

Regulatory Update

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HRPDC Joint Meeting
Utilities Directors & Health Directors
7 June 2017

Unregulated Contaminant Monitoring Rule 4

- Final Rule published 20 Dec 2016
- Participating waterworks will monitor for:
 - 10 cyanotoxins
 - 2 metals
 - 3 brominated HAA groups
 - 8 pesticides and 1 byproduct
 - 3 alcohols
 - 3 SVOCs
 - 2 indicator chemicals

UCMR 4 Monitoring

Some changes to the monitoring framework:

- Monitoring is year-round, except for cyanotoxins (those are July – October)
- Cyanotoxins – sampled at same time, but only analyzed sequentially (based on results) – no source water monitoring
- Only do DBP monitoring if you monitor DBPs under existing rules.

UCMR 4 Timeline

2017	2018	2019	2020	2021
Pre-monitoring Implementation <ul style="list-style-type: none"> • Continuation of Lab Approval • PWS SDWARS registration/notification/inventory • PAs, SMPs, SSIs, LSIs • GWRMP submittal • Outreach/trainings 	Assessment Monitoring List 1 Contaminants 			Post-monitoring Phase <ul style="list-style-type: none"> • Complete resampling • Conclude data reporting • Finalize NCOD • Continued enforcement
	Implementation Activities <ul style="list-style-type: none"> • Assist PWSs with compliance • Implement small system monitoring • Post data quarterly to NCOD 			
	Reporting and analysis of data <ul style="list-style-type: none"> • All large systems serving more than 10,000 people; • 800 SW and GWUDI small systems serving 10,000 or fewer people for cyanotoxins; • 800 small systems serving 10,000 or fewer people for the 20 additional contaminants. 			

From EPA , “UCMR 4 Stakeholders Meeting & Webinar”, Apr 2017

Waterworks Regulations 12VAC5-590

- Full Regulation Review / Revision
 - Regulatory Advisory Panel (RAP)
 - 18 to 24 Month (3 Step) process
 - Process has started up again
 - Next step is the NOIRA
 - Proposed regulation
 - Final regulation

LCR After Flint

Following the Flint “incident”:

1. Greater scrutiny of LCR sampling procedures
2. Greater emphasis on Water Quality Parameter (WQP) monitoring
3. A move for more transparency and public information

LCR Long-Term Revisions

We know it's coming – it's been in process for some time – NDWAC submitted their final report to EPA in Dec 2015

Expected Timeline:

- Proposed Rule to be published in the Federal Register later this year (2017)
- Final Rule published 2019 (maybe sooner?)
- Effective date 2021 (maybe sooner?)

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Bottom Line – LTR Drivers

- There is **NO** safe level of lead in drinking water!!
- Plumbing materials which contain lead pose a risk to public health at **ALL** times, not just when the Action Level is exceeded
- These materials need to be eliminated from the water infrastructure

A new rule won't solve the problem – and lots of parties will be involved, not just EPA and waterworks – health departments and customers

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Lead Service Line Replacement VDH Rebate Program

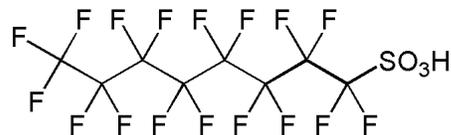
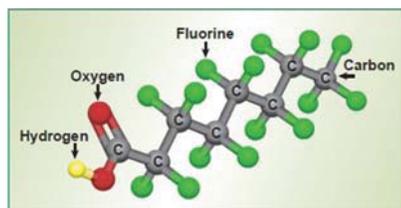
VDH is working to implement a program, funded through our DWSRF

- Will provide funds to waterworks that do FULL LSL replacement (from connection to main all the way to building)
- Done as a “reimbursement of expenses”
- Stakeholders group provided guidance to VDH on program guidelines
- Applications already accepted, under consideration

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Perfluorinated (and polyfluorinated) Compounds

Say What???



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PFCs (PFAS)

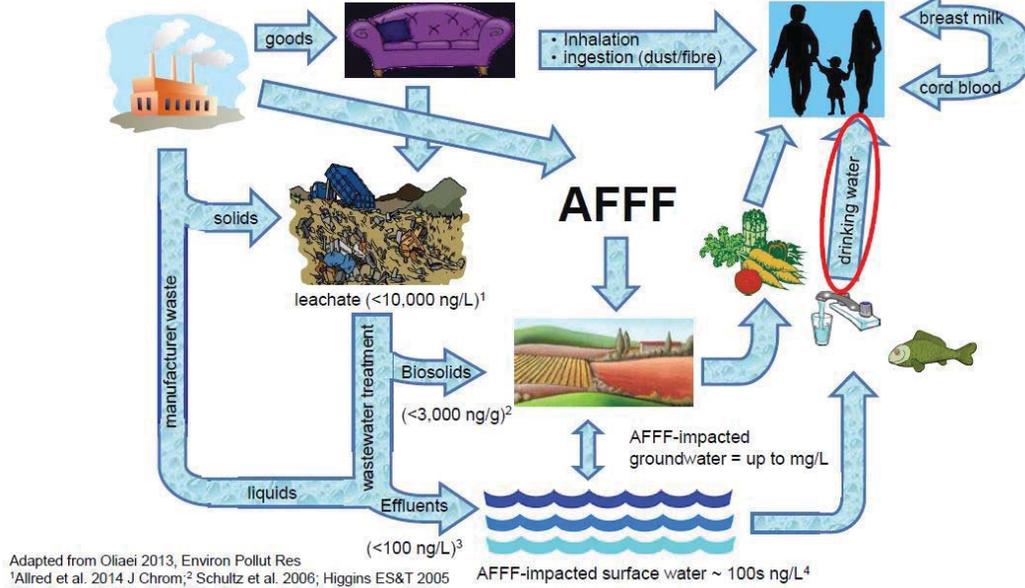
- Perfluorinated (or polyfluorinated) chemicals are a family of fluorinated organic chemicals – two main types – PFCAs and PFSA
- Extensively produced and used in many applications – a few examples:
 - Firefighting foam (AFFF)
 - Clothing, carpet protection
 - Food wrap and microwave popcorn bags
 - Teflon (and similar coatings)
- The best known examples are PFOA and PFOS

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Why the Concern?

- PFCs are persistent – don't break down naturally and are hard to remove from water – can move into the food chain
- Possible health effects currently indicated:
 - Developmental effects to fetuses or breast-fed infants
 - Kidney and liver effects (including cancer)
 - Immune effects (antibody production)
 - Thyroid effects

Exposure Routes



EPA's Health Advisories

- Issued on 16 May 2016 (replaced the 2009 provisional health advisory)
- Final Lifetime Health Advisories:
 - Covers PFOA , PFOS, and PFOA+PFOS – doesn't address any of the other PFCs
 - Exposure Pathway: oral ingestion of drinking water by pregnant or lactating women
 - Protects the most sensitive populations

Chemical	Advisory Level
PFOA	70 ng/L (ppt)
PFOS	70 ng/L (ppt)
PFOA + PFOS	70 ng/L (ppt)



Questions ?

