

The Fourth Unregulated Contaminant Monitoring Rule (UCMR 4)

HAA Groups – Fact Sheet for Assessment Monitoring

Overview

EPA published the “Revisions to the Unregulated Contaminant Monitoring Rule (UCMR 4) for Public Water Systems and Announcement of Public Meeting” on December 20, 2016 (81 FR 92666). UCMR 4 includes Assessment Monitoring for a total of 30 chemical contaminants including three brominated haloacetic acid (HAA) disinfection byproducts groups (shown in the table at right) and two associated indicators (total organic carbon (TOC) and bromide). UCMR 4 also requires Assessment Monitoring for:

- Nine cyanotoxins and one cyanotoxin group.
- 17 additional contaminants: two metals; eight pesticides plus one pesticide manufacturing byproduct; three alcohols; and three semivolatile organic chemicals.

Monitoring under UCMR 4 will occur from 2018-2020. For more information on these contaminants, please refer to the respective [UCMR 4 Fact Sheets](#).

HAA Groups			
Dichloroacetic acid (DCAA)	HAA5		HAA9
Monochloroacetic acid (MCAA)			
Trichloroacetic acid (TCAA)			
Monobromoacetic acid (MBAA)	HAA6Br		
Dibromoacetic acid (DBAA)			
Bromochloroacetic acid (BCAA)			
Bromodichloroacetic acid (BDCAA)			
Chlorodibromoacetic acid (CDBAA)			
Tribromoacetic acid (TBAA)			

Assessment Monitoring (HAA Groups)

- **Applicable Water Systems:** Community water systems (CWSs) and non-transient non-community water systems (NTNCWSs) serving more than 10,000 retail customers (i.e., large systems), and a representative sample of 800 CWSs and NTNCWSs serving 10,000 or fewer retail customers (i.e., small systems). UCMR 4 HAA monitoring **only applies** to public water systems (PWSs) that are subject to Disinfectants and Disinfection Byproduct Rules (D/DBPRs) HAA5 monitoring requirements.
- **Timeframe and Frequency:** For surface water (SW) and ground water under the direct influence of surface water (GWUDI) systems, sampling will take place for four consecutive quarters over the course of 12 months; a total of four sampling events that occur three months apart. For ground water (GW) systems, sampling will take place twice over the course of 12 months; a total of two sampling events that occur five to seven months apart.
- **Monitoring Locations:**
 - **HAA Groups:** Taken at the D/DBPRs sampling locations described in 40 CFR 141.622. UCMR 4 HAA samples and D/DBPRs HAA5 compliance monitoring samples may be collected by the PWS at the same time (see below regarding laboratory and method requirements). See the [Quick Reference Guides for Stage 1 and Stage 2 D/DBPRs](#) for more information about the HAA5 compliance monitoring requirements.

- **TOC and Bromide:** Taken at source water influent locations representing untreated water entering the water treatment plant (i.e., a location prior to any treatment). Must be collected at the same time as HAA samples.
 - SW and GWUDI systems subject to the D/DBPR TOC monitoring must use their D/DBPRs TOC source water sampling site(s) from 40 CFR 141.132.
 - SW and GWUDI systems that are not subject to D/DBPRs TOC monitoring must use their [Long Term 2 Enhanced Surface Water Treatment Rule \(LT2\)](#) source water sampling site(s) (40 CFR 141.703).
 - GW systems that are subject to the D/DBPRs collect TOC and bromide samples at the influents entering their treatment train.
 - Consecutive systems (PWSs that purchase 100 percent of their water) are not required to collect source water samples for TOC or bromide analyses.
- **Laboratories:** UCMR 4 HAA samples must be analyzed by a UCMR 4 [EPA UCMR approved laboratory](#) using EPA Method 552.3 or 557 (both of which are compliance methods also approved for analysis of D/DBPRs samples). TOC and bromide must be analyzed by methods already approved for compliance monitoring. For additional information on the D/DBPRs compliance methods, see CFR 141.131(d). Minimum Reporting Levels (MRLs) for the individual HAAs are provided (40 CFR 141.40(a)(5)(v)) for quality control purposes. The HAA5 group is currently regulated in drinking water at a maximum contaminant level (MCL) of 60 µg/L; all are disinfection by-products.
 - Note: laboratories (including PWS laboratories) that wish to exclusively analyze TOC and/or bromide samples do not need to undergo all of the steps for UCMR 4 laboratory approval. Rather, they must email UCMR_Sampling_Coordinator@epa.gov by December 1, 2017 to register for the Lab Approval Program. Next, the PWS laboratory must complete the registration and submit documentation that they are authorized by their primacy state to analyze TOC and/or bromide compliance monitoring samples under the D/DBPRs by December 15, 2017.
- **Occurrence Data:** The analytical results from UCMR 4 are stored in the [National Contaminant Occurrence Database \(NCOD\)](#). For a summary of the NCOD results, tips for querying NCOD, and health effects information (including reference concentrations, where available), please refer to the [UCMR 4 Data Summary document](#).

Critical Deadlines and Requirements

Following Rule Publication

Due Date	Requirement	Report through SDWARS ¹	Contact Sampling Coordinator ²
December 31, 2017	Large systems must update contact information, zip code(s), sampling location(s), inventory information and monitoring schedule. With the exception of monitoring schedule changes, any subsequent changes must be submitted within 30 days of the change occurring. EPA will coordinate with the small systems to collect the contact information, zip code(s) and inventory information. After December 31, 2017, systems must provide an explanation for any requested schedule change and obtain EPA approval of the change.	X	X (after December 31, 2017)
February 21, 2017	Laboratories seeking approval must submit a registration form to participate in the laboratory approval process.		X
April 19, 2017	Laboratories must complete and submit the necessary laboratory approval application materials.		X

Following Sample Collection

Due Date	Requirement	Report through SDWARS ¹	Contact Sampling Coordinator ²
Within 120 days of sample collection	Laboratories post data to SDWARS.	X	
Within 60 days of lab posting data	PWSs review and approve the data. If the PWS has not taken action after 60 days, the data are considered approved and ready for state and EPA review.	X	

1. [Safe Drinking Water Accession and Review System](#).
2. Contact via email at UCMR_Sampling_Coordinator@epa.gov.

Data Elements

EPA will collect the following data elements via SDWARS 4, an updated version of the data reporting system used in previous UCMR actions.

Public Water System Identification (PWSID) Code	Sampling Point Identification Code	Sample Collection Date	Analysis Batch Identification Code	Laboratory Identification Code
Public Water System Name	Sampling Point Name	Sample Identification Code	Analysis Date	Sample Event Code
Public Water System Facility Identification Code	Sampling Point Type Code	Contaminant	Sample Analysis Type	
Public Water System Facility Name	Disinfectant Type	Analytical Method Code	Analytical Results–Sign	
Public Water System Facility Type	Treatment Information	Extraction Batch Identification Code	Analytical Result–Measured Value	
Water Source Type	Disinfectant Residual Type	Extraction Date	Additional Value	

Additional Information

The [Public Notification Rule](#) (40 CFR 141.207) requires PWSs to notify the persons served of the availability of the results no later than 12-months after monitoring results are known. CWSs may include their public notice within their Consumer Confidence Reports (CCRs).

Under the [Consumer Confidence Report \(CCR\) Rule](#) (40 CFR 141.153(d)) requires CWSs to report the monitoring results whenever unregulated contaminants are detected. CCRs are to be sent to all billing customers each year by July 1. (The CCR Rule does not apply to non-community water systems). To obtain a copy of your CCR, you should contact your water supplier or you may find information for how to obtain a copy of the CCR in your water bill. Additional information about the CCR including details on reporting requirements can be found on the [CCR Homepage](#).

For More Information

- [Safe Drinking Water Hotline](#): 1-800-426-4791
- [CDX/SDWARS Help Desk](#): 1-888-890-1995
- [UCMR Homepage](#)