

Office of Water Quality Compliance Branch

Kim Rohr

Wastewater Inspections and Operator Certification Section Chief

ESP Annual Meeting

July 18, 2024





New Operator Certification Rule

- At the August 9, 2023, meeting of the ERB, a new rule was finally adopted (327 IAC 5-23) which repealed and replaced 327 IAC 5-22.
- At that same meeting, a Non-Rule Policy Document was adopted formalizing allowable substitutions for the education and experience prerequisites needed to sit for the exam.
- Became effective on January 5, 2024







Industrial Classification Changes

- Revises industrial plant classifications, in part to accommodate on-site groundwater remediation systems which were previously classified as A or B
- Activated carbon filtration or membrane filtration systems with replaceable filter cartridges will now be classified as A-SO systems
- Groundwater remediation systems associated with fueling stations using air stripping which discharge less than 25,000 gallons per day will now be classified as A systems
- Many of these simple systems have struggled to obtain certified operators (5-23-4(a)), and this rule change will help to resolve that problem without reducing the quality of oversight.







Nonrule Policy Document (NPD)

- Eliminates the substitutions table in the prior rule
- Class I or A on-site experience will now count at ½ time on a Class III or C application as acceptable experience.
- Class II or B on-site experience will now count at ½ time on a Class IV or D application as acceptable experience.
- This enable lower class operators to seek advancement at larger facilities.
- Class I-SP, A-SO through II, B previous rule, education could not substitute any experience and new rule some education can substitute for experience.





How Does New Rule affect operators?

- Less on-site experience required for lower licenses
 - Class I-SP and A-SO, 3 months from 6
 - Class I and A, 9 months from 1 year
 - Class II and B, 2 years from 3
 - All other classes remain the same
- Fail exam 3 times, you must take an IDEM approved exam prep class
- Class I, A and II, B experience can now count toward Class III, C and IV, D at half time to help operators advance to larger systems



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DMRQA

EPA's lab QA/QC program

□ Majors every year

□ Minors on three-year rotation

- 2024 Semi-Publics and State Facilities
- 2025 Industrials, some Water Plants, and Pretreatment Industries
- 2026 Municipals and Municipal Water Plants





DMRQA

Signed Complete Reports to IDEM

- One complete signed report must be submitted **BY THE PERMITTEE** to IDEM by the date listed in the EPA DMRQA study announcement
- This report must be signed
- This report must include the NPDES Data Report Form, the List of Labs page, all relevant Analyte Checklists, and a copy of the graded results
- If Corrective Action has been completed by the initial report deadline that can be included with the report





DMRQA

SEPA Office of I	OME Cardial No. 2000-0021 Approval appr
	Washington, DC 20460
	DMR-QA Study 38
(This data is collec	ted under the authority of Section 300 of the Clean Water Act.)
	DES Permittee Data Report Form
	the previous page to complete this form and submit data for evaluation.
Due August 31, 2018	State NPDES Permit Number Permit Extension
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Current Permittee Mailing Address	
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ame		Signature		Date		

These pages **must** be completed and signed by the permittee and along with graded results from the PT provider must be either emailed to <u>dmrqa@idem.in.gov</u> or physically mailed



Accurate Reporting

Don't be afraid to report effluent limit violations

Do explain the reason for the violation and any corrective action steps taken on the MRO/MMR/DMR







Examples of False Data

- Not performing analysis and documenting results
- Changing the results of analyzed samples

Not necessarily false data, but also bad.

• Avoiding sampling when you know you will exceed parameters

Operator Certification Announcements

- You have 90 days after taking a class to submit for credit. You can email it.
- You won't get credit for taking the same class twice in the same renewal period
- For providers, you can submit course approval up to 60 days prior to the class. The sooner you submit the better.
- Contact hour list is updated once a month.
- Renewals with expiration 6/30/24 should have been submitted

Common Non-Compliance Found During Inspections

- Lack of documentation (sampling, analysis, chain of custody, sludge removal)
- pH sampling/analysis issues
 - Out of hold time
 - > No calibration or no calibration log (Minimum 2 buffers)
 - Proper reporting for online probes
- Inaccurate MMRs/DMRs
 - No comments for exceedances
 - Number of exceedances column incorrect

Possible New Effluent Reporting

- PFAs is coming for industries that are known contributors, monitoring only. Possible at receiving POTWs. Strong push from EPA.
- More stringent Phosphorus limits for major dischargers to the Lake Eerie Basin is possible (5 facilities affected)
- Phosphorus report only for small dischargers to impaired streams
- Just a note, EPA is looking closely at facilities in SNC for effluent violations.





Additional Announcements

- New Pretreatment Coordinator Mary Armacost
- New DMR-QA Coordinator Maggie Kroeger
 IDEM issued Non-Compliance Letters for DMR-QA Study 43
- Rose McDaniel retired
- Amari Farren has been promoted to Stormwater, Wetlands, Operations Branch Chief from Enforcement Section Chief
- Jessica Irvine is new enforcement section chief





Contact Information

Inspections: Kim Rohr, 317-605-6489, krohr@idem.IN.gov

Contact hours & license renewals: Tonja Fuller-White, 317-233-0479, tfullerw@idem.IN.gov

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NetDMR: Helen Demmings, 317-232-8815, <u>hdemming@idem.IN.gov</u>

When in doubt: wwreports@idem.in.gov



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ESP Annual Meeting Regulatory Updates July 18, 2024

IDEM Drinking Water Branch Matt Prater, Branch Chief







U.S. EPA Drinking Water Regulation



On April 26th, 2024 U.S. EPA published a final drinking water regulation for PFAS.



EPA set enforceable Maximum Contaminant Levels (MCLs) at **4.0 parts per trillion (ppt)** for PFOA and PFOS individually.



For PFNA, PFHxS and HFPO-DA (GenX Chemicals), EPA is setting **MCLs of 10 parts per trillion**.





Regulatory Levels: Hazard Index

- The Hazard Index is a long-established approach that the EPA regularly uses, for example in the Superfund program, to determine the health concerns associated with exposure to chemical mixtures.
- The Hazard Index is calculated by adding the ratio of the water sample concentration to a

 $HI MCL = \left(\frac{[HFPO-DA_{water}]}{[10 ppt]}\right) + \left(\frac{[PFBS_{water}]}{[2000 ppt]}\right) + \left(\frac{[PFNA_{water}]}{[10 ppt]}\right) + \left(\frac{[PFHxS_{water}]}{[10 ppt]}\right) = 1$





Regulatory Levels: Summary

Chemical	Maximum Contaminant Level Goal (MCLG)	Maximum Contaminant Level (MCL)
PFOA	0	4.0 ppt
PFOS	0	4.0 ppt
PFHxS	10 ppt	10 ppt
HFPO-DA (GenX chemicals)	10 ppt	10 ppt
PFNA	10 ppt	10 ppt
Mixture of two or more: PFHxS, PFNA, HFPO-DA, and PFBS	Hazard Index of 1	Hazard Index of 1

*Compliance is determined by running annual averages at the sampling point



IDEM PFAS Sampling Initiative

- The purpose of the sampling project was to evaluate the state-wide occurrence of PFAS compounds at approximately 778 Community Public Water Systems across the state.
- Workplan began to be developed in Spring of 2020
- In July 2020, IDEM applied for an Emerging Contaminants Grant from the EPA from the Public Water System Supervision (PWSS) Grant Program; approved in September 2020
- Matching funding also provided by the Indiana Finance Authority (IFA)



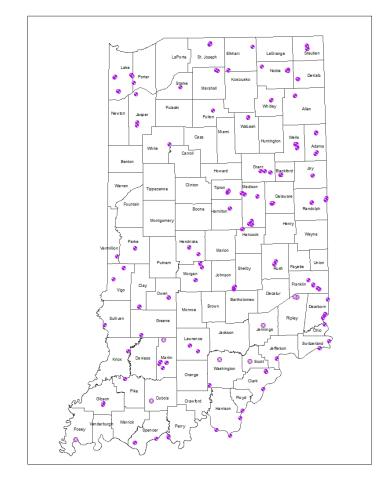


IDEM PFAS Sampling Initiative

	Population Served	Active Systems	Dates
Phase 1	3,300 to 10,000	123	March 2021 - October 2021
Phase 2	< 3,300	570	November 2021 – January 2023
Phase 3	>10,000	85	January 2023 – June 2024





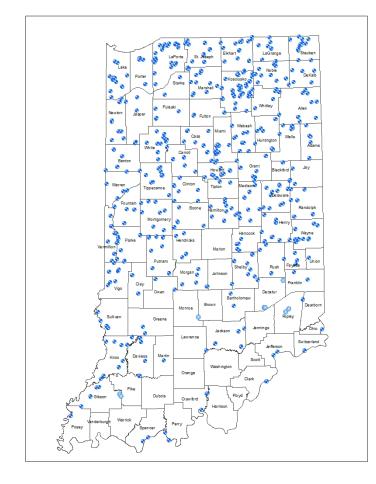


Phase 1 Sampling

- 3,300 to 10,000 population served
- 59 systems participated
- 400 total samples collected during Phase 1 (excluding field blanks)
- Six systems had PFOS or PFOA results above the MCL in finished drinking water







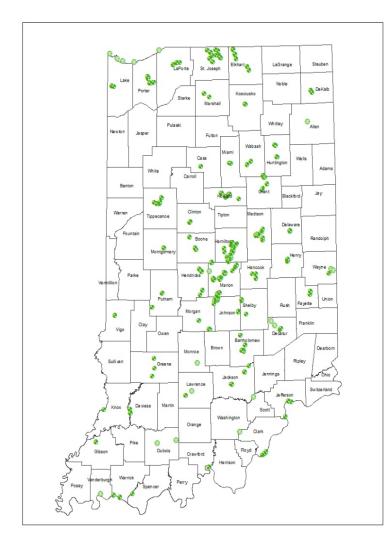
Phase 2 Sampling

- < 3,300 population served
- Total number of PWSs participating: 339 out of 562
- Four systems contained finished water PFAS results above the MCL



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Phase 3 Sampling

- > 10,000 population served
- Total number of PWSs participating: 69 out of 85
- Six systems reported finished water results above the MCL
- Many of these systems are expected to be sampled under UCMR 5 from 2023 to 2025









Proposed Phase 4

- A number of PFAS detections in the first 3 phases of the project come from systems that purchase water from larger surface water systems
- IDEM has received an Emerging Contaminants Grant extension to study PFAS in Indiana surface water bodies that are used for drinking water



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Treatment technologies

- Activated Carbon, Ion Exchange Treatment, High Pressure Membranes (Reverse osmosis and Nanofiltration)
- Some technologies are more effective against longer or shorter chains
- Based on design choices, 100% removal of PFAS compounds can be achieved, but costs and remediation targets may make complete removal impracticable or unnecessary
- None of these technologies destroy the PFAS molecule, so PFAS are essentially being concentrated, and the waste stream will have to be properly disposed.





IFA Infrastructure Law Funding

- \$1 Billion in Bipartisan Infrastructure Law Funding
- "This is part of a \$9 billion investment through the Bipartisan Infrastructure Law to help communities with drinking water impacted by PFAS and other emerging contaminants."
- "The Indiana State Revolving Fund (SRF) provides lowinterest loans to Indiana communities for projects that improve drinking water infrastructure. Communities impacted by PFAS contaminated drinking water may qualify for grant funding through the Bipartisan Infrastructure Law (BIL) designed specifically for PFAS mitigation efforts. To find out how to access SRF funds, please visit in.gov/ifa/srf."





Resources

- IDEM PFAS website: <u>https://www.in.gov/idem/resources/nonrule-policies/per-and-polyfluoroalkyl-substances-pfas/</u>
- EPA PFAS Drinking Water Regulation: <u>https://www.epa.gov/sdwa/and-polyfluoroalkyl-substances-pfas</u>
- PFAS Treatment Options:

Fact Sheet: Treatment Options for Removing PFAS in Drinking Water (pdf)



Indiana Department of Environmental Management Office of Water Quality Stormwater Section

Emma Kramer Stormwater Specialist July 18, 2024





General Permit Conversion Process

- In response to U.S. EPA, IDEM is in the process of converting from Rule 6 to an Industrial Stormwater General Permit
- Reason for change:
 - Potential conflicts with approval process for administrative rules
 - Rules are not up to date with U.S. EPA federal permits
- The status of the three stormwater programs:
 - Construction Stormwater (Effective: December 18, 2021)
 - Municipal Separate Storm Sewer Systems (MS4s) (Effective: December 18, 2021)
 - Industrial Stormwater General Permit (ISGP)





General Permit Eligibility

- SIC are the basis to determine eligibility under 327 IAC 15-6 (Rule 6)
- ISGP (Draft) Eligibility:
 - Based on the Sector and Subsector designations
 - Sector descriptions are based on Standard Industrial Classification (SIC) Codes
 - Permit eligibility is limited to discharges from facilities:
 - > 29 Sectors that describe industrial activities





General Permit Application Process

- Notice of Intent
 - To obtain permit coverage
- Stormwater Pollution Prevention Plan (SWP3)
 - The federal MSGP has specific SWP3 requirements based on the Sector, Indiana has proposed a standard SWP3 that applies to all facilities
 - 303(d) list of impaired waters and if they have a US EPA approved TMDL
 - Total drainage area delineation for each stormwater outfall/monitoring point and the acres for each
 - A summary of all stormwater discharge sampling data collected at the facility, and if available data from the previous permit term
- Stormwater Pollution Prevention Plan Certification Checklist



- ISGP (Draft) Performance Standards:
 - Exposure Elimination or Reduction:
 - Where feasible limit exposure to stormwater
 - On-site Operations:
 - Perform good housekeeping measures onsite, including trash containers, storage areas, loading docks, etc.
 - Stormwater Measures:
 - Ensure long-term functionality; including preventive maintenance schedules, documentation of maintenance and corrective action
 - Spill Prevention and Response Plan:
 - Reduce potential for leaks and spills
 - > Material handing procedures and storage (i.e. secondary containment)



- ISGP (Draft) Performance Standards:
 - Erosion and Sedimentation Prevention and Control:
 - Implement stabilization of eroding areas
 - Obtain CSGP permit coverage when applicable
 - Stormwater Run-off Management:
 - Manage run-off to optimize the effectiveness of control measures
 - Use diversions and other measures to direct stormwater away from fueling areas, storage areas, etc.
 - Salt Storage Piles or Piles Containing Salt
 - Enclose and/or cover storage piles and eliminate run-on
 - Dust Generation and Vehicle Tracking
 - Discharge of Waste, Garbage, and Floatable Debris



- ISGP (Draft) Performance Standards:
 - Employee education program:
 - Annual employee training
 - Training targeted to the job responsibilities of the employee
 - Training must include:
 - Operation and maintenance of stormwater management measures
 - Facility SWP3
 - Monitoring procedures
 - Material handling
 - Training documentation:
 - Date of training
 - Name of trainer and affiliation and Individual trained
 - Curriculum



- ISGP (Draft) Monitoring Procedures:
 - Benchmark Monitoring:
 - ISGP requires sampling for pH, COD, and total suspended solids plus any parameter that is specific to a Sector
 - During the first eight quarterly monitoring periods (the first two years) of permit coverage, the permittee must perform benchmark monitoring in four of the eight quarterly monitoring periods
 - Benchmark exceedances are not a permit violation
 - Failure to implement corrective action as a result of a benchmark exceedance is a violation
 - Once obtaining samples in four (4) consecutive quarters those values are averaged to determine any benchmark exceedances





- ISGP (Draft) Monitoring Procedures:
 - Effluent Limitation Monitoring Requirements:
 - Regulatory standards for wastewater discharged to surface waters. U.S. EPA issues these regulations for industrial categories, based on the performance of treatment and control technologies
 - Effluent limitations are assigned to facilities based on sectors. An exceedance of an effluent limitation will require a facility to implement stormwater measures and operational controls to address the pollutant; including updating the SWP3 and filing an exceedance report
 - An exceedance is a violation





- ISGP (Draft) Measurable Storm Events and Documentation:
 - Monitor each outfall for a storm event that results in an actual discharge
 - A measurable storm event is defined as a precipitation event which results in a measurable amount of precipitation (i.e. a storm event that results in an actual discharge) and that follows the preceding storm event by at least 72 hours
 - Obtain a minimum of one grab sample from a discharge resulting from a measurable storm event during the first thirty (30) minutes of discharge at the stormwater outfall(s) identified for monitoring





- ISGP (Draft) Quarterly Inspections:
 - Quarterly inspections of stormwater management measures and stormwater run-off conveyances must be documented:
 - Quarterly inspections must be conducted by qualified personnel
 - At least one of the quarterly inspections must be conducted during a rain event
 - Quarterly visual assessment of stormwater discharge from each outfall required in addition to quarterly inspections:
 - Visual assessments include collecting a stormwater grab sample from ALL outfalls
 - Visually evaluating sample for water quality characteristics (e.g. color, odor, etc.)





- ISGP (Draft) Electronic Submittals:
 - U.S. EPA requires all states to utilize an electronic reporting system:
 - Notices of Intent
 - Termination/Exclusion Requests
 - > Annual Reports (IDEM proposal Annual Reports are retained at the facility)
 - Discharge Monitoring Reports (NetDMR)
 - No Exposure
- IDEM Regulatory Services Portal:
 - https://www.in.gov/idem/stormwater/industrial-storm-water-permitting/
 - Allows users to submit:
 - Notice of Intent and Terminations/Exclusions
 - No Exposure





Industrial Stormwater General Permit

Contact Information

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John Naddy Office of Land Quality Compliance Branch July 18, 2024





Issues

- EPA GIR Technical Corrections
- PFOS
- Contained-in Determinations
- Episodic Generation Events
- Identifying and Marking Hazards



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Technical Corrections

- The EPA has completed a number of technical corrections addressing issues with the GIR and the Definition of Solid Waste.
- IDEM has not yet adopted the technical corrections.





PFOS

- It appears that the EPA is planning to try to make PFOS a hazardous waste.
- It has not happened yet.
- Most likely a listed hazardous waste if it happens.
- No details.



Episodic Generation of Hazardous Waste

- No changes to the policy.
- Notify within time limits of planned and unplanned events.
- No extensions.



Marking Hazards on Containers and/or Tanks

- If there are multiple hazards, then you must mark each hazard...
- Class 9 Placard is not sufficient.



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