



UCMR Purpose



"To collect occurrence data for contaminants suspected to be present in drinking water but don't have health-based standards set under the Safe Drinking Water Act (SDWA)."*

- Drinking water occurrence information is used to support future regulatory actions to protect public health.
- Public will benefit from information about whether or not unregulated contaminants are present in their drinking water.

*EPA Fact Sheet EPA 815-F-12-003	
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UCMR1 History	
Samples collected between 2001.	-2003
> 26 Contaminants targeted. (2 List	:s)
 Major contaminants now present on some SDV 4,4'-DDE (a product of DDT; insecticide) MTBE (octane enhancer in unleaded gas) Nitrobenzene (used in drugs, herbicides, & dyes) Perchlorate (oxygen additive in solid fuel propellar) 	NA state lists: nt)
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UCMR3 History	
 Samples collected between 2013-3015 30 Contaminants targeted. (28 chemicals and 2 v 7 VOC's, 1 SOC, 6 Metals, 1 Anion, 6 PFC's, 7 Ho Viruses (some methods are dropped by labs) 1,2,3-TCP (cleaning & degreasing solvent; pesti- 1,1-dichloroethane (solvent / fumigant) 1,4 Dioxane (stabilizer for chlorinated solvents) PFC's (now called PFAS & we know all about the 	iruses) rmones, 2 cides) em)
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UCMR5 Timeline of Activities						
	2022	2023	2024	2025	2026	
	Pre-sampling Activity by EPA		Sampling Period		Post-sampling Activity	
	 Manage Lab Approval Program Organize Partnership Agreements and State Monitoring Plans Begin PWS SDWARS registration/ inventory Review GWRMP submittal Conduct outreach/trainings 	 EPA In Provid Impler Post d PWS Sample All larg people All sma and 10 800 sm 3,300 pm 	nplementation Ac e compliance assis nent small system ata quarterly to No Collection; Labora Reporting e systems serving n ; ill systems serving b ,000 people; nall systems serving people	tivities	 PWSs, Laboratories Complete resampling, as needed Conclude data reporting EPA Complete upload of UCMR 5 data to NCOD 	
💸 eurofins	Eaton Analytical	Courtesy to El	PA UCMR5 sha	reholder meet	ing presentation, 04/	06/2021. ₁₀

UCMR5 Scope



Assessment Monitoring: 30 Contaminants & Methods	25 PFAS compounds by EPA Method 533 4 PFAS compounds by EPA Method 537.1 Lithium by EPA Method 200.7, SM 3120 B (2017), SM 3120 B-99 (1999), or ASTM D1976-20
Very Small Systems (25 – 3,299)	800 randomly selected surface water (SW), ground water under the direct influence of surface water (GWUDI), and ground water (GW) systems. (EPA paying as long as funds are available.)
Small Systems (3,300 – 10,000)	All SW, GWUDI, and GW systems (~5,100) (EPA paying as long as funds are available.)
Large Systems (10,001 and over)	All SW, GWUDI, and GW systems (~4,400)
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29 PFAS for UCMR5 (2023-2025)					
	PFBA	PFPeA	PFHxA	PFHpA	PFOA
	PFNA	PFDA	PFUnA	PFDoA	PFBS
533	PFPeS	PFHxS	PFHpS	PFOS	PFEESA
	4:2 FTS	6:2 FTS	8:2 FTS	HFPO-DA*	ADONA
	9CI- PF3ONS	11CI- PF3OUdS	PFMBA	PFMPA	NFDHA
537.1	NEtFOSAA	NMeFOSAA	PFTrDA	PFTeDA	
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UCMR5 Sampling Highlights (Cont'd)	
FRBs are to be extracted and analyzed only if the associated fie has detects above the reporting limit. (See next slide.)	ld sample
 Within 90 days of sample collection: Laboratories post monitori results to EPA's electronic reporting system, SDWARS. Within 30 days of lab posting data: PWSs serving more than 10 	ng
people may review and approve data.	
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U	CMR5 Conclusions	
\blacktriangleright	EPA Methods 537.1 is one of two current methods commonly used for drinking water analyses. (It is also used for all aqueous matrices.)	
\checkmark	EPA Method 533 is only suitable for finished drinking waters or pristing non-potable water. (Some states offer certification for this method. In northeast: NJ, NY, PA)	Э
	Careful attention should be given to Field Sample / Field Reagent Blanl bottles to avoid possible issues with data.	K
	UCMR5 PFAS Method Reporting Limits are equal to or slightly higher than the current laboratory MRLs.	
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Shipping Instructions	
If samples are being sent directly to the testing lab, make sure they are overnighted to the testing lab.	
Maximum temperature of samples can be 10 degrees C within 48 hours of collection	
If samples not received within 48 hours, then sample temp must be 6 degrees or less.	
Maximum hold time to start analysis is 14 days for method 537.1, 28 days for method 533, and 45 days for Lithium.	
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