DDAGW Update

One Water Conference April 2, 2019

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Overview

- Program Update
- Disruption of Service
- Lead and Copper
- Asset Management
- Laboratory Reporting
- Rule revision updates
- Manganese
- D/DBP
- Other items
- USEPA Legislation AWIA
- **Future Priorities**



Agency Changes

- New Director
- –Laurie Stevenson
- -OCAPP background
- Priorities = Lake Erie and Children's Welfare
- H2Ohio
- Emerging Contaminant Section



mage courtesy of the Capitol Square Review and Advisory Board



Disruption of Service Rules

- Effective 11/1/18
- Disruption of service defined as inability to maintain a minimum pressure of 20 psig
- Splits disruption of service into 4 types
- Spells out actions for each type



Disruption of Service Rules

- Type 1 and 2 do not require:
- Reporting to Ohio EPA
- A boil advisory; or
- Total coliform sampling
- Any type 1 or 2 repair not meeting the repair criteria is elevated to the next type





Disruption of Service Rules

- Type 3 and 4 require:
- Issuance of a boil advisory
- —Chlorine and bacteria testing after fixing the issue
- Disruptions impacting > 100 service connections or reported to the agency by phone 10% of the customers whichever is least must be
- All Type 3 or 4 disruptions require the submission of an after action report using the online reporting



Disruption of Service

- # of after hours calls has reduced
- Reporting. The online reporting tool has been modified for After Action
- Use of the tool required for Type 3 and 4 disruptions





Replacements in Areas with Lead Service Lines **Guideline for Water Line Repairs and**

- line known or likely to contain lead service For types 2, 3 and 4 the rule addresses repairs and replacements in areas with
- Agency worked with a sub-group of Ohio AWWA on guidance (PWS-06-001)
- with notification requirements of the Focuses on simultaneous compliance Disruption of Service and Lead & Copper



Guidelines for Water Line Repairs and Replacements in Areas with Lead Service Lines

NS-06-001

on of Drinking and Ground Water I: November 1, 2018



Treatment Unit Filter Requirements Lead and Copper

- Must offer filters for main replacements in the areas replacements is effective on 10/1/18. of lead service lines or on partial lead service line
- If you do full LSL replacement, no filters are required.
- Keep good records need them for maps and future lead monitoring and filter provision requirements



Lead and Copper

- Reorganizing website
- **Developing Optimal Corrosion Control Team**





Lead and Copper – WIIN Act

Water Infrastructure Improvements for the Nation Act (WIIN Act) Grant

 Addresses, supports and improves America's drinking water infrastructure

Programs:

- Includes three new drinking water grants that promote public health and the protection of the environment
- The budget for Fiscal Year 2018 includes appropriations in the Congressional Budget.



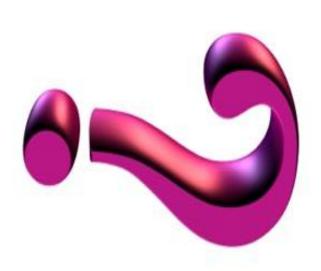
Lead and Copper – WIIN Act

- WIIN Act Section 2107: Lead Testing in School and Child Care Program Drinking Water
- USEPA allocated \$20 million dollars for testing only for lead in schools and daycares
- Non-competitive grant
- —ODH taking the lead
- Focusing on day cares since Ohio had the School Lead Fixture grant program during the last 2 years
- –All 50 states applied
- State allocations late March 2019
- May 20, 2019 State Workplans due



Federal Lead and Copper Rule

- Due in 2018
- Health Based drinking water number
- Requirements for school lead testing?
- 2019?





Asset Management Implementation

- Do NOT submit written documentation of your asset but maintain onsite management program to Ohio EPA unless requested
- Make sure your contingency plans and valve exercising programs are documented and up to date
- Sanitary survey questions added
- Capability screening is initial AMP review tool



Implementation Tools

- Guidance available for small systems, larger system guidance will be released soon, expectations will vary based on system type and complexity
- Templates available for very small systems
- Asset Management Webpage: asset-management http://epa.ohio.gov/ddagw/pws.aspx#113435168-



Funding for Asset Management

- Planning loans are available
- —Terms of 5 years at 0% interest
- Application accepted at any time





Laboratory Analysis and Reporting Rules

- Changes to Ohio Administrative Code Rule 3745-89-08 became effective May 1, 2018
- Previous version required different reporting deadlines for chemical and microbiological results
- Revised rule synchronizes reporting deadlines
- Lots of outreach to notify labs in 2018



OAC 3745-89-08 Revisions Analysis

Complete analysis (including QC) within 30 business days of receipt of sample

60 business days for radiologicals



OAC 3745-89-08 Revisions Reporting

- All chem and micro reported by the 10th day following business day requirement completion of analysis (including QC) unless next
- New next business day requirement;
- Detections of microcystins in raw water
- -All Pb & Cu results
- Seasonal startup total coliform results



Results Required Next Business Day

	New or Existing
Analyte/Result	Requirement
Positive total coliform result	Existing
Positive Escherichia coli result	Existing
Repeat total coliform result	Existing
Repeat Escherichia coli result	Existing
Seasonal startup microbiological result	New
Maximum contaminant level exceedance (all analytes)	Existing
Resample to confirm MCL	Existing
Detection of total microcystins in finished water	Existing
Detection of total microcystins in raw water	New
Detection of cylindrospermopsin gene	Existing
Detection of saxitoxin gene	Existing
Detection of anatoxin-a gene	Existing
All lead tap water results	New
All copper tap water results	New

Exceptions

- Monthly Operating Reports (MORs)
- —Unchanged
- —Due 10 days after the end of each month (OAC 3745-81-75)
- Water Quality Parameters
- –Updated with lead and copper rules (OAC 3745-81-90)
- —Due 10 days after the month when sample results were received by PWS.



PWS from client Sample received **Analysis and Reporting Timeline** QC) completed (including **Analysis OEPA** reported to Results **PWS** and

30 business days for Radiologicals) (60 business days 10 days unless a requirement next business day



General Reporting Tips

- Reporting tips document
- Reporting SOP for staff absences
- Ohio EPA review of COC and SOP
- Call Ohio EPA with questions
- Complete info from PWS client "When in doubt report it out"



Web Resources

- DDAGW Public Water System page
- http://www.epa.state.oh.us/ddagw/pws
- —PWS Monitoring Schedules
- –Apparent Violations
- —Program contacts
- –Current Advisories
- —Drinking Water Watch



Web Resources

- eMessage Subscriptions
- —https://www.epa.ohio.gov/ddagw/listserv.aspx
- Ohio EPA YouTube Page
- https://www.youtube.com/user/PIC1049



Manganese

- Second Early Stakeholder Outreach
- Clarifying acceptable treatment and assuring we are covering schools and daycares with sensitive populations
- UCMR 4 Monitoring



Disinfection Byproducts

- TTHM/HAA5 MCL exceedances are the most common health based violation
- Ohio has approximately 300 consecutive PWS
- 25% of consecutive PWS have experienced DBP MCL exceedances
- Consecutive PWS often have little control over the treatment of their water



Disinfection Byproducts Possible Rule Revisions

- Step-by-step approach to determine whether or not water leaving the wholesaler is high in DBPs
- Consecutive systems triggered into sampling at master meter(s) based on OEL exceedances
- If individual results > MCL, wholesaler triggered into sampling at same master meter(s)
- Joint OEL required if either PWS has individual DBPs > MCL
- Wholesaler monitoring locations become additional compliance locations if LRAA > MCL



Operational Evaluation Reports

- Evaluate treatment and distribution
- Operational practices
- Storage tank operations
- Excess storage capacity
- System flushing
- Changes in source water/quality
- Treatment changes
- Actions PWS will take and when



2018 Operator Workforce Summit

- Summit convened in September 2018
- Identified existing opportunities to assist in obtaining or developing certified operators
- Identified ideas for:
- Marketing the profession
- Educational opportunities
- Succession planning
- Training
- Shared services
- Final Report under career information tab on Opcert Website



Consumer Confidence Reports

- DDAGW has lots of resources available on our CCR web page to help PWS comply:
- https://www.epa.state.oh.us/ddagw/pws#113432740consumer-confidence-reports
- Tools were added for calculating contaminant levels for the table on our website
- Detections found during the 2018 UCMR sampling should be listed in a separate table in the CCR
- DDAGW CCR staff will provide draft reviews of CCRs if the submitted at CCR@epa.ohio.gov. drafts are submitted no later than May 15th. Draft CCRs can be



Water Quality Table 2016

		Control of the Contro	2003/C2002/2014/00/00/00/00/00/00/00/00/00/00/00/00/00					
Inorganic Contaminants	inants							
Barium	2016	ppin	2	2	0.02	0.02	no	Discharge of drilling wastes. Discharge from metal refineries, erosion of natural denosits
Fluoride	2016	ppm	4	4	1.29	0.84-1.29	no	Erosion of natural resources, additive which promotes strong teeth
Nitrates	2016	ppm	10	10	0.67	0.10-0.98	no	Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits
Microbiological								
Turbidity	2016	UTU	100% <0.3 NTU	NA	0.16 & 100%	0.06-0.16	no	soil runoff
Total Organic Carbon (TOC)	2016	none	N/A	removal >	1.08	1.0-1.76	no	normally present in environment
Total Coliform	2016	% positive	5%	0	0%	0	по	Bacteria Present in environment
Residual Disinfectant	ant							
Total Chlorine	2016	ppm	4.0 (MRDL)	4.0 (MRDLG)	1.54	1.11-1.76	no	water additive used to control microbes
Volatile Organic Contaminants	ontami	nants						
Total Trihalomethanes	2016	ppb	80	N/A	46	14.5-72.7	no	byproduct of drinking water chlorination
Haloacetic Acids	2016	ppb	60	N/A	24.2	6.7-49.4	no	byproduct of drinking water chlorination
Lead and Copper	Action level (AL)	Individual Results over the AL	al Results the AL	90% of tes	90% of test results were less than	Violation	Year Sampled	Typical Source of Contaminants
Lead (ppb)	15 ppb				ND	NO	2015	Corrosion of household plumbing fixtures, erosion of natural deposits
	out of	30 samples	were found	to have levels	out of 30 samples were found to have levels in excess of the lead action level of 15 ppb	lead action lev	el of 15 ppb	
Copper (ppm)	1.3 ppm			0	0.11	NO	2015	
	0 out of 3 ppm	0 samples v	were found t	to have levels	0 out of 30 samples were found to have levels in excess of the copper action level of 1.3 ppm	opper action le	vel of 1.3	Corrosion of household plumbing fixtures,
Microcystins								100
Microcystins	2016	1.6 :	0.3 Children under 6 1.6 anyone 6 or older	0.3 Children under 6 years .6 anyone 6 or older	ND	NA	по	Toxins produced by barmful aloal blooms
Radioactive Substances (PCI/L	(PCI/L							0
Gross Alpha	2015	pCi/L	15	0	ND	N/A	no	Erosion of natural deposits
Kadium 228	2015	pCi/L	15	0	NB	N/A	no	Erosion of natural deposits

Table of Detected Contaminants

- Only include detections
- Must include chlorine
- Include most recent detections from 3, 6 or 9 year sample schedules
- SW and their satellite systems must include turbidity
- For lead and copper include the number of samples over the AL out of the total number of samples AND list all individual results above



How to read the water quality table: the EPA establishes the safe drinking water regulations that limit the amount of contaminants allowed in drinking water. The table shows the concentrations of detected substances in comparison to regulatory limits. Substances not detected are not

Common CCR Mistakes

- Reporting the highest copper or lead result instead of the calculated 90th percentile
- Using the wrong units for a contaminant and the MCL/ MCLG (must use "CCR units")
- Missing detected contaminants (Barium, chlorine)
- Failing to provide a number to call to receive a paper copy of the CCR on the water bill
- Missing the source water susceptibility determination/how to get a copy of the report



AWIA (U.S. EPA Legislation)

- These are all federal requirements that US EPA will implement. Timetrame unknown.
- CCRs
- electronic delivery,
- 2x/yr for facilities serving >10,000
- Possible changes to report
- Into on corrosion control will be required
- Involuntary consolidation or sale
- US EPA given authority to require consolidation or sale of non compliant systems



AWIA (U.S. EPA Legislation)

- Risk Assessment and Emergency Response Plans
- Federal Register notice 3/27/19
- Systems certify compliance with the requirements to US EPA
- Additional guidance prior to 8/1/19
- Staggered deadlines based on facility size



Future Activities

- Rule Implementation
- Finding Efficiencies
- -Electronic Plans
- Integration of Asset Management
- More resilient and sustainable systems
- —Role Source Water Protection
- -Assists with emerging contaminant challenges



Questions?

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http://epa.ohio.gov/ddagw/

