

# Regulatory Update

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HRPDC Joint Meeting  
Utilities Directors & Health Directors  
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## 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



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

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

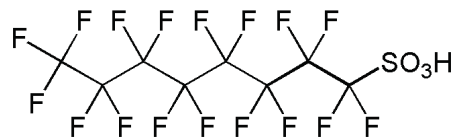
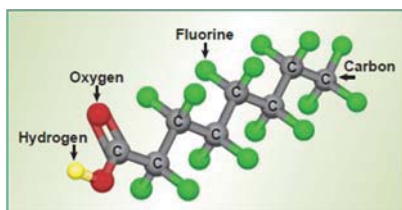
VDH is working to implement a program, funded through our DWSRF

- 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)

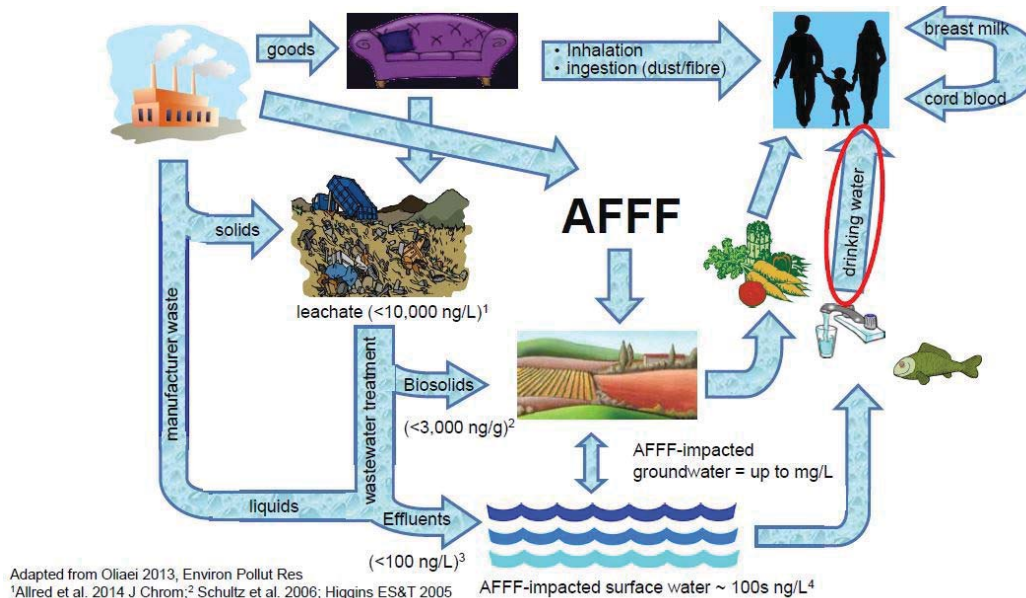
- Perfluorinated (or polyfluorinated) chemicals are a family of fluorinated organic chemicals – two main types – PFCAs and PFSA
- Extensively produced and used in many applications – a few examples:
  - Firefighting foam (AFFF)
  - Clothing, carpet protection
  - Food wrap and microwave popcorn bags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

