



National Primary Drinking Water Regulation Crosswalk

Control of Per- and Polyfluoroalkyl
Substances (PFAS)

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SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
Part 141 National Primary Drinking Water Regulations			
Subpart A—General			
40 CFR 141.2 Definitions.			
<i>Hazard index (HI)</i> is the sum of component hazard quotients (HQs), which are calculated by dividing the measured regulated PFAS component contaminant concentration in water (e.g., expressed as parts per trillion (ppt) or nanograms per liter (ng/l)) by the associated Health-Based Water Concentration (HBWC) expressed in the same units as the measured concentration (e.g., ppt or ng/l). For PFAS, a mixture Hazard Index greater than 1 (unitless) is an exceedance of the MCL.	40 CFR 141.2		
<i>Hazard quotient (HQ)</i> means the ratio of the measured concentration in drinking water to the health-based water concentration (HBWC).	40 CFR 141.2		
<i>Health-based water concentration (HBWC)</i> means level below which there are no known or anticipated adverse health effects over a lifetime of exposure, including sensitive populations and life stages, and allows for an adequate margin of safety.	40 CFR 141.2		
<i>HFPO-DA or GenX chemicals</i> means Chemical Abstract Service registration number 122499-17-6, chemical formula C6F11O3-, International Union of Pure and Applied Chemistry preferred name 2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propanoate, along with its conjugate acid and any salts, derivatives, isomers, or combinations thereof.	40 CFR 141.2		
<i>PFBS</i> means Chemical Abstract Service registration number 45187-15-3, chemical formula C4F9SO3-, perfluorobutane sulfonate, along with its conjugate acid and any salts, derivatives, isomers, or combinations thereof.	40 CFR 141.2		
<i>PFHxS</i> means Chemical Abstract Service registration number 108427-53-8, chemical formula C6F13SO3-, perfluorohexane sulfonate, along with its conjugate acid and any salts, derivatives, isomers, or combinations thereof.	40 CFR 141.2		
<i>PFNA</i> means Chemical Abstract Service registration number 72007-68-2, chemical formula C9F17O2-, perfluorononanoate, along with its conjugate acid and any salts, derivatives, isomers, or combinations thereof.	40 CFR 141.2		

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<i>PFOA</i> means Chemical Abstract Service registration number 45285-51-6, chemical formula C ₈ F ₁₅ O ₂ –, perfluorooctanoate, along with its conjugate acid and any salts, derivatives, isomers, or combinations thereof.	40 CFR 141.2		
<i>PFOS</i> means Chemical Abstract Service registration number 45298-90-6, chemical formula C ₈ F ₁₇ SO ₃ –, perfluorooctanesulfonate, along with its conjugate acid and any salts, derivatives, isomers, or combinations thereof.	40 CFR 141.2		
40 CFR 141.6 Effective dates.			
Except as provided in paragraphs (b) through (l) of this section the regulations set forth in this part take effect on June 24, 1977.	40 CFR 141.6(a)		
The regulations pertaining to the per- and polyfluoroalkyl substances (PFAS) chemicals set forth in subpart Z of this part are effective June 25, 2024. See § 141.900 for the compliance dates for provisions under subpart Z. Compliance with reporting requirements under subpart Z, in accordance with subparts O (the consumer confidence rule) and Q (the public notification rule) of this part are required on April 26, 2027, except for notification requirements in § 141.203 related to violations of the MCLs. The compliance date for the PFAS MCLs in § 141.61, as specified in § 141.60, and for § 141.203 notifications of violations of the PFAS MCLs is April 26, 2029.	40 CFR 141.6(l)		
Subpart C—Monitoring and Analytical Requirements			
40 CFR 141.24 Organic chemicals, sampling and analytical requirements.			
Analysis of the contaminants listed in § 141.61(c) for the purposes of determining compliance with the maximum contaminant level shall be conducted as follows, with the exceptions that this paragraph (h) does not apply to regulated PFAS (see § 141.902) and no monitoring is required for aldicarb, aldicarb sulfoxide or aldicarb sulfone:	40 CFR 141.24(h)		
40 CFR 141.28 Certified laboratories.			
For the purpose of determining compliance with §§ 141.21 through 141.27, 141.40, 141.74, 141.89, 141.402, 141.901, and 141.902, samples may be considered only if they have been analyzed by a laboratory certified by EPA or the State except that measurements of alkalinity, disinfectant residual, orthophosphate, pH, silica, temperature, and turbidity may be performed by any person acceptable to the State.	40 CFR 141.28(a)		

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Appendices to Subpart C of 141																									
Alternative Testing Methods for Initial Monitoring Only of Contaminants Listed at 40 CFR 141.901(b)(1)																									
<table border="1"> <thead> <tr> <th data-bbox="107 472 594 586">Contaminant</th> <th data-bbox="598 472 869 586">Methodology</th> <th data-bbox="873 472 1241 586">EPA Method (incorporated by reference, see paragraph (a) of this section)</th> </tr> </thead> <tbody> <tr> <td data-bbox="107 589 594 630">Perfluorobutane Sulfonate (PFBS)</td> <td data-bbox="598 589 869 630">SPE LC-MS/MS</td> <td data-bbox="873 589 1241 630">537.1 version 1.0.⁷⁰</td> </tr> <tr> <td data-bbox="107 633 594 673">Perfluorohexane Sulfonate (PFHxS)</td> <td data-bbox="598 633 869 673">SPE LC-MS/MS</td> <td data-bbox="873 633 1241 673">537.1 version 1.0.⁷⁰</td> </tr> <tr> <td data-bbox="107 677 594 717">Perfluorononanoate (PFNA)</td> <td data-bbox="598 677 869 717">SPE LC-MS/MS</td> <td data-bbox="873 677 1241 717">537.1 version 1.0.⁷⁰</td> </tr> <tr> <td data-bbox="107 721 594 761">Perfluorooctanesulfonic Acid (PFOS)</td> <td data-bbox="598 721 869 761">SPE LC-MS/MS</td> <td data-bbox="873 721 1241 761">537.1 version 1.0.⁷⁰</td> </tr> <tr> <td data-bbox="107 764 594 805">Perfluorooctanoic Acid (PFOA)</td> <td data-bbox="598 764 869 805">SPE LC-MS/MS</td> <td data-bbox="873 764 1241 805">537.1 version 1.0.⁷⁰</td> </tr> <tr> <td data-bbox="107 808 594 902">2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)</td> <td data-bbox="598 808 869 902">SPE LC-MS/MS</td> <td data-bbox="873 808 1241 902">537.1 version 1.0.⁷⁰</td> </tr> </tbody> </table>	Contaminant	Methodology	EPA Method (incorporated by reference, see paragraph (a) of this section)	Perfluorobutane Sulfonate (PFBS)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰	Perfluorohexane Sulfonate (PFHxS)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰	Perfluorononanoate (PFNA)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰	Perfluorooctanesulfonic Acid (PFOS)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰	Perfluorooctanoic Acid (PFOA)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰		Appendix A to Subpart C of Part 141 ^a		
Contaminant	Methodology	EPA Method (incorporated by reference, see paragraph (a) of this section)																							
Perfluorobutane Sulfonate (PFBS)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰																							
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2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)	SPE LC-MS/MS	537.1 version 1.0. ⁷⁰																							
<p>⁷⁰ EPA Method 537.1, Version 1.0. "Determination of Selected Per- and Polyfluorinated Alkyl Substances (PFAS) in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)." November 2018. EPA/600/R-18/352. Approved as alternative testing method to support initial PFAS monitoring (for monitoring-frequency determinations) until April 26, 2027 as described at 40 CFR 141.902(b)(1) [Monitoring requirements for PFAS—Initial monitoring]. Available at the National Service Center for Environmental Publications at https://www.epa.gov/nscep.</p>																									
Subpart F—Maximum Contaminant Level Goals for Organic Contaminants.																									
40 CFR 141.50 Maximum contaminant level goals for organic contaminants.																									
PFOA.	40 CFR 141.50(a)(24)																								

^a Note: On January 16, 2025, the EPA amended Appendix A to subpart C of Part 141 to Alternative Testing Methods for Contaminants Listed at 40 CFR 141.901(b)(1) to add EPA Method 537.1, Version 1.0 as an approved alternative testing method to support initial PFAS monitoring (for monitoring-frequency determinations) until April 26, 2027 [90 FR 4658].

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PFOS.		40 CFR 141.50(a)(25)		
Contaminant	MCLG in mg/l (unless otherwise noted)	40 CFR 141.50(b)(34-37)		
* * * * *	*			
Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	1 (unitless) ¹ .			
HFPO-DA	0.00001.			
PFHxS	0.00001.			
PFNA	0.00001.			
<p>1. The PFAS Mixture Hazard Index (HI) is the sum of component hazard quotients (HQs), which are calculated by dividing the measured component PFAS concentration in water by the corresponding contaminant's health-based water concentration (HBWC) when expressed in the same units (shown in ng/l). The HBWC for PFHxS is 10 ng/l; the HBWC for HFPO-DA is 10 ng/l; the HBWC for PFNA is 10 ng/l; and the HBWC for PFBS is 2000 ng/l. A PFAS Mixture Hazard Index greater than 1 (unitless) indicates an exceedance of the health protective level and indicates potential human health risk from the PFAS mixture in drinking water.</p> <p>Hazard Index = $(\frac{\text{HFPO-DA}_{\text{water}} \text{ ng/l}}{10 \text{ ng/l}}) + (\frac{\text{PFBS}_{\text{water}} \text{ ng/l}}{2000 \text{ ng/l}}) + (\frac{\text{PFNA}_{\text{water}} \text{ ng/l}}{10 \text{ ng/l}}) + (\frac{\text{PFHxS}_{\text{water}} \text{ ng/l}}{10 \text{ ng/l}})$</p> <p>HBWC = health-based water concentration HQ = hazard quotient ng/l = nanograms per liter PFAS_{water} = the concentration of a specific PFAS in water</p>				
Subpart G—National Primary Drinking Water Regulations: Maximum Contaminant Levels and Maximum Residual Disinfectant Levels				
40 CFR 141.60 Effective dates.				
The effective date for § 141.61(c)(2)(i) through (vii) is April 26, 2029.		40 CFR 141.60(a)(4) ^b		

^b Note: Language was amended on June 11, 2024, pursuant to technical correction published at 89 FR 49101.

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40 CFR 141.61 Maximum contaminant levels for organic contaminants.												
<p>The following maximum contaminant levels for volatile organic contaminants apply to community and non-transient, non-community water systems.</p> <p>Table 1 to Paragraph (a)—Maximum Contaminant Levels for Volatile Organic Contaminants</p> <p>*****</p>	40 CFR 141.61(a) ^c											
<p>The Administrator, pursuant to section 1412 of the Act, hereby identifies as indicated in table 2 to paragraph (b) of this section granular activated carbon (GAC), packed tower aeration (PTA), or oxidation (OX) as the best technology, treatment technique, or other means available for achieving compliance with the maximum contaminant level for organic contaminants identified in paragraphs (a) and (c) of this section, except for per- and polyfluoroalkyl substances (PFAS).</p> <p>Table 2 to Paragraph (b)—BAT for Organic Contaminants in § 141.61 (a) and (c), Except for PFAS</p> <p>*****</p>	40 CFR 141.61(b) ^d											
<p>The following maximum contaminant levels (MCLs) in paragraphs (c)(1) and (2) of this section for synthetic organic contaminants apply to community water systems and non-transient, non-community water systems; paragraph (c)(2) of this section also contains health-based water concentrations (HBWCs) for selected per- and poly-fluoroalkyl substances (PFAS) used in calculating the Hazard Index.</p>	40 CFR 141.61(c) ^e											
<p>Paragraph (c)(1)—MCLs for Synthetic Organic Contaminants, Except for PFAS.</p> <table border="1" data-bbox="115 1170 945 1295"> <thead> <tr> <th>CAS No.</th> <th>Contaminant</th> <th>MCL (mg/l)</th> </tr> </thead> <tbody> <tr> <td>(i) 15972-60-8</td> <td>Alachlor</td> <td>0.002</td> </tr> <tr> <td>(ii) 116-06-3</td> <td>Aldicarb</td> <td>0.003</td> </tr> </tbody> </table>	CAS No.	Contaminant	MCL (mg/l)	(i) 15972-60-8	Alachlor	0.002	(ii) 116-06-3	Aldicarb	0.003	40 CFR 141.61(c)(1) ^f		
CAS No.	Contaminant	MCL (mg/l)										
(i) 15972-60-8	Alachlor	0.002										
(ii) 116-06-3	Aldicarb	0.003										

^c Note: The EPA added the word "volatile" to the first sentence and assigned a table name and number to the first table.

^d Note: The EPA only changed the end of the last quoted sentence and the table heading.

^e Note: The sentence introducing 40 CFR 141.61(c) was amended in a June 11, 2024, technical correction to introduce a second paragraph for PFAS.

^f Note: The MCLs listed in this portion of the CFR were not changed, but the designation was changed pursuant to 89 FR 49101 to subparagraph (c)(1).

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(iii) 1646-87-3	Aldicarb sulfoxide	0.004			
(iv) 1646-87-4	Aldicarb sulfone	0.002			
(v) 1912-24-9	Atrazine	0.003			
(vi) 1563-66-2	Carbofuran	0.04			
(vii) 57-74-9	Chlordane	0.002			
(viii) 96-12-8	Dibromochloropropane	0.0002			
(ix) 94-75-7	2,4-D	0.07			
(x) 106-93-4	Ethylene dibromide	0.00005			
(xi) 76-44-8	Heptachlor	0.0004			
(xii) 1024-57-3	Heptachlor epoxide	0.0002			
(xiii) 58-89-9	Lindane	0.0002			
(xiv) 72-43-5	Methoxychlor	0.04			
(xv) 1336-36-3	Polychlorinated biphenyls	0.0005			
(xvi) 87-86-5	Pentachlorophenol	0.001			
(xvii) 8001-35-2	Toxaphene	0.003			
(xviii) 93-72-1	2,4,5-TP	0.05			
(xix) 50-32-8	Benzo[a]pyrene	0.0002			
(xx) 75-99-0	Dalapon	0.2			
(xxi) 103-23-1	Di(2-ethylhexyl) adipate	0.4			
(xxii) 117-81-7	Di(2-ethylhexyl) phthalate	0.006			
(xxiii) 88-85-7	Dinoseb	0.007			
(xxiv) 85-00-7	Diquat	0.02			
(xxv) 145-73-3	Endothall	0.1			
(xxvi) 72-20-8	Endrin	0.002			
(xxvii) 1071-53-6	Glyphosate	0.7			
(xxviii) 118-74-1	Hexachlorobenzene	0.001			
(xxix) 77-47-4	Hexachlorocyclopentadiene	0.05			

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(xxx) 23135-22-0	Oxamyl (Vydate)		0.2			
(xxxi) 1918-02-1	Picloram		0.5			
(xxxii) 122-34-9	Simazine		0.004			
(xxxiii) 1746-01-6	2,3,7,8-TCDD (Dioxin)		3×10^{-8}			
Paragraph (c)(2) MCLs and HBWCs for PFAS.				40 CFR 141.61(c)(2) ⁶		
CAS. No.	Contaminant	MCL (mg/l) (unless otherwise noted)	HBWC (mg/l) for hazard index calculation			
(i) Not applicable	Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	1 (unitless) ¹	Not applicable			
(ii) 122499-17-6	HFPO-DA	0.00001	0.00001			
(iii) 45187-15-3	PFBS	No individual MCL	0.002			
(iv) 108427-53-8	PFHxS	0.00001	0.00001			
(v) 72007-68-2	PFNA	0.00001	0.00001			
(vi) 45285-51-6	PFOA	0.0000040	Not applicable			
(vii) 45298-90-6	PFOS	0.0000040	Not applicable			
1. The PFAS Mixture Hazard Index (HI) is the sum of component hazard quotients (HQs), which are calculated by dividing the measured component PFAS concentration in water by the relevant health-based water concentration when expressed in the same units (shown in ng/l for simplification). The HBWC for PFHxS is 10 ng/l; the HBWC for HFPO-DA is 10 ng/l; the HBWC for PFNA is 10 ng/l; and the HBWC for PFBS is 2000 ng/l.						

⁶ Note: This new content was originally listed on April 26, 2024, as a new table, then redesignated subparagraph (c)(2) in the technical correction published on June 11, 2024.

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<p>Hazard Index = $([HFPO-DA_{water} \text{ ng/l}]/[10 \text{ ng/l}]) + ([PFBS_{water} \text{ ng/l}]/[2000 \text{ ng/l}]) + ([PFNA_{water} \text{ ng/l}]/[10 \text{ ng/l}]) + ([PFHxS_{water} \text{ ng/l}]/[10 \text{ ng/l}])$ HBWC = health-based water concentration HQ = hazard quotient ng/l = nanograms per liter PFAS_{water} = the concentration of a specific PFAS in water</p>																	
<p>The Administrator, pursuant to section 1412 of the Act, hereby identifies in table 3 to this paragraph (d) the best technology, treatment technique, or other means available for achieving compliance with the maximum contaminant levels for all regulated PFAS identified in paragraph (c) of this section:</p> <p>Table 3 to Paragraph (d)—Best Available Technologies for PFAS Listed in Paragraph (c) of This Section</p> <table border="1" data-bbox="115 829 1241 1328"> <thead> <tr> <th>Contaminant</th> <th>BAT</th> </tr> </thead> <tbody> <tr> <td>Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>HFPO-DA</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFHxS</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFNA</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFOA</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFOS</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> </tbody> </table>	Contaminant	BAT	Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	Anion exchange, GAC, reverse osmosis, nanofiltration.	HFPO-DA	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFHxS	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFNA	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFOA	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFOS	Anion exchange, GAC, reverse osmosis, nanofiltration.	40 CFR 141.61(d) ^h		
Contaminant	BAT																
Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	Anion exchange, GAC, reverse osmosis, nanofiltration.																
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PFOS	Anion exchange, GAC, reverse osmosis, nanofiltration.																

^h Note: The table number originally assigned to this new table on April 26, 2024, was amended on June 11, 2024 (see 89 FR 49101).

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<p>The Administrator, pursuant to section 1412 of the Act, hereby identifies in table 4 to this paragraph (e) the affordable technology, treatment technique, or other means available to systems serving 10,000 persons or fewer for achieving compliance with the maximum contaminant levels for all regulated PFAS identified in paragraph (c) of this section:</p> <p>Table 4 to Paragraph (e)—Small System Compliance Technologies (SSCTs) for PFAS</p> <table border="1" data-bbox="115 573 947 773"> <thead> <tr> <th data-bbox="115 573 527 651">Small System Compliance Technology¹</th> <th data-bbox="531 573 947 651">Affordable for Listed Small System Categories²</th> </tr> </thead> <tbody> <tr> <td data-bbox="115 654 527 691">Granular Activated Carbon</td> <td data-bbox="531 654 947 691">All size categories.</td> </tr> <tr> <td data-bbox="115 695 527 732">Anion Exchange</td> <td data-bbox="531 695 947 732">All size categories.</td> </tr> <tr> <td data-bbox="115 735 527 773">Reverse Osmosis, Nanofiltration³</td> <td data-bbox="531 735 947 773">3,301 – 10,000.</td> </tr> </tbody> </table> <p>1. Section 1412(b)(4)(E)(ii) of SDWA specifies that SSCTs must be affordable and technically feasible for small systems.</p> <p>2. The Act (ibid.) specifies three categories of small systems: (i) those serving 25 or more, but fewer than 501, (ii) those serving more than 500, but fewer than 3,301, and (iii) those serving more than 3,300, but fewer than 10,001.</p> <p>3. Technologies reject a large volume of water and may not be appropriate for areas where water quantity may be an issue.</p>	Small System Compliance Technology ¹	Affordable for Listed Small System Categories ²	Granular Activated Carbon	All size categories.	Anion Exchange	All size categories.	Reverse Osmosis, Nanofiltration ³	3,301 – 10,000.	40 CFR 141.61(e) ⁵		
Small System Compliance Technology ¹	Affordable for Listed Small System Categories ²										
Granular Activated Carbon	All size categories.										
Anion Exchange	All size categories.										
Reverse Osmosis, Nanofiltration ³	3,301 – 10,000.										

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)						
Subpart O—Consumer Confidence Reports									
40 CFR 141.151 Purpose and applicability of this subpart.									
For the purpose of this subpart, detected means: at or above the levels prescribed by § 141.23(a)(4) for inorganic contaminants, at or above the levels prescribed by § 141.24(f)(7) for the contaminants listed in § 141.61(a), at or above the levels prescribed by § 141.24(h)(18) for the contaminants listed in § 141.61(c) (except PFAS), at or above the levels prescribed by § 141.131(b)(2)(iv) for the contaminants or contaminant groups listed in § 141.64, at or above the levels prescribed by § 141.25(c) for radioactive contaminants, and at or above the levels prescribed in § 141.902(a)(5) for PFAS listed in § 141.61(c).	40 CFR 141.151(d)								
40 CFR 141.153 Content of the reports.									
<i>Hazard Index or HI.</i> The Hazard Index is an approach that determines the health concerns associated with mixtures of certain PFAS in finished drinking water. Low levels of multiple PFAS that individually would not likely result in adverse health effects may pose health concerns when combined in a mixture. The Hazard Index MCL represents the maximum level for mixtures of PFHxS, PFNA, HFPO-DA, and/or PFBS allowed in water delivered by a public water system. A Hazard Index greater than 1 requires a system to take action.	40 CFR 141.153(c)(3)(v)								
Appendices to Subpart O of Part 141									
Appendix A to Subpart O of Part 141—Regulated Contaminants									
Contaminant (units)	Traditional MCL in mg/L	To convert for CCR, multiply by	MCL in CCR units	MCLG	Major sources in drinking water	Health effects language	Appendix A to Subpart O of Part 141 ⁱ		

ⁱ Note: Rows are added for PFAS contaminants in alphabetical order under Synthetic Organic Contaminants. Control of Per- and Polyfluoroalkyl Substances (PFAS) – Primacy Crosswalk

SUMMARY OF FEDERAL REQUIREMENT							FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
Synthetic organic contaminants including pesticides and herbicides:	*	*	*	*	*	*			

Hazard Index PFAS (HFPODA, PFBS, PFHxS, and PFNA) (unitless)	1 (unitless)		1	1	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities	Per- and polyfluoroalkyl substances (PFAS) can persist in the human body and exposure may lead to increased risk of adverse health effects. Low levels of multiple PFAS that individually would not likely result in increased risk of adverse health effects may result in adverse health effects when combined in a mixture. Some people who consume drinking water containing mixtures of PFAS in excess of the Hazard Index (HI) MCL may have increased health risks such as liver, immune, and thyroid effects following exposure over many years and developmental and thyroid effects following repeated exposure during pregnancy and/or childhood.			
HFPO-DA (ng/l)	0.00001	1,000,000	10	10	Discharge from manufacturing and industrial	Some people who drink water containing HFPODA in excess of the MCL over many years may			

SUMMARY OF FEDERAL REQUIREMENT						FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
					chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities	have increased health risks such as immune, liver, and kidney effects. There is also a potential concern for cancer associated with HFPO-DA exposure. In addition, there may be increased risks of developmental effects for people who drink water containing HFPODA in excess of the MCL following repeated exposure during pregnancy and/or childhood.		

PFHxS (ng/l)	0.00001	1,000,000	10	10	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities	Some people who drink water containing PFHxS in excess of the MCL over many years may have increased health risks such as immune, thyroid, and liver effects. In addition, there may be increased risks of developmental effects for people who drink water containing PFHxS in excess of the MCL following repeated exposure during pregnancy and/or childhood.		
PFNA (ng/l)	0.00001	1,000,000	10	10	Discharge from manufacturing and industrial chemical facilities, use of certain	Some people who drink water containing PFNA in excess of the MCL over many years may have increased health risks such as elevated cholesterol levels, immune effects, and liver effects. In addition, there		

SUMMARY OF FEDERAL REQUIREMENT						FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
					consumer products, occupational exposures, and certain firefighting activities	may be increased risks of developmental effects for people who drink water containing PFNA in excess of the MCL following repeated exposure during pregnancy and/or childhood.		
PFOA (ng/l)	0.0000040	1,000,000	4.0	0	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational exposures, and certain firefighting activities	Some people who drink water containing PFOA in excess of the MCL over many years may have increased health risks such as cardiovascular, immune, and liver effects, as well as increased incidence of certain types of cancers including kidney and testicular cancer. In addition, there may be increased risks of developmental and immune effects for people who drink water containing PFOA in excess of the MCL following repeated exposure during pregnancy and/or childhood.		
PFOS (ng/l)	0.0000040	1,000,000	4.0	0	Discharge from manufacturing and industrial chemical facilities, use of certain consumer products, occupational	Some people who drink water containing PFOS in excess of the MCL over many years may have increased health risks such as cardiovascular, immune, and liver effects, as well as increased incidence of certain types of cancers including liver cancer. In addition, there may be		

SUMMARY OF FEDERAL REQUIREMENT						FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
					exposures, and certain firefighting activities	increased risks of developmental and immune effects for people who drink water containing PFOS in excess of the MCL following repeated exposure during pregnancy and/or childhood.		
Subpart Q—Public Notification of Drinking Water Violations								
Appendices to Subpart Q of Part 141^j								
Appendix A to Subpart Q of Part 141—NPDWR Violations and Other Situations Requiring Public Notice¹						Appendix A to Subpart Q of Part 141		
Contaminant	MCL/MRDL/TT violations ²		Monitoring & testing procedure violations					
	Tier of public notice required	Citation	Tier of public notice required	Citation				

D. Synthetic Organic Chemicals (SOCs)								

31. Hazard Index PFAS	2 ^{23,*}	141.61(c)	3	141.905(c)				
32. HFPO-DA	2*	141.61(c)	3	141.905(c)				
33. PFHxS	2*	141.61(c)	3	141.905(c)				
34. PFNA	2*	141.61(c)	3	141.905(c)				
35. PFOA	2*	141.61(c)	3	141.905(c)				
36. PFOS	2*	141.61(c)	3	141.905(c)				

Appendix A—Endnotes ^k								
*Beginning April 26, 2029.								

^j Note: Only rows added for PFAS contaminants are shown.

^k Note: Endnotes 1 and 2 were not changed, but were reprinted in the Federal Register Notice.

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
<p>1. Violations and other situations not listed in this table (e.g., failure to prepare Consumer Confidence Reports), do not require notice, unless otherwise determined by the primacy agency. Primacy agencies may, at their option, also require a more stringent public notice tier (e.g., Tier 1 instead of Tier 2 or Tier 2 instead of Tier 3) for specific violations and situations listed in this Appendix, as authorized under § 141.202(a) and § 141.203(a).</p> <p>2. MCL—Maximum contaminant level, MRDL—Maximum residual disinfectant level, TT—Treatment technique. * * * * *</p> <p>23. Systems that violate the Hazard Index MCL and one or more individual MCLs based on the same contaminants may issue one notification to satisfy the public notification requirements for multiple violations pursuant to § 141.203.</p>			

Appendix B to Subpart Q of Part 141—Standard Health Effects Language for Public Notification

Contaminant	MCLG ¹ mg/L	MCL ² mg/L	Standard health effects language for public notification
* * * * *			
E. Synthetic Organic Chemicals (SOCs)			
* * * * *			
55. Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	1 (unitless)	1 (unitless)	Per- and polyfluoroalkyl substances (PFAS) can persist in the human body and exposure may lead to increased risk of adverse health effects. Low levels of multiple PFAS that individually would not likely result in increased risk of adverse health effects may result in adverse health effects when combined in a mixture. Some people who consume drinking water containing mixtures of PFAS in excess of the Hazard Index (HI) MCL may have increased health risks such as liver, immune, and thyroid effects following exposure over many years and developmental and thyroid effects following repeated exposure during pregnancy and/or childhood.
56. HFPO-DA	0.00001	0.00001	Some people who drink water containing HFPO-DA in excess of the MCL over many years may have increased health risks such as immune, liver, and kidney effects. There is also a potential concern for cancer associated with HFPO-DA exposure. In addition, there may be increased risks of developmental effects for people who drink water containing HFPO-DA in excess of the MCL following repeated exposure during pregnancy and/or childhood.
57. PFHxS	0.00001	0.00001	Some people who drink water containing PFHxS in excess of the MCL over many years may have increased health risks such as immune, thyroid, and liver effects. In addition, there may be increased risks of developmental effects for people who drink water containing PFHxS in excess of the MCL following repeated exposure during pregnancy and/or childhood.
58. PFNA	0.00001	0.00001	Some people who drink water containing PFNA in excess of the MCL over many years may have

SUMMARY OF FEDERAL REQUIREMENT				FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
			increased health risks such as elevated cholesterol levels, immune effects, and liver effects. In addition, there may be increased risks of developmental effects for people who drink water containing PFNA in excess of the MCL following repeated exposure during pregnancy and/or childhood.			
59. PFOA	Zero	0.0000040	Some people who drink water containing PFOA in excess of the MCL over many years may have increased health risks such as cardiovascular, immune, and liver effects, as well as increased incidence of certain types of cancers including kidney and testicular cancer. In addition, there may be increased risks of developmental and immune effects for people who drink water containing PFOA in excess of the MCL following repeated exposure during pregnancy and/or childhood.			
60. PFOS	Zero	0.0000040	Some people who drink water containing PFOS in excess of the MCL over many years may have increased health risks such as cardiovascular, immune, and liver effects, as well as increased incidence of certain types of cancers including liver cancer. In addition, there may be increased risks of developmental and immune effects for people who drink water containing PFOS in excess of the MCL following repeated exposure during pregnancy and/or childhood.			

1. MCLG–Maximum contaminant level goal. 2. MCL–Maximum contaminant level.						

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
Appendix C to Subpart Q of Part 141—List of Acronyms Used in Public Notification Regulation * * * * * HI Hazard Index * * * * * PFAS Per- and Polyfluoroalkyl Substances * * * * *			
Subpart Z—Control of Per- and Polyfluoroalkyl Substances (PFAS)			
40 CFR 141.900 General requirements.			
The requirements of this subpart constitute the national primary drinking water regulations for PFAS. Each community water system (CWS) and non-transient, non-community water system (NTNCWS) must meet the requirements of this subpart including the maximum contaminant levels for the PFAS identified in § 141.61(c).	40 CFR 141.900(a)		
The deadlines for complying with the provisions of this subpart are as follows:	40 CFR 141.900(b)		
Each system must meet the analytical requirements in § 141.901 by June 25, 2024.	40 CFR 141.900(b)(1)		
Each system must report the results of initial monitoring, as described in § 141.902(b)(1), to the State by April 26, 2027.	40 CFR 141.900(b)(2)		
Each system must meet the compliance monitoring requirements in § 141.902(b)(2) by April 26, 2027.	40 CFR 141.900(b)(3)		
Each system must meet the MCL compliance requirements in § 141.903 by April 26, 2029.	40 CFR 141.900(b)(4)		
Each system must meet the reporting and recordkeeping requirements in § 141.904 by April 26, 2027.	40 CFR 141.900(b)(5)		
Violations described in § 141.905 include monitoring and reporting violations and violations of MCLs. Monitoring and reporting violations may be assessed beginning on April 26, 2027. MCL violations may be assessed beginning on April 26, 2029.	40 CFR 141.900(b)(6)		

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
40 CFR 141.901 Analytical requirements.			
<i>General.</i>	40 CFR 141.901(a)		
Systems must use only the analytical methods specified in this section to demonstrate compliance with the requirements of this subpart.	40 CFR 141.901(a)(1)		
The following documents are incorporated by reference with the approval of the Director of the <i>Federal Register</i> in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. This material is available for inspection at the EPA and at the National Archives and Records Administration (NARA). Contact the EPA’s Drinking Water Docket at 1301 Constitution Avenue, NW., EPA West, Room 3334, Washington, DC 20460; phone: 202-566-2426. For information on the availability of this material at NARA, email: fr.inspection@nara.gov , or go to: www.archives.gov/federal-register/cfr/ibr-locations . The material may be obtained from the EPA at 1301 Constitution Avenue, NW., the EPA West, Room 3334, Washington, DC 20460; phone 202-566-2426; or go to: https://www.epa.gov/pfas/epa-pfas-drinking-water-laboratorymethods .	40 CFR 141.901(a)(2)		
EPA Method 533: Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry, 815-B-19-020, November 2019.	40 CFR 141.901(a)(2)(i)		
Method 537.1, Version 2.0: Determination of Selected Per- and Polyfluorinated Alkyl Substances in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), EPA/600/R-20/006, March 2020.	40 CFR 141.901(a)(2)(ii)		
<i>PFAS–</i>	40 CFR 141.901(b)		
<i>Analytical methods.</i> Systems must measure regulated PFAS by the methods listed in the following table:	40 CFR 141.901(b)(1)		

SUMMARY OF FEDERAL REQUIREMENT			FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
Table 1 to Paragraph (b)(1)—Analytical Methods for PFAS Contaminants			40 CFR 141.901(b)(1)		
Contaminant	Methodology	EPA Method (incorporated by reference, see paragraph (a) of this section)			
Perfluorobutane Sulfonate (PFBS)	SPE LC-MS/MS	533, 537.1 version 2.0			
Perfluorohexane Sulfonate (PFHxS)	SPE LC-MS/MS	533, 537.1 version 2.0			
Perfluorononanoate (PFNA)	SPE LC-MS/MS	533, 537.1 version 2.0			
Perfluorooctanesulfonic Acid (PFOS)	SPE LC-MS/MS	533, 537.1 version 2.0			
Perfluorooctanoic Acid (PFOA)	SPE LC-MS/MS	533, 537.1 version 2.0			
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)	SPE LC-MS/MS	533, 537.1 version 2.0			
<i>Laboratory certification.</i> Analyses under this section for regulated PFAS must only be conducted by laboratories that have been certified by EPA or the State. To receive certification to conduct analyses for the regulated PFAS, the laboratory must:			40 CFR 141.901(b)(2)		
Analyze Performance Evaluation (PE) samples that are acceptable to the State at least once during each consecutive 12-month period by each method for which the laboratory desires certification.			40 CFR 141.901(b)(2)(i)		

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)														
<p>Beginning June 25, 2024, achieve quantitative results on the PE sample analyses that are within the following acceptance limits:</p> <p>Table 2 to Paragraph (b)(2)(ii)—Acceptance Limits for PFAS Performance Evaluation Samples</p> <table border="1" data-bbox="117 500 1226 857"> <thead> <tr> <th>Contaminant</th> <th>Acceptance Limits (percent of true value)</th> </tr> </thead> <tbody> <tr> <td>Perfluorobutane Sulfonate (PFBS)</td> <td>70-130</td> </tr> <tr> <td>Perfluorohexane Sulfonate (PFHxS)</td> <td>70-130</td> </tr> <tr> <td>Perfluorononanoate (PFNA)</td> <td>70-130</td> </tr> <tr> <td>Perfluorooctanesulfonic Acid (PFOS)</td> <td>70-130</td> </tr> <tr> <td>Perfluorooctanoic Acid (PFOA)</td> <td>70-130</td> </tr> <tr> <td>2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)</td> <td>70-130</td> </tr> </tbody> </table>	Contaminant	Acceptance Limits (percent of true value)	Perfluorobutane Sulfonate (PFBS)	70-130	Perfluorohexane Sulfonate (PFHxS)	70-130	Perfluorononanoate (PFNA)	70-130	Perfluorooctanesulfonic Acid (PFOS)	70-130	Perfluorooctanoic Acid (PFOA)	70-130	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)	70-130	40 CFR 141.901(b)(2)(ii)		
Contaminant	Acceptance Limits (percent of true value)																
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Perfluorononanoate (PFNA)	70-130																
Perfluorooctanesulfonic Acid (PFOS)	70-130																
Perfluorooctanoic Acid (PFOA)	70-130																
2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propanoate (HFPO-DA or GenX Chemicals)	70-130																
For all samples analyzed for regulated PFAS in compliance with § 141.902, beginning June 25, 2024, report data for concentrations as low as the trigger levels as defined in § 141.902(a)(5).	40 CFR 141.901(b)(2)(iii)																
40 CFR 141.902 Monitoring requirements.																	
<i>General requirements.</i>	40 CFR 141.902(a)																
Systems must take all samples during normal operating conditions at all entry points to the distribution system.	40 CFR 141.902(a)(1)																
If the system draws water from more than one source and the sources are combined before distribution, the system must sample at an entry point to the distribution system during periods of representative operating conditions.	40 CFR 141.902(a)(2)																
Systems must use only data collected under the provisions of this subpart to qualify for reduced monitoring.	40 CFR 141.902(a)(3)																

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)														
All new systems that begin operation after, or systems that use a new source of water after April 26, 2027, must demonstrate compliance with the MCLs within a period of time specified by the State. A system must also comply with initial sampling frequencies required by the State to ensure that the system can demonstrate compliance with the MCLs. Compliance monitoring frequencies must be conducted in accordance with the requirements in this section.	40 CFR 141.902(a)(4)																
<p>For purposes of this section, the trigger levels are defined as shown in the following table.</p> <p>Table 1 to Paragraph (a)(5)—Trigger Levels for PFAS Contaminants</p> <table border="1" data-bbox="113 651 947 976"> <thead> <tr> <th>Contaminant</th> <th>Trigger level</th> </tr> </thead> <tbody> <tr> <td>Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, PFNA)</td> <td>0.5 (unitless).</td> </tr> <tr> <td>HFPO-DA</td> <td>5 nanograms per liter (ng/l).</td> </tr> <tr> <td>PFHxS</td> <td>5 ng/l.</td> </tr> <tr> <td>PFNA</td> <td>5 ng/l.</td> </tr> <tr> <td>PFOA</td> <td>2.0 ng/l.</td> </tr> <tr> <td>PFOS</td> <td>2.0 ng/l.</td> </tr> </tbody> </table>	Contaminant	Trigger level	Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, PFNA)	0.5 (unitless).	HFPO-DA	5 nanograms per liter (ng/l).	PFHxS	5 ng/l.	PFNA	5 ng/l.	PFOA	2.0 ng/l.	PFOS	2.0 ng/l.	40 CFR 141.902(a)(5)		
Contaminant	Trigger level																
Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, PFNA)	0.5 (unitless).																
HFPO-DA	5 nanograms per liter (ng/l).																
PFHxS	5 ng/l.																
PFNA	5 ng/l.																
PFOA	2.0 ng/l.																
PFOS	2.0 ng/l.																
Based on initial monitoring results, for each sampling point at which a regulated PFAS listed in § 141.61(c) is detected at a level greater than or equal to the trigger level, the system must monitor quarterly for all regulated PFAS beginning April 26, 2027, in accordance with paragraph (b)(2) of this section.	40 CFR 141.902(a)(6)																
For purposes of this section, each water system must ensure that all results provided by a laboratory are reported to the State and used for determining the required sampling frequencies. This includes values below the practical quantitation levels defined in § 141.903(f)(1)(iv); zero must not be used in place of reported values.	40 CFR 141.902(a)(7)																
<i>Monitoring requirements for PFAS.</i>	40 CFR 141.902(b)																
<i>Initial monitoring.</i>	40 CFR 141.902(b)(1)																

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
Groundwater CWS and NTNCWS serving greater than 10,000 persons and all surface water CWS and NTNCWS must take four consecutive samples 2 to 4 months apart within a 12-month period (quarterly samples) for each regulated PFAS listed in § 141.61(c).	40 CFR 141.902(b)(1)(i)		
All groundwater CWS and NTNCWS serving 10,000 or fewer persons must take two samples for each regulated PFAS listed in § 141.61(c) five to seven months apart within a 12-month period.	40 CFR 141.902(b)(1)(ii)		
All groundwater under the direct influence of surface water (GWUDI) CWS and NTNCWS must follow the surface water CWS and NTNCWS monitoring schedule in paragraph (b)(1)(i) of this section.	40 CFR 141.902(b)(1)(iii)		
All systems that use both surface water and groundwater must apply the requirements in paragraphs (b)(1)(i) through (iii) of this section depending on the source(s) of water provided at a given entry point to the distribution system (EPTDS). If the EPTDS provides surface water, the requirements for a surface water CWS/NTNCWS apply. If the EPTDS provides groundwater, the requirements for a groundwater CWS/NTNCWS apply, based on system size. If an EPTDS provides a blend of surface water and groundwater, the requirements for a surface water system apply. For systems that change the source water type at an EPTDS during the initial monitoring period (i.e., one part of the year it is surface water and the remaining part of the year it is groundwater), the sampling requirements for a surface water system apply.	40 CFR 141.902(b)(1)(iv)		

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)									
<p>Systems must monitor at a frequency indicated in the following table, though a State may require more frequent monitoring on a system-specific basis:</p> <p>Table 2 to Paragraph (b)(1)(v)—Initial Monitoring Requirements</p> <table border="1" data-bbox="115 501 1241 941"> <thead> <tr> <th data-bbox="115 501 428 542">Type of System</th> <th data-bbox="432 501 940 542">Minimum Monitoring Frequency</th> <th data-bbox="945 501 1241 542">Sample Location</th> </tr> </thead> <tbody> <tr> <td data-bbox="115 545 428 760">Groundwater CWS and NTNCWS serving greater than 10,000 persons, all surface water CWS and NTNCWS, and all GWUDI systems</td> <td data-bbox="432 545 940 760">Four consecutive quarters of samples per entry point to the distribution system (EPTDS) within a 12-month period, unless the exception in paragraph (b)(1)(viii) of this section applies. Samples must be taken two to four months apart.</td> <td data-bbox="945 545 1241 760">Sampling point for EPTDS.</td> </tr> <tr> <td data-bbox="115 763 428 941">Groundwater CWS and NTNCWS serving 10,000 or fewer persons</td> <td data-bbox="432 763 940 941">Two consecutive samples per EPTDS within a 12-month period, unless the exception in paragraph (b)(1)(viii) of this section applies. Samples must be taken five to seven months apart.</td> <td data-bbox="945 763 1241 941">Sampling point for EPTDS.</td> </tr> </tbody> </table>	Type of System	Minimum Monitoring Frequency	Sample Location	Groundwater CWS and NTNCWS serving greater than 10,000 persons, all surface water CWS and NTNCWS, and all GWUDI systems	Four consecutive quarters of samples per entry point to the distribution system (EPTDS) within a 12-month period, unless the exception in paragraph (b)(1)(viii) of this section applies. Samples must be taken two to four months apart.	Sampling point for EPTDS.	Groundwater CWS and NTNCWS serving 10,000 or fewer persons	Two consecutive samples per EPTDS within a 12-month period, unless the exception in paragraph (b)(1)(viii) of this section applies. Samples must be taken five to seven months apart.	Sampling point for EPTDS.	40 CFR 141.902(b)(1)(v)		
Type of System	Minimum Monitoring Frequency	Sample Location										
Groundwater CWS and NTNCWS serving greater than 10,000 persons, all surface water CWS and NTNCWS, and all GWUDI systems	Four consecutive quarters of samples per entry point to the distribution system (EPTDS) within a 12-month period, unless the exception in paragraph (b)(1)(viii) of this section applies. Samples must be taken two to four months apart.	Sampling point for EPTDS.										
Groundwater CWS and NTNCWS serving 10,000 or fewer persons	Two consecutive samples per EPTDS within a 12-month period, unless the exception in paragraph (b)(1)(viii) of this section applies. Samples must be taken five to seven months apart.	Sampling point for EPTDS.										
<p>A State may accept data that has been previously acquired by a water system to count toward the initial monitoring requirements if the data meet the requirements of § 141.901(b)(1), samples were collected starting on or after January 1, 2019, and otherwise meet the timing requirements specified in table 2 to paragraph (b)(1)(v) of this section. For the purposes of satisfying initial monitoring requirements, acceptable data may be reported to a concentration no greater than the MCLs. However, a system is only eligible for triennial monitoring at the start of the compliance monitoring period if the system demonstrates that concentrations in all samples it uses to satisfy the initial monitoring requirements are below the trigger levels as defined in paragraph (a)(5) of this section.</p>	40 CFR 141.902(b)(1)(vi)											
<p>If systems have multiple years of data, the most recent data must be used.</p>	40 CFR 141.902(b)(1)(vii)											

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
For systems using previously acquired data that have fewer than the number of samples required in a continuous 12-month period for initial monitoring as listed in table 2 to paragraph (b)(1)(v) of this section: All surface water systems, GWUDI systems, and groundwater systems serving greater than 10,000 persons must collect in a calendar year one sample in each quarter that was not represented, two to four months apart from the months with available data; All groundwater systems serving 10,000 or fewer persons must collect one sample in the month that is five to seven months apart from the month in which the previous sample was taken.	40 CFR 141.902(b)(1)(viii)		
In determining the most recent data to report, a system must include all results provided by a laboratory whether above or below the practical quantitation levels. These results must be used for the purposes of determining the frequency with which a system must monitor at that sampling point at the start of the compliance monitoring period.	40 CFR 141.902(b)(1)(ix)		
States may delete results of obvious sampling errors. If the State deletes a result because of an obvious sampling error and the system fails to collect another sample this is a monitoring violation as described in § 141.905(c).	40 CFR 141.902(b)(1)(x)		
Initial monitoring requirements, including reporting results to the State, must be completed by April 26, 2027.	40 CFR 141.902(b)(1)(xi)		
<i>Compliance monitoring.</i>	40 CFR 141.902(b)(2)		
Based on initial monitoring results, at the start of the monitoring period that begins on April 26, 2027, systems may reduce monitoring at each sampling point at which all reported sample concentrations were below all trigger levels defined in paragraph (a)(5) of this section, unless otherwise provided for by the State. At eligible sampling points, each water system must analyze one sample for all regulated PFAS during each three-year monitoring period, at a time specified by the State, in the quarter in which the highest analytical result was detected during the most recent round of quarterly or semi-annual monitoring. If a sampling point is not eligible for triennial monitoring, then the water system must monitor quarterly at the start of the compliance monitoring period.	40 CFR 141.902(b)(2)(i)		

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<p>If, during the compliance monitoring period, a system is monitoring triennially and a PFAS listed in § 141.61(c) is detected at a level equal to or exceeding the trigger levels defined in paragraph (a)(5) of this section in any sample, then the system must monitor quarterly for all regulated PFAS beginning in the next quarter at the sampling point. The triggering sample must be used as the first quarter of monitoring for the running annual average calculation.</p>	<p>40 CFR 141.902(b)(2)(ii)</p>								
<p>For all source water types, a State may determine that all regulated PFAS at a sampling point are reliably and consistently below the MCL after considering, at a minimum, four consecutive quarterly samples collected during the compliance monitoring period. A sampling point that a State has determined to be reliably and consistently below the MCL is required to collect annual samples for at least the first three years after that determination is made. Annual samples must be collected in the quarter in which detected concentrations were highest during the most recent year of quarterly monitoring. If, after three consecutive years, annual samples all contain results that are below the trigger levels defined in paragraph (a)(5) of this section, the State may allow a system to begin triennial monitoring at the sampling point. The water system must collect triennial samples in the quarter with the highest concentrations during the most recent round of quarterly sampling. If an annual sample meets or exceeds an MCL or the State determines that the result is not reliably and consistently below the MCL for all regulated PFAS, then the system must monitor quarterly for all regulated PFAS beginning in the next quarter at the sampling point.</p>	<p>40 CFR 141.902(b)(2)(iii)</p>								
<p>The three different compliance monitoring sampling schedules that may be assigned and the criteria for each are summarized in the following table:</p> <p>Table 3 to Paragraph (b)(2)(iv)—Compliance Monitoring Schedules and Requirements</p> <table border="1" data-bbox="113 1159 1241 1450"> <thead> <tr> <th data-bbox="113 1159 260 1235">Sampling frequency</th> <th data-bbox="264 1159 869 1235">Eligibility requirements¹</th> <th data-bbox="873 1159 1241 1235">Sample timing requirements</th> </tr> </thead> <tbody> <tr> <td data-bbox="113 1239 260 1450">Triennial</td> <td data-bbox="264 1239 869 1450">At an individual sampling point, either: (1) All initial monitoring results demonstrate concentrations of all regulated PFAS below trigger levels; (2) The most recent three consecutive annual monitoring results all demonstrated concentrations of all regulated</td> <td data-bbox="873 1239 1241 1450">Sample must be collected at a time within the three-year period designated by the State, in the quarter that yielded the highest analytical result during the most recent</td> </tr> </tbody> </table>	Sampling frequency	Eligibility requirements ¹	Sample timing requirements	Triennial	At an individual sampling point, either: (1) All initial monitoring results demonstrate concentrations of all regulated PFAS below trigger levels; (2) The most recent three consecutive annual monitoring results all demonstrated concentrations of all regulated	Sample must be collected at a time within the three-year period designated by the State, in the quarter that yielded the highest analytical result during the most recent	<p>40 CFR 141.902(b)(2)(iv)</p>		
Sampling frequency	Eligibility requirements ¹	Sample timing requirements							
Triennial	At an individual sampling point, either: (1) All initial monitoring results demonstrate concentrations of all regulated PFAS below trigger levels; (2) The most recent three consecutive annual monitoring results all demonstrated concentrations of all regulated	Sample must be collected at a time within the three-year period designated by the State, in the quarter that yielded the highest analytical result during the most recent							

SUMMARY OF FEDERAL REQUIREMENT			FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
	<p>PFAS below trigger levels; or (3) The previous triennial sample demonstrated all regulated PFAS concentrations below trigger levels.</p> <p>Note: After beginning compliance monitoring, a system may not transition directly from quarterly monitoring to triennial monitoring.</p>	<p>round of quarterly sampling (or the most recent semi-annual sampling, if no quarterly sampling has occurred).</p>			
Annual	<p>A State makes a determination that all regulated PFAS concentrations at the sampling point are reliably and consistently below PFAS MCLs, after considering, at a minimum, 4 consecutive quarterly samples collected during the compliance monitoring period.</p>	<p>Sample must be collected at a time designated by the State, within the quarter that yielded the highest analytical result during the most recent round of quarterly sampling.</p>			
Quarterly	<p>At an individual sampling point, either:</p> <p>(1) Any regulated PFAS concentration meets or exceeds a trigger level during initial monitoring;</p> <p>(2) Sampling is occurring quarterly during compliance monitoring and a State has not made a determination that all levels of regulated PFAS at the sampling point are reliably and consistently below the regulated PFAS MCLs; or (3) A sample collected by a system required to conduct triennial monitoring contains regulated PFAS concentrations that meet or exceed trigger levels. The first of these samples meeting or exceeding the trigger level is considered the first quarterly sample. (4) A sample collected by a system required to conduct annual monitoring contains regulated PFAS concentrations that meet or exceed an MCL. The first of these samples meeting or exceeding the MCL is considered the first quarterly sample.</p>	<p>Samples must be collected in four consecutive quarters, on dates designated by the State.</p>			

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1. The monitoring frequency at a sampling point must be the same for all regulated PFAS and is determined based on the most frequent sampling required for any regulated PFAS detected at a level at or exceeding the trigger level.			
The State may require a confirmation sample for any sampling result. If a confirmation sample is required by the State, the system must average the result with the first sampling result and the average must be used for the determination of compliance with MCLs as specified by § 141.903. A State may delete results of obvious sampling errors from the MCL compliance calculations described in § 141.903. If the State deletes a result because of an obvious sampling error and the system fails to collect another sample this is a monitoring violation as described in § 141.905(c).	40 CFR 141.902(b)(2)(v)		
The State may increase the required monitoring frequency, where necessary, to detect variations within the system (e.g., fluctuations in concentration due to seasonal use, changes in water source).	40 CFR 141.902(b)(2)(vi)		
Each public water system must monitor at the time designated by the State within each monitoring period.	40 CFR 141.902(b)(2)(vii)		
When a system reduces its sampling frequency to annual or triennial sampling, the next compliance sample must be collected in the monitoring period that begins the calendar year following State approval of a reduction in monitoring frequency.	40 CFR 141.902(b)(2)(viii)		
40 CFR 141.903 Compliance requirements.			
Compliance with MCLs for regulated PFAS in § 141.61(c) must be determined based on the analytical results obtained at each sampling point.	40 CFR 141.903(a)		
For systems monitoring quarterly, compliance with the MCL is determined by the running annual average at each sampling point.	40 CFR 141.903(b)		
If a system fails to collect the required number of samples specified in § 141.902, this is a monitoring violation as described in § 141.905(c), and compliance calculations must be based on the total number of samples collected.	40 CFR 141.903(c)		

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)
Systems monitoring triennially whose sample result equals or exceeds the trigger level of 2.0 ng/l for either PFOS or PFOA, 5 ng/l for HFPO-DA, PFHxS, or PFNA, or a Hazard Index of 0.5 for the Hazard Index PFAS, must begin quarterly sampling for all regulated PFAS in the next quarter at the sampling point. Systems monitoring annually whose sample result equals or exceeds the MCL of 4.0 ng/l for either PFOS or PFOA, 10 ng/l for HFPO-DA, PFHxS, or PFNA, or a Hazard Index of 1 for the Hazard Index PFAS, must begin quarterly sampling for all regulated PFAS in the next quarter at the sampling point.	40 CFR 141.903(d)		
Except as provided in this paragraph (e), if a sample result exceeds an MCL, the system will not be considered in violation of the MCL until it has completed one year of quarterly sampling at the sampling point with the triggering sample used as the first quarter of monitoring for the running annual average calculation. However, whenever a sample result in any quarter (or quarterly average, if more than one compliance sample is available in a quarter because a confirmation sample was required by the State) causes the running annual average to exceed the MCL at a sampling point regardless of the subsequent quarterly monitoring results required to complete a full year of monitoring (e.g., the results from a single sample are more than 4 times the MCL), the system is out of compliance with the MCL immediately.	40 CFR 141.903(e)		
Systems must calculate compliance using the following method to determine MCL compliance at each sampling point:	40 CFR 141.903(f)		
For each PFAS regulated by an individual MCL:	40 CFR 141.903(f)(1)		
For systems monitoring quarterly, divide the sum of the measured quarterly concentrations for each analyte by the number of quarters samples were collected for that analyte during the consecutive quarters included in the calculation. If more than one compliance sample for that analyte is available in a quarter because a confirmation sample was required by the State, systems must average all the results in a quarter then average the quarterly averages. Rounding does not occur until the end of the calculation. If the running annual average exceeds the MCL, the system is not in compliance with the MCL requirements.	40 CFR 141.903(f)(1)(i)		

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For systems monitoring annually, if the concentration measured is equal to or exceeds an MCL for regulated PFAS, the system is required to initiate quarterly monitoring for all regulated PFAS beginning in the next quarter at the sampling point, with the triggering sample result used as the first quarter of monitoring for the running annual average calculation.	40 CFR 141.903(f)(1)(ii)																
For systems monitoring triennially, if the concentration measured is equal to or exceeds the trigger level, the system is required to initiate quarterly monitoring for all regulated PFAS beginning in the next quarter at the sampling point, with the triggering sample result used as the first quarter of monitoring for the running annual average calculation.	40 CFR 141.903(f)(1)(iii)																
<p>For the purpose of calculating MCL compliance, if a sample result is less than the practical quantitation level (PQL) for a regulated PFAS, in accordance with the following table, zero is used for that analyte solely to calculate the running annual average.</p> <p>Table 1 to Paragraph (f)(1)(iv)—Practical Quantitation Levels (PQLs) for PFAS Contaminants</p> <table border="1" data-bbox="113 841 945 1122"> <thead> <tr> <th>Contaminant</th> <th>PQL (in parts per trillion)</th> </tr> </thead> <tbody> <tr> <td>HFPO-DA</td> <td>5.0</td> </tr> <tr> <td>PFBS</td> <td>3.0</td> </tr> <tr> <td>PFHxS</td> <td>3.0</td> </tr> <tr> <td>PFNA</td> <td>4.0</td> </tr> <tr> <td>PFOA</td> <td>4.0</td> </tr> <tr> <td>PFOS</td> <td>4.0</td> </tr> </tbody> </table>	Contaminant	PQL (in parts per trillion)	HFPO-DA	5.0	PFBS	3.0	PFHxS	3.0	PFNA	4.0	PFOA	4.0	PFOS	4.0	40 CFR 141.903(f)(1)(iv)		
Contaminant	PQL (in parts per trillion)																
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PFOS	4.0																
For each PFAS regulated under the Hazard Index MCL:	40 CFR 141.903(f)(2)																

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<p>For systems monitoring quarterly, divide the observed sample analytical result for each analyte included in the Hazard Index by the corresponding HBWC listed in § 141.61(c) to obtain a hazard quotient for each analyte for each sampling event at each sampling point. Sum the resulting hazard quotients together to determine the Hazard Index for the quarter. If the State requires a confirmation sample for an analyte in the quarter, systems must average these results for each analyte in that quarter and then determine the hazard quotient(s) from those average values, then sum the hazard quotients. Once the Hazard Indices for the individual quarters are calculated, they are averaged to determine a running annual average. If the running annual average Hazard Index exceeds the MCL and two or more Hazard Index analytes had an observed sample analytical result at or above the PQL in any of the quarterly samples collected to determine the running annual average, the system is in violation of the Hazard Index MCL. No rounding occurs until after the running annual average Hazard Index is calculated.</p>	<p>40 CFR 141.903(f)(2)(i)</p>		
<p>If the Hazard Index calculated using the results of an annual sample equals or exceeds the Hazard Index MCL, the system must initiate quarterly sampling for all regulated PFAS beginning in the next quarter at the sampling point, with the triggering sample result used as the first quarter of monitoring.</p>	<p>40 CFR 141.903(f)(2)(ii)</p>		
<p>If the Hazard Index calculated using the results of a triennial sample equals or exceeds the Hazard Index trigger level, the system must initiate quarterly sampling for all regulated PFAS beginning in the next quarter at the sampling point, with the triggering sample result used as the first quarter of monitoring.</p>	<p>40 CFR 141.903(f)(2)(iii)</p>		
<p>If a sample result is less than the practical quantitation level for a regulated PFAS, in accordance with the table 1 to paragraph (f)(1)(iv) of this section, zero is used for that analyte solely to calculate the running annual average.</p>	<p>40 CFR 141.903(f)(2)(iv)</p>		
<p>40 CFR 141.904 Reporting and recordkeeping requirements.</p>			
<p>Systems required to sample must report to the State according to the timeframes and provisions of § 141.31 and retain records according to the provisions in § 141.33.</p>	<p>40 CFR 141.904</p>		

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	STATE CITATION (DOCUMENT TITLE, PAGE NUMBER SECTION/PARAGRAPH)	DIFFERENT FROM FEDERAL REQUIREMENT? (EXPLAIN ON SEPARATE SHEET)						
<p>Systems must report the information from initial monitoring specified in the following table:</p> <p>Table 1 to Paragraph (a)—Data To Report From Initial Monitoring</p> <table border="1" data-bbox="113 467 1241 868"> <thead> <tr> <th data-bbox="113 467 474 508">If you are a . . .</th> <th data-bbox="478 467 1241 508">You must report . . .</th> </tr> </thead> <tbody> <tr> <td data-bbox="113 511 474 690">System monitoring for regulated PFAS under the requirements of § 141.902(b)(1) on a quarterly basis</td> <td data-bbox="478 511 1241 690"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations reported. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. </td> </tr> <tr> <td data-bbox="113 693 474 868">System monitoring for regulated PFAS under the requirements of § 141.902(b)(1) less frequently than quarterly</td> <td data-bbox="478 693 1241 868"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations reported. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. </td> </tr> </tbody> </table>	If you are a . . .	You must report . . .	System monitoring for regulated PFAS under the requirements of § 141.902(b)(1) on a quarterly basis	1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations reported. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples.	System monitoring for regulated PFAS under the requirements of § 141.902(b)(1) less frequently than quarterly	1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations reported. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples.	40 CFR 141.904(a)		
If you are a . . .	You must report . . .								
System monitoring for regulated PFAS under the requirements of § 141.902(b)(1) on a quarterly basis	1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations reported. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples.								
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<p>Systems must report the information collected during the compliance monitoring period specified in the following table:</p> <p>Table 2 to Paragraph (b)—Data To Report From Compliance Monitoring</p> <table border="1" data-bbox="115 501 1241 1263"> <thead> <tr> <th data-bbox="115 501 476 542">If you are a . . .</th> <th data-bbox="480 501 1241 542">You must report . . .</th> </tr> </thead> <tbody> <tr> <td data-bbox="115 545 476 902">System monitoring for regulated PFAS under the requirements of § 141.902(b)(2) on a quarterly basis</td> <td data-bbox="480 545 1241 902"> <ol style="list-style-type: none"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations during the previous quarter. 2. The running annual average at each sampling point of all compliance samples. 3. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. 4. Whether an MCL for a regulated PFAS in § 141.61(c) was met or exceeded in any samples. 5. Whether, based on § 141.903, an MCL was violated. </td> </tr> <tr> <td data-bbox="115 906 476 1263">System monitoring for regulated PFAS under the requirements of § 141.902(b)(2) less frequently than quarterly</td> <td data-bbox="480 906 1241 1263"> <ol style="list-style-type: none"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations during the previous monitoring period. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. 3. Whether an MCL for a regulated PFAS in § 141.61(c) was met or exceeded in any samples. 4. Whether, based on § 141.903, an MCL was violated (e.g., the results from a single sample are more than 4 times the MCL). </td> </tr> </tbody> </table>	If you are a . . .	You must report . . .	System monitoring for regulated PFAS under the requirements of § 141.902(b)(2) on a quarterly basis	<ol style="list-style-type: none"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations during the previous quarter. 2. The running annual average at each sampling point of all compliance samples. 3. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. 4. Whether an MCL for a regulated PFAS in § 141.61(c) was met or exceeded in any samples. 5. Whether, based on § 141.903, an MCL was violated. 	System monitoring for regulated PFAS under the requirements of § 141.902(b)(2) less frequently than quarterly	<ol style="list-style-type: none"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations during the previous monitoring period. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. 3. Whether an MCL for a regulated PFAS in § 141.61(c) was met or exceeded in any samples. 4. Whether, based on § 141.903, an MCL was violated (e.g., the results from a single sample are more than 4 times the MCL). 	40 CFR 141.904(b)		
If you are a . . .	You must report . . .								
System monitoring for regulated PFAS under the requirements of § 141.902(b)(2) on a quarterly basis	<ol style="list-style-type: none"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations during the previous quarter. 2. The running annual average at each sampling point of all compliance samples. 3. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. 4. Whether an MCL for a regulated PFAS in § 141.61(c) was met or exceeded in any samples. 5. Whether, based on § 141.903, an MCL was violated. 								
System monitoring for regulated PFAS under the requirements of § 141.902(b)(2) less frequently than quarterly	<ol style="list-style-type: none"> 1. All sample results, including the locations, number of samples taken at each location, dates, and concentrations during the previous monitoring period. 2. Whether a trigger level, defined in § 141.902(a)(5), was met or exceeded in any samples. 3. Whether an MCL for a regulated PFAS in § 141.61(c) was met or exceeded in any samples. 4. Whether, based on § 141.903, an MCL was violated (e.g., the results from a single sample are more than 4 times the MCL). 								
40 CFR 141.905 Violations.									
PFAS MCL violations, both for the individual PFOA, PFOS, HFPO-DA, PFHxS, and PFNA MCLs, as well as the Hazard Index MCL, as listed in § 141.61(c), are based on a running annual average, as outlined under § 141.903.	40 CFR 141.905(a)								

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Compliance with § 141.61(c) must be determined based on the analytical results obtained at each sampling point. If one sampling point is in violation of an MCL, the system is in violation of the MCL.	40 CFR 141.905(b)		
Each failure to monitor in accordance with the requirements under § 141.902 is a monitoring violation.	40 CFR 141.905(c)		
Failure to notify the State following a MCL violation and failure to submit monitoring data in accordance with the requirements of §§ 141.904 and 141.31 are reporting violations.	40 CFR 141.905(d)		
Results for PFAS with individual MCLs as listed in § 141.61(c) are compared to their respective MCLs, and results for mixtures of two or more of the Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA) are compared to the Hazard Index MCL as listed in § 141.61(c). For determining compliance with the Hazard Index MCL, if only PFBS is reported at any concentration and no other regulated PFAS are in the mixture, it is not violation of the Hazard Index MCL. If only one of the other PFAS within the Hazard Index (HFPO-DA, PFHxS, and PFNA) is detected and the level of this PFAS exceeds its MCL as determined by § 141.903(f)(1)(i), only an individual MCL violation is assessed for the individual PFAS detected, and it is not a violation of the Hazard Index MCL. Exceedances of the Hazard Index caused by two or more of the Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA) and exceedances of one or more individual MCLs can result in multiple MCL exceedances. However, in this instance, for purposes of public notification under appendix A to subpart Q of this part, a PWS must only report the Hazard Index MCL exceedance.	40 CFR 141.905(e)		

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	EXPLANATION OF STATE POLICIES AND PROCEDURES
Part 142 – National Primary Drinking Water Regulations Implementation		
Subpart B—Primary Enforcement Responsibility		
40 CFR 142.16 Special primacy requirements.		
<i>Requirements for States to adopt 40 CFR part 141, subpart Z, PFAS.</i> In addition to the general primacy requirements elsewhere in this part, including the requirements that State regulations be at least as stringent as Federal requirements, an application for approval of a State program revision that adopts 40 CFR part 141, subpart Z, must contain the following, in lieu of meeting the requirements of paragraph (e) of this section:	40 CFR 142.16(r)	
The State’s procedures for reviewing the water system’s use of pre-existing data to meet the initial monitoring requirements specified in § 141.902, including the criteria that will be used to determine if the data are acceptable. This paragraph (r)(1) is no longer applicable after the initial monitoring period ends on April 26, 2027.	40 CFR 142.16(r)(1)	
The State’s procedures for ensuring all systems complete the initial monitoring period requirements that will result in a high degree of monitoring compliance by the regulatory deadlines. This paragraph (r)(2) is no longer applicable after the initial monitoring period ends on April 26, 2027.	40 CFR 142.16(r)(2)	
After the initial monitoring period, States establish the initial monitoring requirements for new public water systems and existing public water systems that plan to use a new source. States must explain their initial monitoring schedules and how these monitoring schedules ensure that new public water systems and existing public water systems that plan to use new sources comply with MCLs and monitoring requirements. States must also specify the time frame in which a new system or existing system that plans to use a new source must demonstrate compliance with the MCLs.	40 CFR 142.16(r)(3)	

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	EXPLANATION OF STATE POLICIES AND PROCEDURES															
Subpart G—Identification of Best Technology, Treatment Techniques or Other Means Generally Available																	
40 CFR 142.62 Variances and exemptions from the maximum contaminant levels for organic and inorganic chemicals.																	
<p>The Administrator, pursuant to section 1415(a)(1)(A) of the Act, hereby identifies the technologies listed in tables 1 and 2 to this paragraph (a) as the best available technology, treatment techniques, or other means available for achieving compliance with the maximum contaminant levels for the organic chemicals, including per- and polyfluoroalkyl substances (PFAS), listed in § 141.61 (a) and (c) of this chapter, for the purposes of issuing variances and exemptions. A list of small system compliance technologies for the regulated PFAS for the purposes of providing variances and exemptions is provided in table 3 to this paragraph (a); for the purpose of this paragraph (a), small system is defined as a system serving 10,000 persons or fewer.</p> <p>Table 1 to Paragraph (a)—BATs for PFAS Listed in § 141.61(c)</p> <table border="1" data-bbox="96 662 995 1166"> <thead> <tr> <th>Contaminant</th> <th>BAT</th> </tr> </thead> <tbody> <tr> <td>Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>HFPO-DA</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFHxS</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFNA</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFOA</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> <tr> <td>PFOS</td> <td>Anion exchange, GAC, reverse osmosis, nanofiltration.</td> </tr> </tbody> </table>	Contaminant	BAT	Hazard Index PFAS (HFPO-DA, PFBS, PFHxS, and PFNA)	Anion exchange, GAC, reverse osmosis, nanofiltration.	HFPO-DA	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFHxS	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFNA	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFOA	Anion exchange, GAC, reverse osmosis, nanofiltration.	PFOS	Anion exchange, GAC, reverse osmosis, nanofiltration.	40 CFR 142.62(a)		
Contaminant	BAT																
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<p>Table 2 to paragraph (a)—BATs for Other Synthetic Organic Contaminants Listed in § 141.61(c) and Volatile Organic Chemicals Listed in § 141.61(a)</p> <table border="1" data-bbox="96 1243 995 1408"> <thead> <tr> <th rowspan="2">Contaminant</th> <th colspan="3">Best available technologies</th> </tr> <tr> <th>PTA ¹</th> <th>GAC ²</th> <th>OX ³</th> </tr> </thead> <tbody> <tr> <td>(1) Benzene</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td>(2) Carbon tetrachloride</td> <td>X</td> <td>X</td> <td></td> </tr> </tbody> </table>	Contaminant	Best available technologies			PTA ¹	GAC ²	OX ³	(1) Benzene	X	X		(2) Carbon tetrachloride	X	X		40 CFR 142.62(a)(1)-(54) ¹	
Contaminant		Best available technologies															
	PTA ¹	GAC ²	OX ³														
(1) Benzene	X	X															
(2) Carbon tetrachloride	X	X															

¹ Note: The EPA only added a table number and title to this table.

SUMMARY OF FEDERAL REQUIREMENT				FEDERAL CITATION	EXPLANATION OF STATE POLICIES AND PROCEDURES
(3) 1,2-Dichloroethane	X	X			
(4) Trichloroethylene	X	X			
(5) para-Dichlorobenzene	X	X			
(6) 1,1-Dichloroethylene	X	X			
(7) 1,1,1-Trichloroethane	X	X			
(8) Vinyl chloride	X				
(9) cis-1,2-Dichloroethylene	X	X			
(10) 1,2-Dichloropropane	X	X			
(11) Ethylbenzene	X	X			
(12) Monochlorobenzene	X	X			
(13) o-Dichlorobenzene	X	X			
(14) Styrene	X	X			
(15) Tetrachloroethylene	X	X			
(16) Toluene	X	X			
(17) trans-1,2-Dichloroethylene	X	X			
(18) Xylense (total)	X	X			
(19) Alachlor			X		
(20) Aldicarb			X		
(21) Aldicarb sulfoxide			X		
(22) Aldicarb sulfone			X		
(23) Atrazine			X		
(24) Carbofuran			X		
(25) Chlordane			X		
(26) Dibromochloropropane	X	X			
(27) 2,4-D			X		
(28) Ethylene dibromide	X	X			
(29) Heptachlor			X		
(30) Heptachlor epoxide			X		
(31) Lindane			X		
(32) Methoxychlor			X		
(33) PCBs			X		

SUMMARY OF FEDERAL REQUIREMENT				FEDERAL CITATION	EXPLANATION OF STATE POLICIES AND PROCEDURES
(34) Pentachlorophenol		X			
(35) Toxaphene		X			
(36) 2,4,5-TP		X			
(37) Benzo[a]pyrene		X			
(38) Dalapon		X			
(39) Dichloromethane	X				
(40) Di(2-ethylhexyl)adipate	X	X			
(41) Di(2-ethylhexyl)phthalate		X			
(42) Dinoseb		X			
(43) Diquat		X			
(44) Endothall		X			
(45) Endrin		X			
(46) Glyphosate			X		
(47) Hexachlorobenzene		X			
(48) Hexachlorocyclopentadiene	X	X			
(49) Oxamyl (Vydate)		X			
(50) Picloram		X			
(51) Simazine		X			
(52) 1,2,4-Trichlorobenzene	X	X			
(53) 1,1,2-Trichloroethane	X	X			
(54) 2,3,7,8-TCDD (Dioxin)		X			
1. Packed Tower Aeration.					
2. Granular Activated Carbon.					
3. Oxidation (Chlorination or Ozonation).					

SUMMARY OF FEDERAL REQUIREMENT	FEDERAL CITATION	EXPLANATION OF STATE POLICIES AND PROCEDURES								
<p>Table 3 to Paragraph (a)—List of Small System Compliance Technologies (SSCTs)¹ for PFAS Listed in § 141.61(c)</p> <table border="1" data-bbox="102 289 995 488"> <thead> <tr> <th data-bbox="102 289 583 367">Small system compliance technologies</th> <th data-bbox="583 289 995 367">Affordable for listed small system categories²</th> </tr> </thead> <tbody> <tr> <td data-bbox="102 367 583 407">Anion Exchange</td> <td data-bbox="583 367 995 407">All size categories.</td> </tr> <tr> <td data-bbox="102 407 583 448">GAC</td> <td data-bbox="583 407 995 448">All size categories.</td> </tr> <tr> <td data-bbox="102 448 583 488">Reverse Osmosis,³ Nanofiltration³</td> <td data-bbox="583 448 995 488">3,301-10,000.</td> </tr> </tbody> </table> <p data-bbox="102 488 1276 732"> 1. Section 1412(b)(4)(E)(ii) of SDWA specifies that SSCTs must be affordable and technically feasible for small systems. 2. The Act (ibid.) specifies three categories of small systems: (i) those serving 25 or more, but fewer than 501, (ii) those serving more than 500, but fewer than 3,301, and (iii) those serving more than 3,300, but fewer than 10,001. 3. Technologies reject a large volume of water and may not be appropriate for areas where water quantity may be an issue. </p>	Small system compliance technologies	Affordable for listed small system categories ²	Anion Exchange	All size categories.	GAC	All size categories.	Reverse Osmosis, ³ Nanofiltration ³	3,301-10,000.	40 CFR 142.62(a)	
Small system compliance technologies	Affordable for listed small system categories ²									
Anion Exchange	All size categories.									
GAC	All size categories.									
Reverse Osmosis, ³ Nanofiltration ³	3,301-10,000.									