West Michigan Air & Waste Management Association

Michigan PFAS Action Response Team (MPART) February 27, 2024

Abigail Hendershott, Executive Director Michigan PFAS Action Response Team (616) 888-0528 HendershottA@Michigan.gov

MPART

Agenda

MI Supreme Court

MIPES Report for Rockford

Sampling Guidance Updates

- Precautionary Sampling protocol
- EPA updates



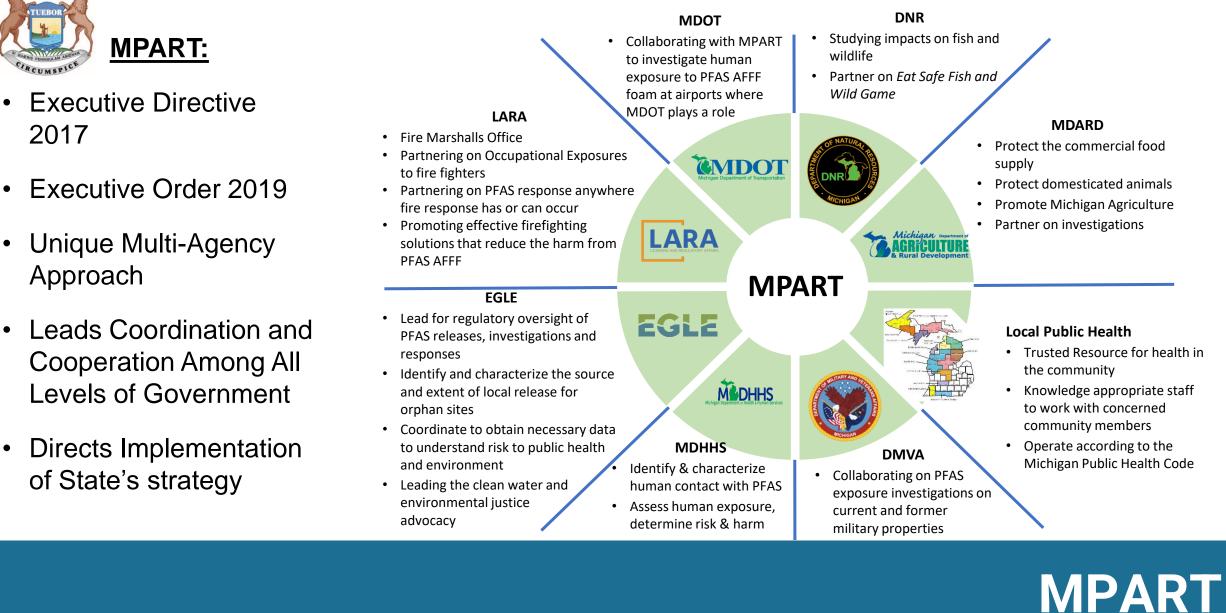


2017

Approach

of State's strategy

Establishment of MI PFAS Action Response Team



MPART: PFAS Geographic Information System

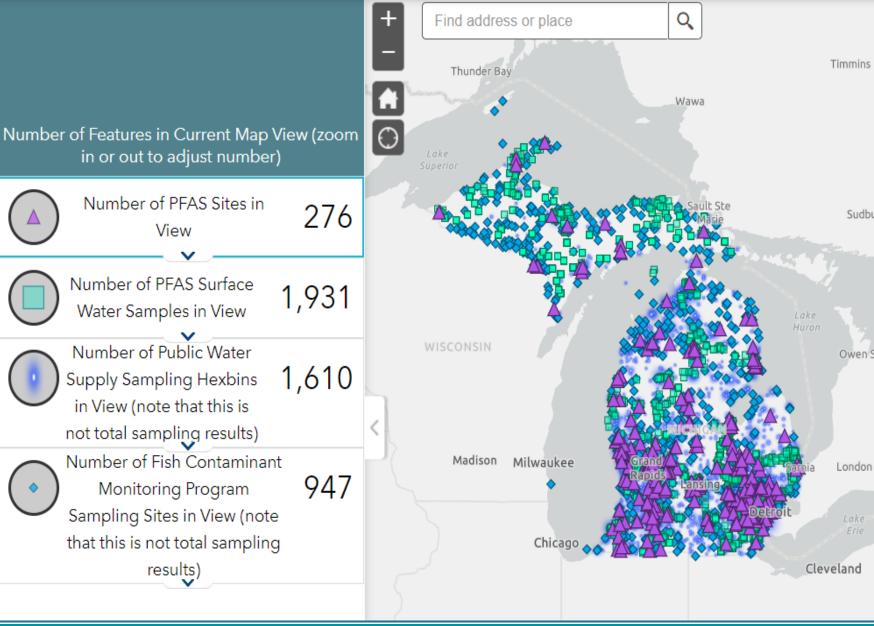
Access Data MPART Website

PFAS work:

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

MPART





Precautionary Sampling Protocol



- is known to have used AFFF or PFAS compounds
- is highly suspected to have PFAS releases
- may have associated data that indicates a PFAS release or contamination
- is proximal to vulnerable drinking water wells or sensitive receptors

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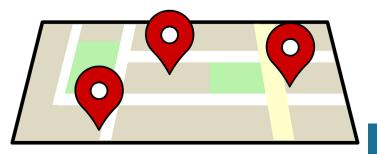
MICHIGAN PFAS ACTION RESPONSE TEAM

Location:

Coordination:

Precautionary Sampling Protocol

- Work with DHHS and local health to identify potential closest residential wells
- Review sampling plan with MPART
- Arrange for funding and sampling contract







Precautionary Sampling Protocol

- Notify local officials that we will be doing residential well sampling in the area and why
- Send sample request letters to residents
- Share sampling results with MPART, DHHS, and local health to determine next steps



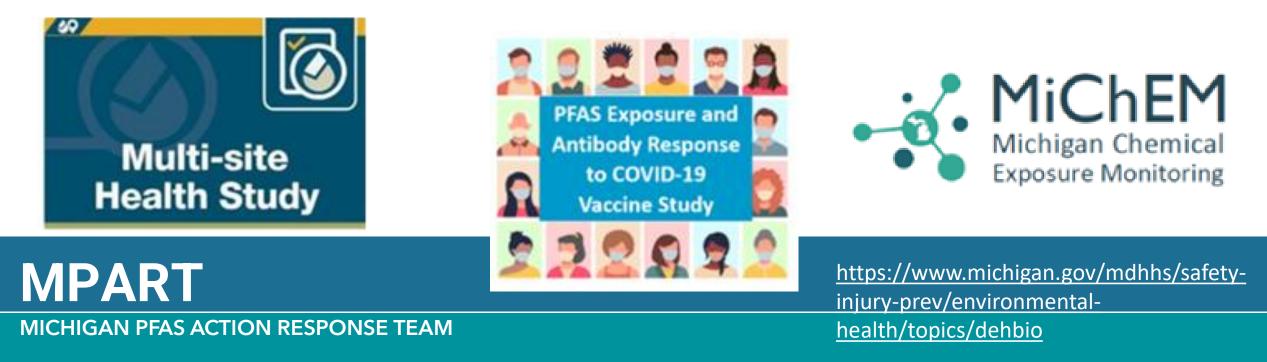
Communication:







Biomonitoring and PFAS Health Studies



1/10/2024

Drinking Water PFAS Concentrations and **Exposure Factors** Influencing Measured and Predicted Serum PFAS Concentrations

Report 2 of the North Kent County Exposure Assessment



Read the Second Report

The full North Kent County PFAS **Exposure Assessment (NKCEA) report is** available at: Michigan.gov/DEHBio.

> MPART MICHIGAN PFAS ACTION RESPONSE TEAM





MICHIGAN DEPARTMENT OF HEALTH AND HUMAN SERVICES

informing potentially impacted private well owners, MPART conducts public outreach to ensure awareness among: Local officials | Legislators | Tribal governments

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

MPART works with the local health departments to:

What makes MPART unique? For every new site, drinking water exposure is evaluated.

FAST FACTS: Fiscal Year 2023 Update

contamination are still unknown.

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

addressing PFAS. As of the end of FY 2023, MPART had identified 266

MICHIGAN PFAS ACTION RESPONSE TEAM

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MPART PFAS Sites. A PFAS site is an area where PFAS contamination has been found in groundwater above

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 exproprieting running across the seven state agencies that make up the Microgan PPAS Acron Response Team (MPART). This funding allowed MPART to continue to be a national leader in

Total MPART Sites by Fiscal Year 2019 2020 2021

EGLE

Michigan.gov/pfasresponse

MPADT

the December 2022 Great Lakes PFAS Summit to istrants from 44 states and 10 countries. Update Gov Delivery emails to over 5,600

Michigan PFAS Site

ing with the Public



visory Workgroup (CAWG) members met 12 times with

addition to meetings of four subcommittee groups:

he Public; Web Review; Preventative Measures; and

pupdate the MPART Geographic Information System

h provides PFAS sites, surface water data, and public

data on an interactive online map.









FAST FACTS: FY23





Health

artridges for PFAS-reducing filters.

ells that had been sampled in previous years.

ells that had not been previously sampled.



" study on PFAS concentration in soils. Soils in publicly owned

appled for 28 different PFAS. The concentrations observed were cantly lower than other soils collected around the world. Some

by industrial or urban sources than others, such as those

eninsula. No significant correlations were found between

to address PFAS contamination in drinking water. Projects



Michigan PFAS Action Response Team

Investigations and Sites

Michigan PFAS Action

Response Team

FAST FACTS: FY23

Workgroups

Drinking Water and Wells V

(MPART)



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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.

Fast Facts: Fiscal Year 2023 Update

MICHIGAN PFAS ACTION RESPONSE TEAM

MPART

Fish and Wildlife Public Engagement Frequently Asked Questions About MPART

Q

New on the Web

Michigan PFAS Action **Response Team** (MPART)



What's new

- New site in Marquette County: West Marquette County Sanitation Authority Landfill (added 1/23)
- New site in Gratiot County: 515 North Union Street (added 1/12)
- · New site in Genesee County: Container Specialties, Inc. (added 1/5)
- New section of the website: Resources for Residents



MPART FY2023 Fast Facts

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

Featured topics





About MPART

Investigations





NEW! Resources for residents

Workgroup











Drinking water

Public engagement

Sampling guidance

Identified sites

MPART

MICHIGAN PFAS ACTION RESPONSE TEAM



Resources for Residents

Take action

today, to limit your exposure. Find out what you can do

We know there's a lot of information out there about PFAS. This page was created to make it easier for residents to find PFAS information.



PFAS can be in many things -- on the clothes we wear, in

the products we use, and even in the water we drink: Learn more about what actions you can take, starting

PFAS are human-made chemicals that can persist in the environment for many, many years.

PFAS basics

Learn more about what PFAS are, including potential health risks, and how you can protect yourself and your tamily.

Learn more about PFAS >



Still have questions?

Check out our many Frequently Asked Questions - simply use the search bar on the page or choose from one of our categories, including air quality, pets and livestock health, crops and gardening, and morel

Find your question >

Updated Guidance

Michigan PFAS Action Response Team (MPART)



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 (added 1/23)
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MPART FY2023 Fast Facts

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Featured topics







NEW! Resources for residents About MPART

Citizen's Advisory Workgroup



Drinking water









Investigations

Sampling guidance



Identified sites



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

GENERAL PFAS SAMPLING GUIDANCE

This document contains an introduction to PFAS, biosecurity recommendations, and general recommendations to decrease the possibility of cross-contamination.

January 2024

Michigan.gov/EGLE 800-662-9278

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EGLE - Updates

- Supreme Court will be hearing MI's case for the MCL's
- Treatment Technologies being proposed/implemented
- PFAS precursors vs. analytical methods





EPA Updates:



ACTION RESPONSE TEAM

Resource, Conservation, Recovery Act - RCRA

- EPA Announced New Steps to Protect Communities from PFAS and Other Chemicals of Concern.
- EPA intends to develop two rules that will strengthen states' ability to address PFAS under the Resource Conservation and Recovery Act (RCRA):
 - EPA is proposing to modify the definition of hazardous waste as it applies to cleanups at permitted hazardous waste facilities. This modification would assure that EPA's regulations clearly reflect EPA's and authorized states' authority to require cleanup of the full range of substances that RCRA intended, including emerging chemicals of concern, such as PFAS, that may present substantial hazards, at permitted facilities. Currently, the regulations do not clearly and accurately reflect the full authorities granted to EPA by Congress.
 - EPA is also proposing to amend its RCRA regulations to add multiple PFAS compounds as hazardous constituents. These PFAS--PFOA, PFOS, PFBS, HFPO-DA, PFNA, PFHxS, PFDA, PFHxA, and PFBA-would be added to the list of substances identified for consideration in facility assessments and, where necessary, further investigation and cleanup through the corrective action process at hazardous waste treatment, storage and disposal facilities.
 - A public comment period will follow publication of the proposals in the Federal Register. EPA will offer 30 days for commenting on the modified definition (first bullet above) and 60 days for commenting on listing PFAS as hazardous constituents (second bullet above). EPA said during a webinar yesterday that they hope to have these rules promulgated in a year.

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Comprehensive Environmental Response, Compensation, and Liability Act - CERCLA

• CERCLA Hazardous Substance Designation for PFOA and PFOS: On December 6, the CERCLA PFOA-PFOS hazardous substance final rule package was sent from EPA to the Office of Management and Budget for interagency review. EPA expects the rule to be published in early 2024.



Proposed PFAS National Primary Drinking Water Regulation – Safe Drinking Water Act

- PFAS National Primary Drinking Water Regulation Rulemaking: On December 15, the final drinking water rule package was sent from EPA to the Office of Management and Budget for interagency review. EPA expects the rule to be published in early 2024.
- MCL's to be set



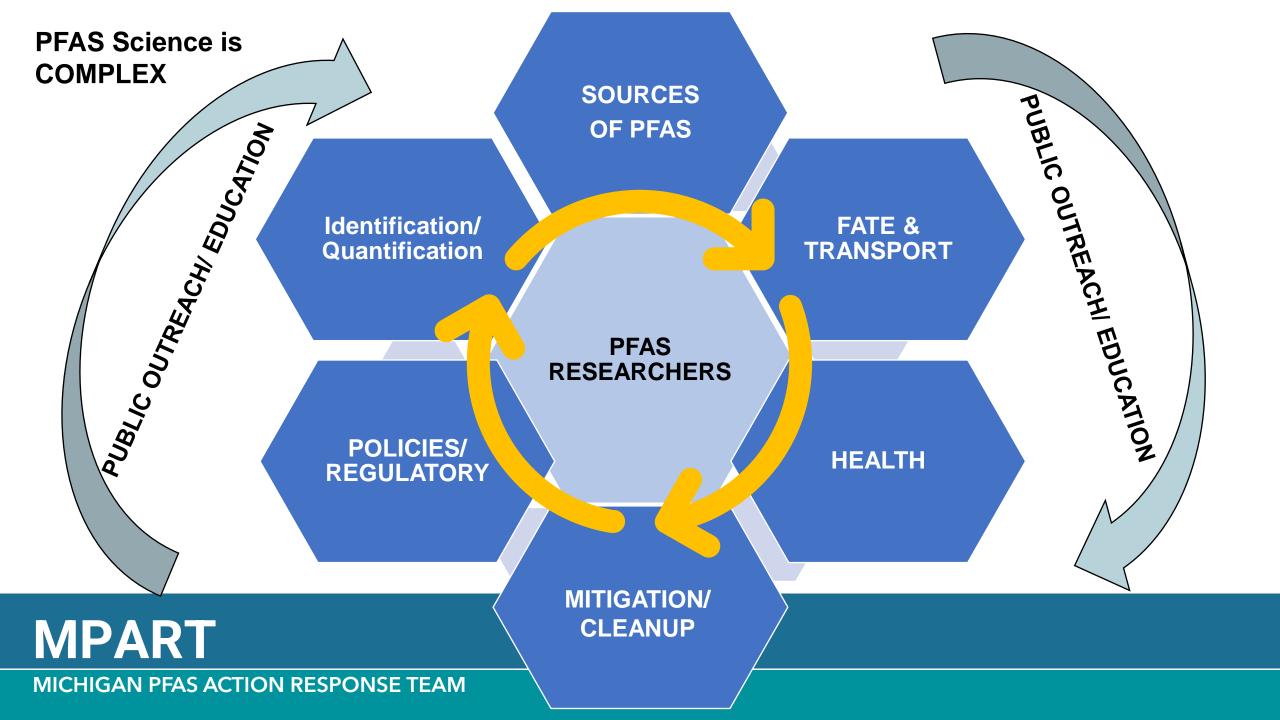
Toxic Substances Control Act - TSCA

- TSCA EPA Office of Chemical Safety and Pollution Prevention Actions: On December 1, EPA issued orders to Inhance Technologies LLC directing it to stop producing PFAS chemicals that are created in the production of its fluorinated high-density polyethylene (HDPE) plastic containers. This action, taken under TSCA authority, will help to protect people from PFAS that leach from containers used for a variety of household consumer, pesticides, fuel, automotive and other industrial products. Learn more about the TSCA actions here.
- Inactive PFAS—TSCA Final Rule: On January 8, EPA announced a final rule that applies to 329 PFAS that are designated as "inactive" on the TSCA Inventory and are not already subject to a significant new use rule (SNUR). If a company wants to use any of these 329 chemicals, they are required to notify EPA first. The Agency would then be required to conduct a robust review of health and safety information under the modernized 2016 TSCA law to determine if the new use may present unreasonable risk to human health or the environment and put any necessary restrictions in place before the use could restart. Any new uses of PFAS would be considered under EPA's framework for evaluating new PFAS and new uses of PFAS, announced in June 2023.

Toxics Release Inventory Program

- Addition of Seven PFAS to the Toxics Release Inventory (TRI): On January 9, EPA announced the automatic addition of the seven PFAS chemicals (below) to the list of chemicals covered by the TRI. For TRI Reporting Year 2024 (reporting forms due by July 1, 2025), reporting is required for these seven additional PFAS, bringing the total PFAS subject to TRI reporting to 196.
- Ammonium perfluorohexanoate; Chemical Abstract Service Registration Number (CASRN) 21615-47-4
- Lithium bis[(trifluoromethyl)sulfonyl] azanide; CASRN 90076-65-6
- Perfluorohexanoic acid (PFHxA); CASRN 307-24-4
- Perfluoropropanoic acid (PFPrA); CASRN 422-64-0
- Sodium perfluorohexanoate; CASRN 2923-26-4
- 1,1,1-Trifluoro-N-[(trifluoromethyl)sulfonyl] methanesulfonamide; CASRN 82113-65-3
- Betaines, dimethyl(.gamma.-.omega.-perfluoro-.gamma.-hydro-C8-18-alkyl); CASRN 2816091-53-7

MPART



Thank You

MICHIGAN PFAS ACTION RESPONSE TEAM (MPART)

www.Michigan.gov/PfasResponse



MPART



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Air Quality Division Updates

Heidi Hollenbach Air Quality Division 616-540-1136 | hollenbachh@michigan.gov



FY23 Field Work Statewide

- Responded to 2,543 complaints
- Conducted 839 inspections
- Issued 357 violation notices
- Issued 46 Title V Permits
- Processed 1,695 emissions inventory reports





Revised PM2.5 NAAQS

- New Annual PM2.5 National Ambient Air Quality Standard is 9 μg/m3
 - Down from 12 μ g/m3
 - Promulgated February 7, 2024
 - Effective 60 days after publication in FR
- 24-hour PM2.5 standard remains at 35 μg/m3.
- PM10 standards are unchanged.





Summary of Previous Standards and 2024 Final Decision

Standards – Last Revised in the 2012 Review*					Decisions in	
Indicator	Averaging Time	Primary/ Secondary	Level	Form	2020 Review	2024 Final Decision
PM _{2.5}	Annual	Primary	12.0 µg/m ³	Annual arithmetic mean, averaged	Retained	Revise level to 9.0 µg/m³ ⊥
		Secondary	15.0 µg/m ³	over 3 years	Retained	Retain
	24-hour	Primary and Secondary	35 µg/m³	98th percentile, averaged over 3 years	Retained	Retain
PM ₁₀	24-hour	Primary and Secondary	150 µg/m³	Not to be exceeded more than once per year on average over a 3- year period	Retained	Retain

* Prior to 2012, PM NAAQS were reviewed and revised several times – established in 1971 (total suspended particulate – TSP) and revised in 1987 (set PM_{10}), 1997 (set $PM_{2.5}$), 2006 (revised $PM_{2.5}$, PM_{10})



If Based on 2020-22 Data

Most Counties with Monitors Already Meet the Strengthened Particle Pollution Standard

(Based on 2020-2022 Air Monitoring Data)

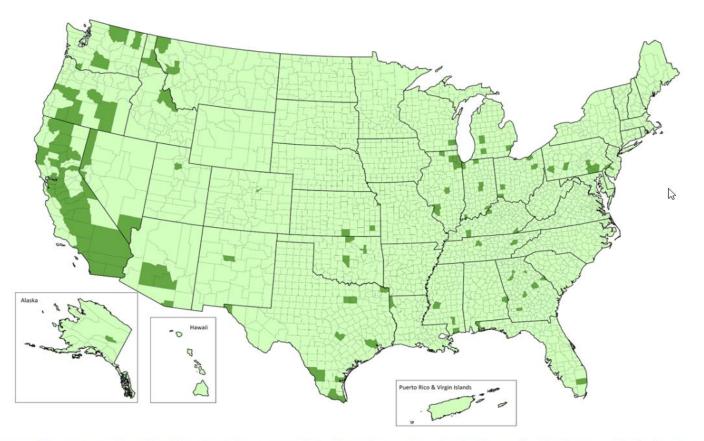


Figure 1: Based on 2020-2022 air monitoring data, the dark green areas on the map indicate counties that do not meet the annual PM2.5 standard of 9 ug/m3. <u>View the</u> <u>data (pdf)</u>. (courtesy U.S. EPA)



Implementation Schedule



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Impact on NSR Permitting

Prevention of Significant Deterioration (PSD) applies with respect to the new standard in all areas that are designated attainment <u>on the effective date</u> of the new standard (i.e., 2 months from the date of publication in the FR).

PSD permitting will apply to a new major source, or a modification to an existing major source. A modeling demonstration must be submitted with the permit application demonstrating compliance with the revised standard.

The new standard applies as of the effective date of the new standard. As such, any application in-house at the time of the change will need to meet the new standard to be approved.



Impact on NSR Permitting

Nonattainment NSR applies to a major nonattainment source proposing to locate in, or currently exists within, areas designated as nonattainment. This occurs as of the effective date of the nonattainment designation.

In Michigan, permitting of **minor sources** often includes demonstrating compliance with the NAAQS through air dispersion modeling, per AQD Policy & Procedure <u>AQD-022</u>. On the effective date of the new or revised standard, any application in-house at the time of the change will need to meet the new standard to be approved.





Hypothetical Scenarios



- A facility has a final permit in hand before the effective date of new standard
- Project moves ahead
- · No new air permitting requirements
- Permit issued



A facility has a permit in process when new standard takes effect – likely to be issued by a state or local air agency

- Compare current air quality modeling results to the new standard level, working with permitting agency
- · Evaluate if additional air pollution emissions reductions are needed
- Permit issued



Plans for building new facility or expanding an existing one

- Work with permitting agency to estimate how much particle pollution will be emitted and choose best available air pollution control technology
- Demonstrate compliance with Clean Air Act requirements
- Permit issued



Plans for building new facility or expanding one in an area not meeting the new standard (permit needed after EPA designations process is completed – likely in or after 2026)

- Work with permitting agency to estimate how much particle pollution will be emitted and choose pollution controls with lowest achievable emission rate
- Demonstrate compliance with Clean Air Act requirements
- Permit issued



Other Considerations

- Exceptional events
 - Wildfires and prescribed burns
 - Will evaluate if appropriate and necessary
- EPA evaluating PM2.5 data due to high bias based on a certain monitoring methodology used. EPA in the process of "correcting" this bias for this years and past years' data.



Revised Air Quality Index

2023 AQI for Fine Particle Pollution (Breakpoints are in micrograms per cubic meter)							
AQI Category and Index Value	Previous AQI Category Breakpoints	Updated AQI Category Breakpoints	What changed?				
Good (0 - 50)	0.0 to 12.0	0.0 to 9.0	EPA updated the breakpoint between Good and Moderate t				
Moderate (51 – 100)	12.1 to 35.4	9.1 to 35.4	reflect the updated annual standard of 9 micrograms per cubic meter				
Unhealthy for Sensitive Groups (101 – 150)	35.5 to 55.4	35.5 to 55.4	No change, because EPA retained the 24-hour fine PM standard of 35 micrograms per cubic meter.				
Unhealthy (151 – 200)	55.5 to 150.4	55.5 to 125.4	EPA updated the breakpoints at the upper end of the unhealthy, very unhealthy, and hazardous categories based on scientific evidence about particle pollution and health. The Agency also collapsed two sets of breakpoints for the Hazardous category into one.				
Very Unhealthy (201 – 300)	150.5 to 250.4	125.5 to 225.4					
Hazardous (301+)	250.5 to 350.4 and 350.5 to 500	225.5+					

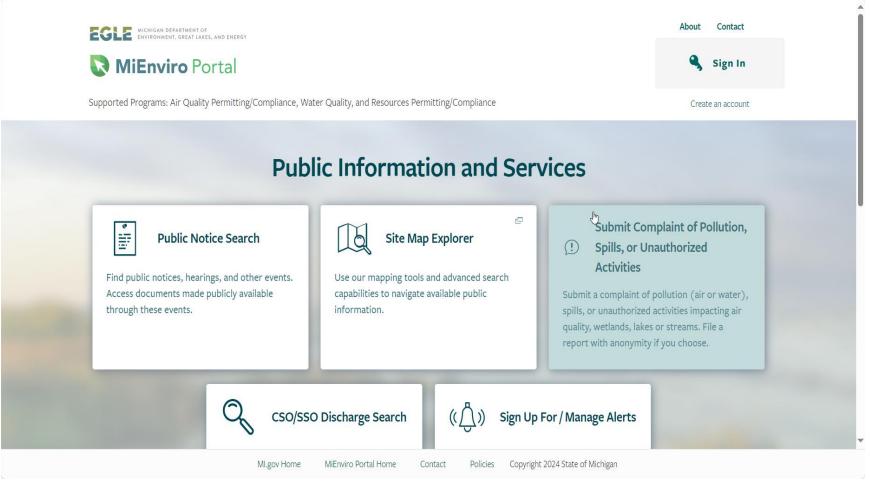


Ozone Non-Attainment





MiEnviro



EGLE

MiEnviro

- Equipment Inventory was due 12/31/23
- Emissions reporting due 3/15/24
- Rollout of Compliance, Enforcement, and Permitting Modules in Summer 2024
- Trainings will be announced via Gov Delivery and posted on AQD webpage.



EGLE Seeking Public Comment

- Public Participation Policy
 EGLE Policy 09-007 (michigan.gov)
- Language Access Plan

EGLE's Language Access Plan (michigan.gov)

- Comments Due April 1 (<u>EGLE-Engage@Michigan.gov</u>)
- Virtual Listening Sessions:
 - . March 6, 2024, 12:00-1:30 PM
 - . March 7, 2024, 6:00-8:00 PM





MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Materials Management Division

Fred Sellers

District Supervisor Kalamazoo and Grand Rapids Solid Waste, Hazardous Waste, Scrap Tires 269-569-1476 | SellersF@Michigan.gov



Solid Waste Management

- •Historically Solid Waste Disposal Focused
 - License 67 landfillsTransfer StationsProcessing Plants
- •28 years of Solid Waste Disposal Capacity
- •Change focus to Materials Management







Materials Management Plan Goals

- •Identify materials management facilities and capacity
- •Benchmark Recycling Standards
- •Determine a MSW recycling rate
- •Develop goals for utilization of materials
- •Divert Organics, Recyclables, and other materials





Organic Materials Management

- Composting Facilities
- Anaerobic Digesters
- Agricultural Use Approvals (AUAs)









MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Remediation Information Data Exchange (RIDE)

Karen Vorce, District Supervisor Remediation & Redevelopment Division Grand Rapids District Office 616-439-8008 | Vorcek@michigan.gov



Remediation Information Data Exchange (RIDE)

Remediation Information Data Exchange (RIDE)



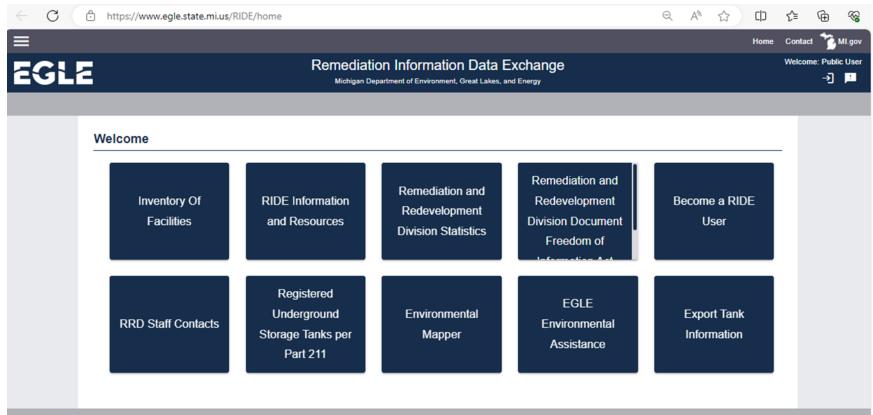
> Maps and Data > Remediation Information Data Exchange (RIDE)



The Remediation Information Data Exchange (RIDE) is an application used by the Remediation and Redevelopment Division (RRD) that allows for the exchange of data and information related to contaminated properties regulated under <u>Part 201, Environmental Remediation</u>, and <u>Part 213, Leaking Underground Storage Tanks</u>, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.



Remediation Information Data Exchange (RIDE)



MI.gov Application Home Policies Contact

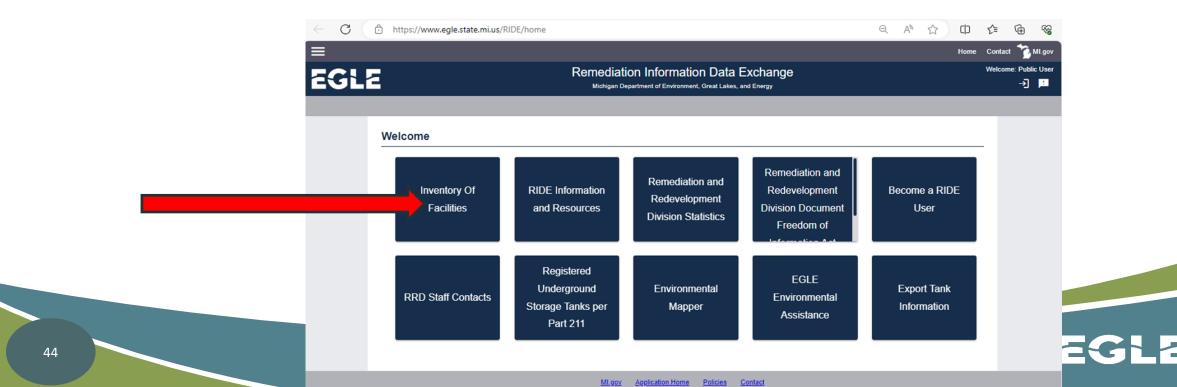
https://www.egle.state.mi.us/RIDE/home

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Electronic files now available on RIDE

To access electronic documents in RIDE, use the following steps:

- Enter RIDE and access the Inventory of Facilities page.
- Search for the specific Facility desired.
- On the far-right side of the row, select the ellipses icon (three dots) to see additional information about that facility.
- Select the "Files" panel, and a table will appear with all of the available electronic documents for that facility.
- Files can be sorted using the arrows next to the headers and downloaded by selecting the "print/view" icon.



EXAMPLE SITE: 1855 House Street NE, Belmont, MI

							Definition and Statist	ics
Inventory of Fa	acilities	Become a RIDE User	Project Managers Proje	ct Managers by Count	ty			
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acility ID ↓			The current View has unsaved changes	Regulatory Program	Full Address Full Address: 1855 House Street NE, Belmont			
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EGLE

5,972 public records available to view and download for this site

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			ll files may not be displayed until RRD fully so the <u>EGLE Freedom of Information Act webpa</u>	cans all records to electronic format, or because of age and complete a request.
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Date of Document		Index Type	File Name	Document Size - KB
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02/19/2024		Remediation/Investigation - Monitoring Analytical Report (RI)	Enthalpy Analytical/ 01/29 - 01/30/2024 Aqueous Sampling Results - 2401248 Volume I	8810.99
		Remediation/Investigation - Monitoring Analytical Report (RI)	Enthalpy Analytical/ 01/29 - 01/30/2024 Aqueous Sampling Results - 2401248 Volume II	81876.9
02/19/2024				
02/19/2024 02/19/2024		Correspondence - Non Contractual Invoice	(Redacted) Enthalpy Analytical/ 2400275	1074.21

Files can be sorted and then downloaded by selecting the " "print/view" icon



Remediation Information Data Exchange (RIDE)

Guides and FAQs

- <u>Accessing Electronic Documents</u>
- Become a RIDE User Instructions
- Secondary Certificate Instructions
- Guide to Part 213 Electronic Submittals for Third-Party Users
- Notice of On-Site Work Activity Submittal Directions
- Frequently Asked Questions (FAQs)





How to Submit Part 213 Reports Electronically

This is a recording of a training webinar hosted on August 10, 2022. The update includes additions to the Inventory of Facilities list for Part 213 locations and the ability to submit Part 213 reports electronically.

https://www.egle.state.mi.us/RIDE/home





Contacts

For RIDE questions, contact: <u>EGLE-RIDE-Admin@Michigan.gov</u>

For MiLogin issues call: 1-877-932-6424

Already a user? Log in here: <u>MiLogin for Business</u>

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