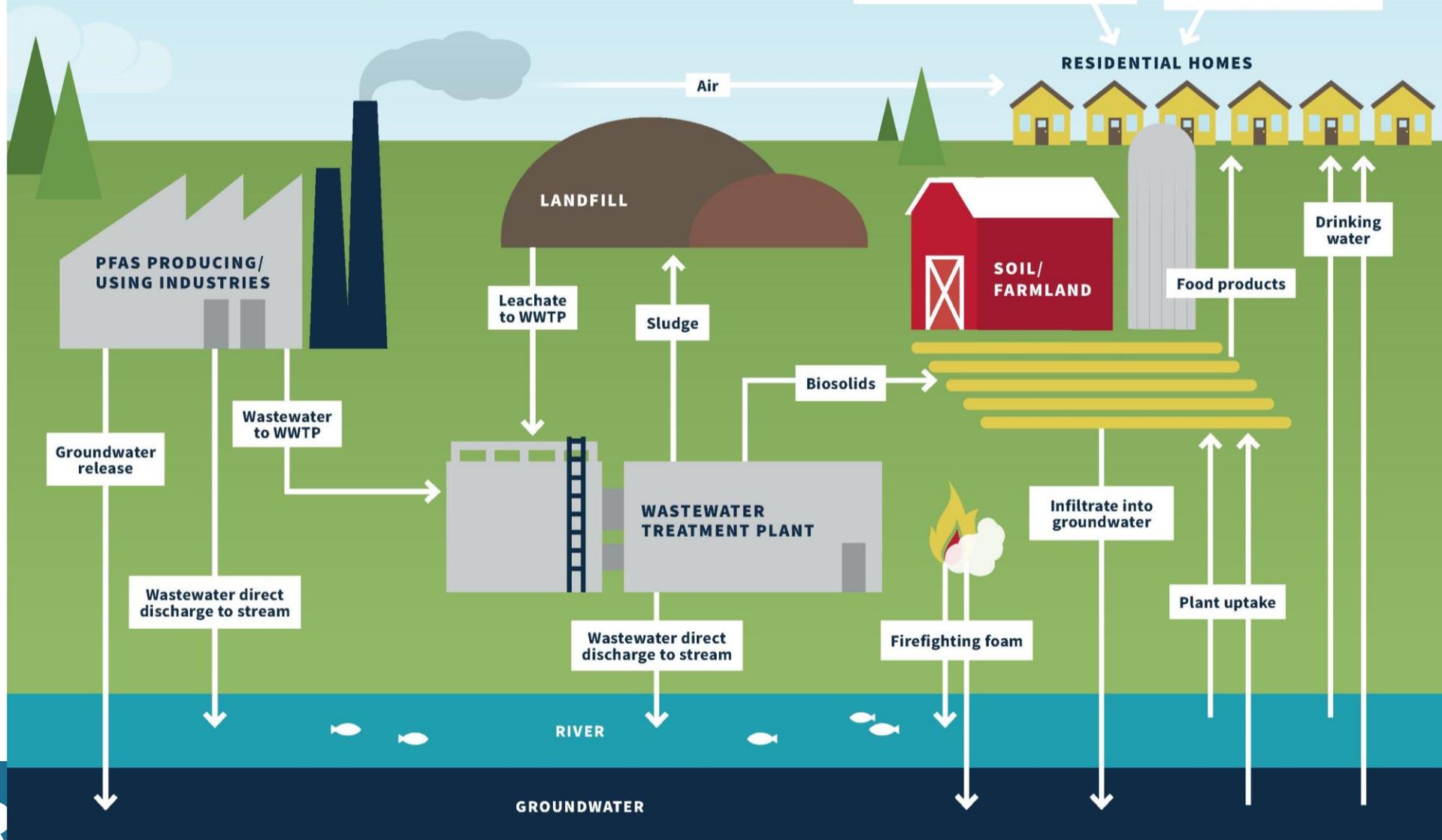


MPART

Michigan's Approach to PFAS

- Science-based; data-driven
 - Protect public health through collaborative investigations
 - Identify PFAS sites and reduce sources
- Proactive in identifying public health risks
- Source Control:
 - Evaluate the potential PFAS issues by prioritization of industries/sectors
 - Implement source controls on industrial discharges and WWTP's
- If responsible party is identified, use law to require actions to reduce PFAS concentrations

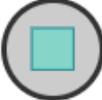
PFAS Cycle

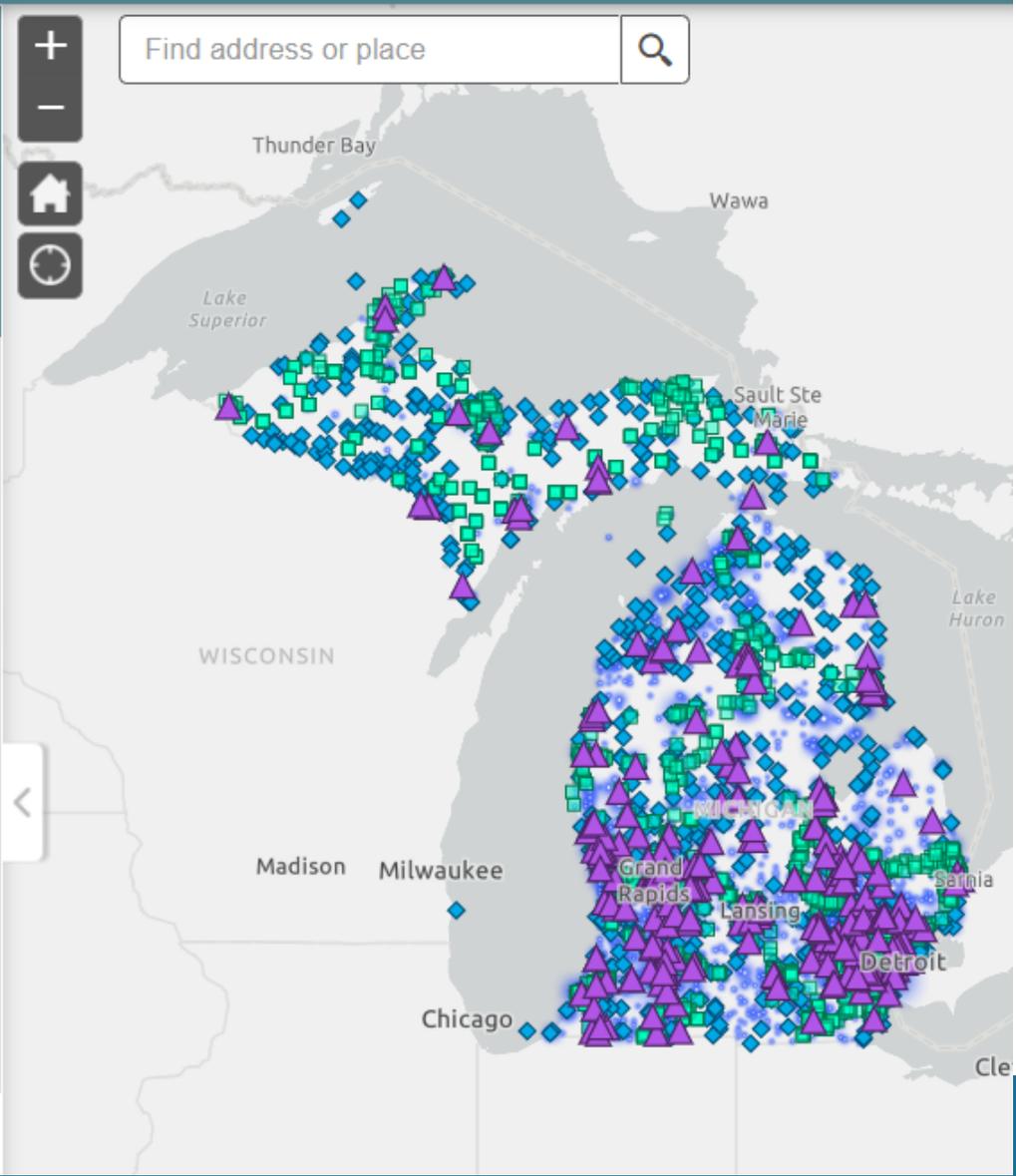


PFAS work:

- PFAS sites identified
- Surface waters sampled
- Public water sampled
- Fish sampled

Number of Features in Current Map View (zoom in or out to adjust number)

	Number of PFAS Sites in View	278
	Number of PFAS Surface Water Samples in View	1,931
	Number of Public Water Supply Sampling Hexbins in View (note that this is not total sampling results)	1,610
	Number of Fish Contaminant Monitoring Program Sampling Sites in View (note that this is not total sampling results)	947



Michigan's Drinking Water and Groundwater Cleanup Standards

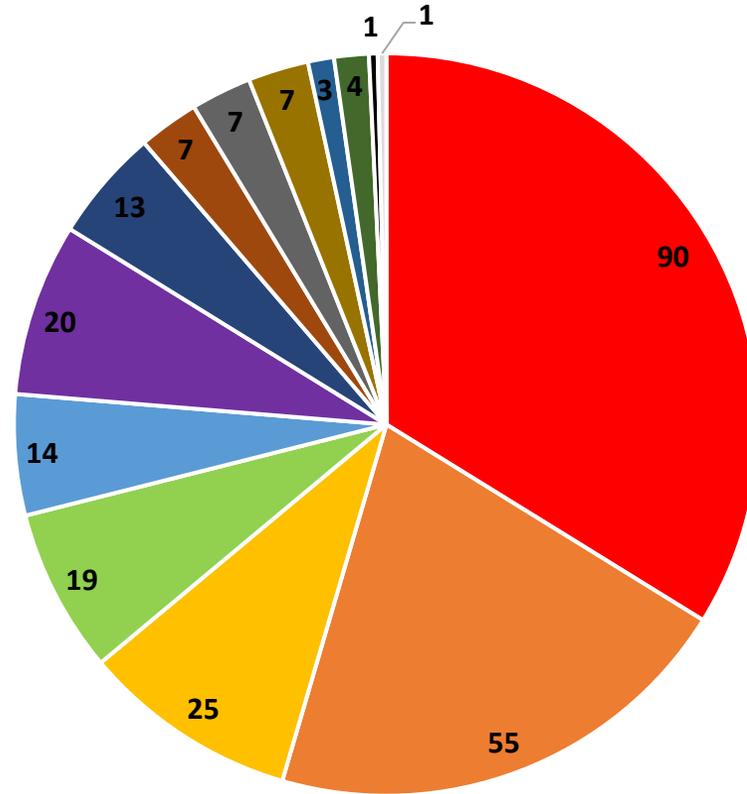
Compound	Standards
PFNA	6 ppt
PFOA	8 ppt
PFOS	16 ppt
PFHxS	51 ppt
GenX (HFPO-DA)	370 ppt
PFBS	420 ppt
PFHxA	400,000 ppt

Michigan Surface Water Quality Values

Compound	Water Quality Value
PFOA	170 ppt
<i>If Drinking Water Source</i>	<i>66 ppt</i>
PFOS	12 ppt
<i>If Drinking Water Source</i>	<i>11 ppt</i>
PFBS	670,000 ppt
<i>If Drinking Water Source</i>	<i>8,300 ppt</i>
PFHxS	210 ppt
<i>If Drinking Water Source</i>	<i>59 ppt</i>
PFNA	30 ppt
<i>If Drinking Water Source</i>	<i>19 ppt</i>

Michigan's Rule 57 Water Quality Values apply to NPDES discharges

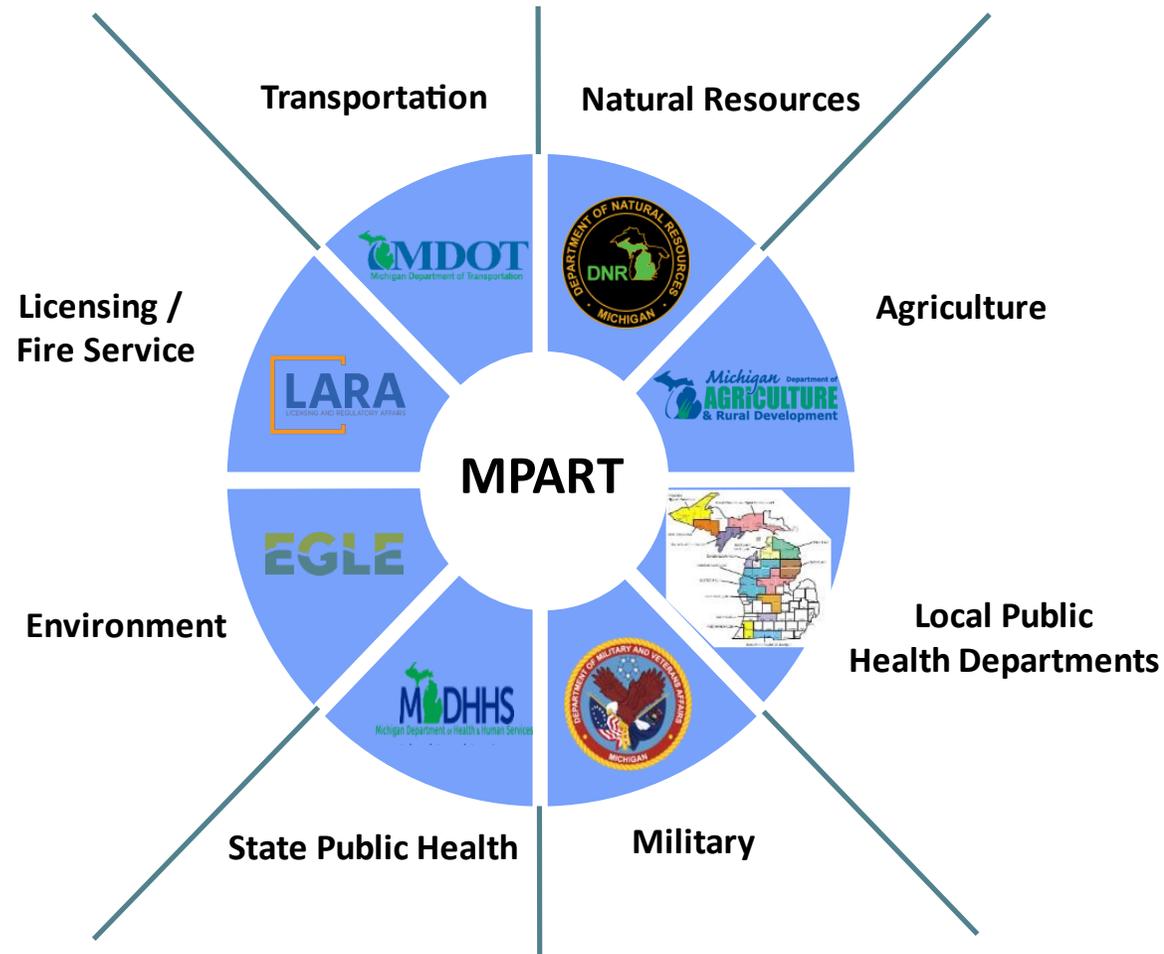
Types of PFAS Sites Identified



- Landfill
- Industrial (transportation-related, chemical and other manufacturing)
- Plating
- Airport
- Military
- Wastewater (wastewater treatment plants, a car wash, and a school)
- Fire Related
- Laundromat/Dry Cleaner
- Unknown
- Paper Manufacturing
- Refinery
- Tannery
- Hazardous Waste
- Power Station

MPART

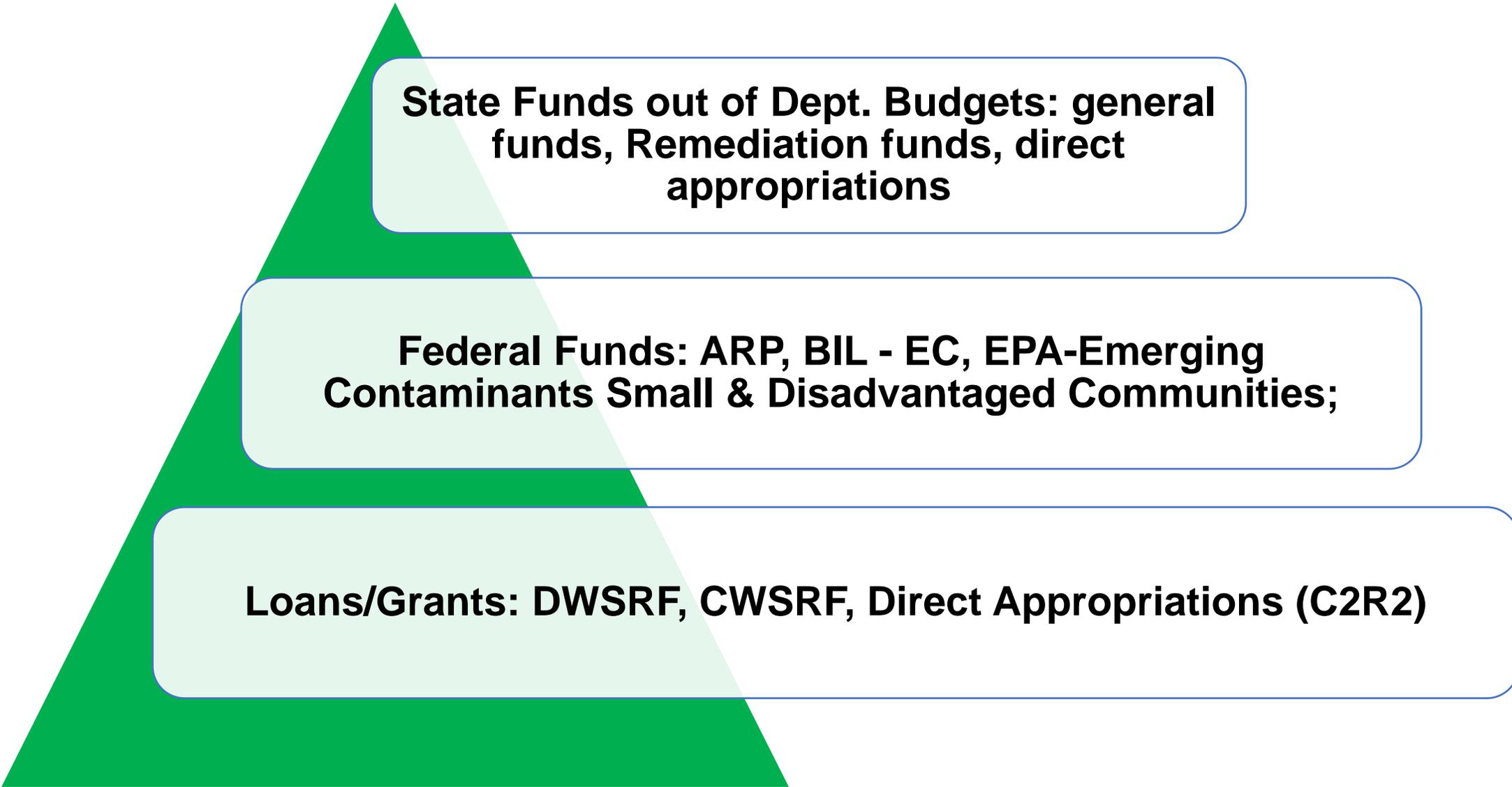
MICHIGAN PFAS ACTION RESPONSE TEAM



Funding for PFAS Work

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM



State Funds out of Dept. Budgets: general funds, Remediation funds, direct appropriations

Federal Funds: ARP, BIL - EC, EPA-Emerging Contaminants Small & Disadvantaged Communities;

Loans/Grants: DWSRF, CWSRF, Direct Appropriations (C2R2)

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

Fiscal Year Activities

November 2017 – MPART Established

FY18: Statewide Public Water Supply Sampling (Phase 1 – 1592 supplies)

- Sampling of 95 Wastewater Treatment Plants & Testing of Biosolids
- Pick & Collection of AFFF (Firefighting Foam)

FY19: Statewide public water supply sampling (Phase 2 + 716 supplies)

- Solid Waste Landfills prioritized and sampled
- Hazardous waste sites investigate
- 4 DWSRF loans given

FY20: Consolidation and Contamination Risk Reduction (C2R2) \$25M

+ \$18M ARP funds for PFAS + (13 communities used funds)

- 51,404 Gallons of AFFF picked up from Fire stations
- Fish & Deer Sampling

Fiscal Year Activities

- FY21: Continued monitoring of all categories, Public Water, Investigations, Public Health, site identified
 - 6 DW Infrastructure Loans/Grants \$16.9 M (DWSRF)
 - 1 DW Loan \$1.48 M Oscoda - DWSRF
 - 19 Airport Grants \$4M (State)
- FY22: Infrastructure Funds:
 - \$29M C2R2/ARP/general fund awarded for PFAS work (Pellston FS, Wyandotte, Central Montcalm Schools)
- FY23: Infrastructure Funds:
 - \$20.8 M Loans/Grants awarded to address PFAS contamination (municipal water extensions, City of Ann Arbor, etc.)

Looking for Opportunities to do Additional PFAS Work

- EPA Emerging Contaminant –Small & Disadvantaged Community grants \$38M for year 1 & 2 of 5 years of funding
- EPA Grants for Agriculture Investigations
- USDA Rural Development - Loans:
 - Emergency Community Water assistance Grants for communities with population less than 10,000 people
 - Water & Waste Disposal Loan & Grant Program

Building the Capacity of Drinking Water Systems

[CONTACT US](#)

[Building the Capacity of Drinking Water Systems Home](#)

[About Capacity Development](#)

[About Operator Certification](#)

[About Water System Partnerships](#)

[About Asset Management](#)

Contacts for Emerging Contaminants (EC) in Small or Disadvantaged Communities Grant (SDC)

As part of President Biden's Bipartisan Infrastructure Law to confront PFAS pollution, the *Emerging Contaminants in Small or Disadvantaged Communities* grant program was created for states to provide grants to public water systems in small or disadvantaged communities to address emerging contaminants, including PFAS.

EPA is making available \$1 billion in FY2022 and in FY2023, and a total of \$5 billion for fiscal years 2022-2026 in grant funding, to help communities that are on the frontlines of PFAS contamination to reduce PFAS in drinking water in communities facing disproportionate impacts.

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

Research Grants

[CONTACT US](#)

[Research Grants Home](#)

[Funding Opportunities](#)

[Research Areas](#)

[Research Grants](#)

[Climate Change Research Grants](#)

[Water Systems Research Grants](#)

[Health Research Grants](#)

[Safer Chemicals Research Grants](#)

[Sustainability Research Grants](#)

[Water Research Grants](#)

[Research Grants Events](#)

[About Research Grants](#)

Research for Understanding PFAS Uptake and Bioaccumulation in Plant and Animals in Agricultural, Rural, and Tribal Communities Request for Applications (RFA)

OVERVIEW INFORMATION

U.S. Environmental Protection Agency
Office of Science Advisor, Policy, and Engagement
Office of Research and Development
Science to Achieve Results (STAR) Program

RESEARCH FOR UNDERSTANDING PFAS UPTAKE AND BIOACCUMULATION IN PLANTS AND ANIMALS IN AGRICULTURAL, RURAL, AND TRIBAL COMMUNITIES

This is the initial announcement of this funding opportunity.

Funding Opportunity Number: **EPA-G2023-STAR-J1**
Assistance Listing Number: **66.509**

Solicitation Opening Date: **October 6, 2023**
Solicitation Closing Date: **December 6, 2023: 11:59:59 pm Eastern Time**



Michigan PFAS Action Response Team (MPART)



What's new

- New section of the website: [Resources for Residents](#)
- New site in **Wayne County**: [Cul-Mac Industries, LLC \(added 12/15\)](#)
- New site in **Keweenaw County**: [Copper Harbor Landfill \(added 12/13\)](#)
- New site in **Ionia County**: [Lowell City Landfill \(added 11/30\)](#)



MPART FY2023 Fast Facts

In FY2023, the Michigan legislature supported the PFAS response by appropriating funding across the 7 state agencies that make up MPART. Learn more about the impact of that funding.

Michigan.gov/PFASResponse

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

MPART – Fiscal Year Fast Facts

- <https://www.michigan.gov/pfasresponse/about/fast-facts>
- Fiscal Years: 2019-2023

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

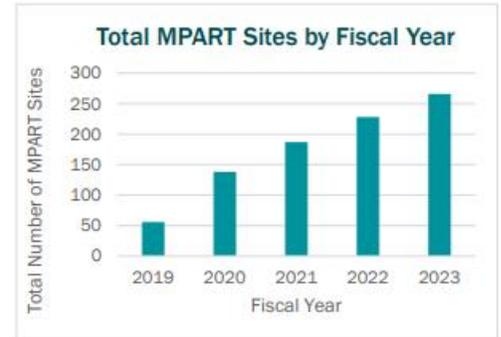
MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

FAST FACTS: Fiscal Year 2023 Update

In fiscal year (FY) 2023, the Michigan legislature continued to support the state's response to PFAS by appropriating funding across the seven state agencies that make up the Michigan PFAS Action Response Team (MPART). This funding allowed MPART to continue to be a national leader in addressing PFAS.

As of the end of FY 2023, MPART had identified **266 MPART PFAS Sites**. A PFAS site is an area where PFAS contamination has been found in groundwater above Michigan's criteria, and the source of the contamination has been identified. MPART is also actively conducting investigations at dozens of other areas around the state where the sources of the contamination are still unknown.



What makes MPART unique?

For every new site, drinking water exposure is evaluated.

MPART works with the local health departments to:

- Determine if there are residential/private drinking water wells near the site.
- Review well records to identify wells that are potentially at-risk of PFAS contamination.
- Access property and conduct water sampling of the wells identified to be potentially at-risk.
- Share results with well owners and among agencies, as well as provide filters to residents if necessary.
- Expand sampling areas if results indicate additional



Featured topics



NEW! Resources for residents



About MPART



Citizen's Advisory Workgroup



Drinking water



Public engagement



Investigations



Sampling guidance



Identified sites

- PFAS 101
- FAQs
- Site investigation summaries
- Public meeting calendar

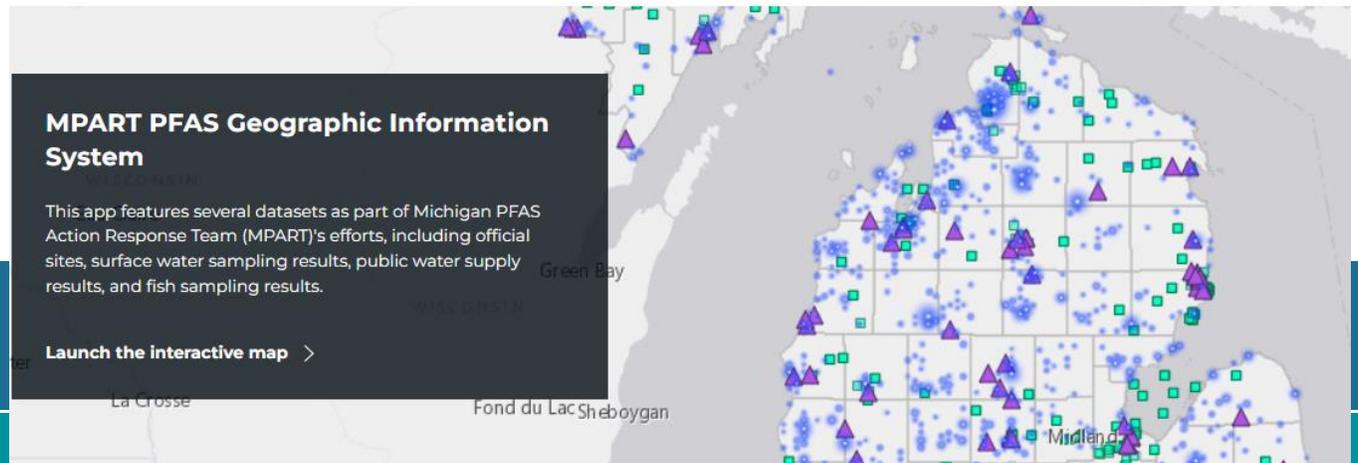
MPART

MICHIGAN PFAS ACTION RESPONSE TEAM

MPART PFAS Geographic Information System

This app features several datasets as part of Michigan PFAS Action Response Team (MPART)'s efforts, including official sites, surface water sampling results, public water supply results, and fish sampling results.

[Launch the interactive map >](#)



MICHIGAN PFAS ACTION RESPONSE TEAM (MPART)

www.Michigan.gov/PfasResponse

The logo for the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The letters 'EGLE' are rendered in a bold, sans-serif font. The 'E' and 'L' are green, while the 'G' and 'E' are blue.

MICHIGAN DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY



MPART

MICHIGAN PFAS ACTION RESPONSE TEAM