



Analytical Methods Approved for Compliance Monitoring under the Surface Water Treatment Coliform Rule

Analysis for the following contaminants shall be conducted in accordance with the methods in the following table, or their equivalent as determined by EPA. The methods and monitoring requirements for these contaminants are specified in 40 CFR 141.74(a)(1) and 40 CFR 141.74(a)(2). Additional methods are listed in Appendix A to Subpart C of Part 141.

The CFR is the legal reference for approved methods and takes precedent over this table. The table should accurately reflect the analytical methods information published in 40 CFR 141.

§141.74(a)(1)– Analytical and monitoring requirements

(a)(1) Analytical requirements

(1) The time from sample collection to initiation of analysis may not exceed 8 hours. Systems must hold samples below 10 °C during transit.

The procedures must be done in accordance with the documents listed at §141.74(a)(1) or one of the alternative methods listed in Appendix A to Subpart C of Part 141. For Standard Methods Online, the year in which each method was approved by the Standard Methods Committee is designated by the last two digits following the hyphen in the method number. The methods listed are the only online versions of the method that maybe used. For vendor methods, the date of the method listed in §141.74(a)(1) or Appendix A to Subpart C of Part 141 is the date/version of the approved method. The methods listed are the only versions that may be used for compliance with this rule. Laboratories should be careful to use only the approved versions of the methods as product packaging inserts may not be the same as the approved versions of the methods.

Contaminant

Total Coliforms - lactose fermentation methods:

| Method | Organization | Reference Title/Source | Date | Notes |
|--------------|------------------|--|------|---|
| 9221 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 18 th Edition Standard Methods | 1992 | Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent. Media should cover inverted tubes at least one-half to two-thirds after the sample is added. |

| Method | Organization | Reference Title/Source | Date | Notes |
|--------------|------------------|--|------|---|
| | | | | No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes. |
| 9221 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> Standard Methods | 1995 | Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent. Media should cover inverted tubes at least one-half to two-thirds after the sample is added. No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes. |
| 9221 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> Standard Methods | 1998 | Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent. Media should cover inverted tubes at least one-half to two-thirds after the sample is added. No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes. |
| 9221 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> Standard Methods | 2005 | Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent. Media should cover inverted tubes at least one-half to two-thirds after the sample is added. No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes. |
| 9221 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> Standard Methods | 2012 | Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------------|-------------------------|--|------|--|
| | | | | <p>rate for total coliforms, using lactose broth, is less than 10 percent.</p> <p>Media should cover inverted tubes at least one-half to two-thirds after the sample is added.</p> <p>No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes.</p> |
| 9221 A, B, C | Standard Methods | <p><i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> Standard Methods</p> | 2017 | <p>Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent.</p> <p>Media should cover inverted tubes at least one-half to two-thirds after the sample is added.</p> <p>No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes.</p> |
| 9221 A, B, C | Standard Methods | <p><i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> Standard Methods</p> | 2023 | <p>Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent.</p> <p>Media should cover inverted tubes at least one-half to two-thirds after the sample is added.</p> <p>No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes.</p> |
| 9221 A, B, C-99 | Standard Methods Online | <p>Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods</p> | 1999 | <p>Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent.</p> <p>Media should cover inverted tubes at least one-half to two-thirds after the sample is added.</p> <p>No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes.</p> |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------------|-------------------------|---|------|---|
| 9221 A, B, C-06 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 2006 | Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth, if the system conducts at least 25 parallel tests between lactose broth and lauryl tryptose broth using the water normally tested, and if the findings from this comparison demonstrate that the false-positive rate and the false-negative rate for total coliforms, using lactose broth, is less than 10 percent. Media should cover inverted tubes at least one-half to two-thirds after the sample is added. No requirement exists to run the completed phase on 10 percent of all total coliform-positive confirmed tubes. |

Total coliforms - membrane filtration methods:

| Method | Organization | Reference Title/Source | Date | Notes |
|--------------|------------------|--|------|-------|
| 9222 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 18 th Edition Standard Methods | 1992 | |
| 9222 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 19 th Edition Standard Methods | 1995 | |
| 9222 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 20 th Edition Standard Methods | 1998 | |
| 9222 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 21 st Edition Standard Methods | 2005 | |
| 9222 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 23 rd Edition Standard Methods | 2017 | |
| 9222 A, B, C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 24 th Edition Standard Methods | 2023 | |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------------|-------------------------|---|------|---|
| 9222 A, B, C-97 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 1997 | |
| 1604 | EPA | Method 1604: Total Coliforms and <i>Escherichia coli</i> in Water by Membrane Filtration Using a Simultaneous Detection Technique (MI Medium), September 2002 EPA Method 1604 | 2002 | Verification of colonies is not required. |

Total coliforms - enzyme substrate methods:

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------------|------------------|--|------|-------|
| 9223 Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 18 th Edition Standard Methods | 1992 | |
| 9223 Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 19 th Edition Standard Methods | 1995 | |
| 9223 Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 20 th Edition Standard Methods | 1998 | |
| 9223 Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 21 st Edition Standard Methods | 2005 | |
| 9223 B Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 22 nd Edition Standard Methods | 2012 | |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------------------|-------------------------|---|------|-------|
| 9223 B Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 23 rd Edition Standard Methods | 2017 | |
| 9223 B Colilert | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 24 th Edition Standard Methods | 2023 | |
| 9223 B-97 Colilert | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 1997 | |
| 9223 B-04 Colilert | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 2004 | |

Contaminant

Fecal coliforms – Fecal Coliform Procedure (following Lactose Fermentation Methods):

| Method | Organization | Reference Title/Source | Date | Notes |
|--------|------------------|--|------|--|
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 18 th Edition Standard Methods | 1992 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 19 th Edition Standard Methods | 1995 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------|-------------------------|---|------|--|
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 20 th Edition Standard Methods | 1998 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 21 st Edition Standard Methods | 2005 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 22 nd Edition Standard Methods | 2012 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 23 rd Edition Standard Methods | 2017 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 24 th Edition Standard Methods | 2023 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E-99 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 1999 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |
| 9221 E-06 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 2006 | A-1 broth may be held up to 7 days in a tightly closed screw cap tube at 4°C |

Contaminant

Fecal coliforms – membrane filtration methods:

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------|-------------------------|---|------|-------|
| 9222 D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> Standard Methods | 1992 | |
| 9222D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> Standard Methods | 1995 | |
| 9222 D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> Standard Methods | 1998 | |
| 9222D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> Standard Methods | 2005 | |
| 9222 D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> Standard Methods | 2012 | |
| 9222 D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> Standard Methods | 2017 | |
| 9222 D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> Standard Methods | 2023 | |
| 9222 D-97 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 1997 | |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------|-------------------------|---|------|-------|
| 9222 D-06 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 2006 | |

Contaminant

Heterotrophic bacteria – culture method:

| Method | Organization | Reference Title/Source | Date | Notes |
|--------|------------------|--|------|-------|
| 9215 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 18 th Edition Standard Methods | 1992 | |
| 9215 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 19 th Edition Standard Methods | 1995 | |
| 9215 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 20 th Edition Standard Methods | 1998 | |
| 9215 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 21 st Edition Standard Methods | 2005 | |
| 9215 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 22 nd Edition Standard Methods | 2012 | |
| 9215 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 23 rd Edition Standard Methods | 2017 | |

| Method | Organization | Reference Title/Source | Date | Notes |
|-----------|-------------------------|---|------|-------|
| 9215 B-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 2000 | |
| 9215 B-04 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. Standard Methods | 2004 | |

Contaminant

Heterotrophic bacteria - enzyme substrate methods:

| Method | Organization | Reference Title/Source | Date | Notes |
|----------|--------------|--|------|-------|
| Simplate | IDEXX | IDEXX SimPlate™ HPC test method for Heterotrophs in Water, November 2000. IDEXX Laboratories, One IDEXX Drive, Westbrook, ME 04092 | 2000 | |

Contaminant

Turbidity methods:

| Method | Organization | Reference Title/Source | Date | Notes |
|--------|------------------|--|------|--|
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 18 th Edition Standard Methods | 1992 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 19 th Edition Standard Methods | 1995 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |

| Method | Organization | Reference Title/Source | Date | Notes |
|----------|-------------------------|---|------|--|
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 20 th Edition Standard Methods | 1998 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 21 st Edition Standard Methods | 2005 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 22 nd Edition Standard Methods | 2012 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 23 rd Edition Standard Methods | 2017 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 2130 B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater</i> , 24 th Edition Standard Methods | 2023 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 180.1 | EPA | Methods for the Determination of Inorganic Substances in Environmental Samples, EPA/600/R-93/100, August 1993 National Environmental Methods Index | 1993 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| Method 2 | Great Lakes Instruments | Great Lakes Instruments Method 2, Turbidity, November 2, 1992 GLI Method 2 | 1992 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 10133 | Hach | Hach FilterTrak Method 10133, Revision 2.0, Determination of Turbidity by Laser Nephelometry, January 2000 Hach FilterTrak Method 10133 | 2000 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |

| Method | Organization | Reference Title/Source | Date | Notes |
|------------------|---------------------------------|--|------|--|
| M5271 | Leck Mitchell | Mitchell Method M5271, Revision 1.1, Determination of Turbidity by Laser Nephelometry, March 5, 2009 Mitchell M5271, Rev. 1.1 | 2009 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| M5331 | Leck Mitchell | Mitchell Method M5331, Revision 1.1, Determination of Turbidity by LED Nephelometry, March 5, 2009 Mitchell M5331, Rev. 1.1 | 2009 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| AMI Turbiwell | Swan Analytische Instrumente AG | Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter, August 2009 SWAN AMI Turbiwell | 2009 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| AQ4500 | Thermo Scientific | Orion Method AQ4500, Revision 1.0, Determination of Turbidity by LED Nephelometry, May 8, 2009 Orion AQ4500, Rev. 1.0 | 2009 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| M5331 (Rev. 1.2) | Leck Mitchell | Mitchell Method M5331, Revision 1.2 Determination of Turbidity by LED or Laser Nephelometry, February 2016 Mitchell M5331, Rev. 1.2 | 2016 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 10258 (Rev. 1.0) | Hach Company | Hach Method 10258, Rev. 1.0 Determination of Turbidity by 360° Nephelometry, January 2016 Hach 10258, Rev. 1.0 | 2016 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| 10258 (Rev. 2.0) | Hach Company | Hach Method 10258, Rev. 2.0 Determination of Turbidity by 360° Nephelometry, March 2018 Hach 10258, Rev. 2.0 | 2018 | Revised method allows the use of sealed vials prefilled with Hach StablCal™ for quarterly calibration |

| Method | Organization | Reference Title/Source | Date | Notes |
|----------------------|------------------|---|------|--|
| 8195 (Rev. 3.0) | Hach Company | Hach Method 8195, Rev. 3.0 Determination of Turbidity by Nephelometry, March 2018 Hach 8195, Rev. 3.0 | 2018 | Revised method allows the use of sealed vials prefilled with Hach StablCal™ for quarterly calibration |
| Lovibond PTV 1000 | Tintometer, Inc. | Continuous Measurement of Drinking Water Turbidity using a Lovibond PTV 1000 White Light LED Turbidimeter, December 2016 Lovibond PTV 1000, Rev. 1.0 | 2016 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| Lovibond PTV 2000 | Tintometer, Inc. | Continuous Measurement of Drinking Water Turbidity using a Lovibond PTV 2000 660-nm LED Turbidimeter, December 2016 Lovibond PTV 2000, Rev. 1.0 | 2016 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| Lovibond PTV 6000 | Tintometer, Inc. | Continuous Measurement of Drinking Water Turbidity using a Lovibond PTV 6000 Laser Turbidimeter, December 2016 Lovibond PTV 6000, Rev. 1.0 | 2016 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| Lovibond TB 3500 | Tintometer, Inc. | Measurement of Drinking Water Turbidity of a Captured Sample using a Lovibond White Light LED Portable Turbidimeter Lovibond TB 3500, Rev. 1.0 | 2021 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| Lovibond TB 5000 | Tintometer, Inc. | Measurement of Drinking Water Turbidity of a Captured Sample using a Lovibond 660-nm LED Portable Turbidimeter Lovibond TB 5000, Rev. 1.0 | 2021 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |
| Lovibond TB 6000 | Tintometer, Inc. | Measurement of Drinking Water Turbidity of a Captured Sample using a Lovibond Portable Laser Turbidimeter Lovibond TB 6000, Rev. 1.0 | 2021 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |

| Method | Organization | Reference Title/Source | Date | Notes |
|---------------------|-------------------------------|---|------|--|
| Yokogawa Method 820 | Yokogawa Electric Corporation | Yokogawa Method 820 - Measurement of Turbidity in Drinking Water by Right Angle Scattered Light Turbidity Analyzer Yokogawa Method 820 | 2022 | Styrene divinyl benzene beads (e.g., AMCO-AEPA-1 or equivalent) and stabilized formazin (e.g., Hach StablCal™ or equivalent) are acceptable substitutes for formazin |

§141.74(a)(2)– Public water systems must measure residual disinfectant concentrations with one of the analytical methods in the following table or one of the alternative methods listed in appendix A to subpart C of this part. If approved by the State, residual disinfectant concentrations for free chlorine and combined chlorine also may be measured by using DPD colorimetric test kits. In addition, States may approve the use of the ITS free chlorine test strip for the determination of free chlorine. Use of the test strips is described in Method D99-003, “Free Chlorine Species (HOCl⁻ and OCl⁻) by Test Strip,” Revision 3.0, November 21, 2003, available from Industrial Test Systems, Inc., 1875 Langston St., Rock Hill, SC 29730. Free and total chlorine residuals may be measured continuously by adapting a specified chlorine residual method for use with a continuous monitoring instrument provided the chemistry, accuracy, and precision remain the same.

Free Chlorine

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|----------------------|-------------------------------|---|----------------|------------------------|--------------------------------------|
| D99-003 | Industrial Test Systems, Inc. | <i>Free Chlorine Species (HOCl⁻ and OCl⁻) by Test Strip</i> | November 2003 | | Method D99-003 |
| D1253-03 | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i> | 2003 | | ASTM International |
| D1253-08 | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i> | 2008 | | ASTM International |
| D1253-14 | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i> | 2014 | | ASTM International |
| 334.0 | EPA | <i>Determination of Residual Chlorine in Drinking Water using an On-line Chlorine Analyzer</i> | September 2009 | EPA 815-B-09-013 | EPA 815-B-09-013 |
| Hach 10260, Rev. 1.0 | Hach Company | <i>Determination of Chlorinated Oxidants (Free and Total) in Water using Disposable Planar Reagent-Filled Cuvettes and Mesofluidic Channel Colorimetry</i> | April 2013 | | Hach 10260, Rev. 1.0 |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|-----------------------|------------------|--|---------------|------------------------|---------------------------------------|
| Hach 10241, Rev. 1.2 | Hach Company | <i>Spectrophotometric Measurement of Free Chlorine (Cl₂) in Finished Drinking Water</i> | November 2015 | | Hach 10241, Rev. 1.2 |
| ChloroSense | Palintest | <i>Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense</i> | August 2009 | | ChloroSense |
| ChloroSense, Rev. 1.1 | Palintest | <i>Free and Total Chlorine in Drinking Water by Amperometry using Disposable Sensors</i> | February 2020 | | ChloroSense, Rev. 1.1 |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-Cl F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-Cl F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-Cl F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |

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| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|--------------|-------------------------|---|------|------------------------|----------------------------------|
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI H | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI D-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |
| 4500-CI F-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |
| 4500-CI G-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |
| 4500-CI H-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |

Total Chlorine

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|-----------------------|--------------------|---|----------------|------------------------|---------------------------------------|
| D1253-03 | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i> | 2003 | | ASTM International |
| D1253-08 | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i> | 2008 | | ASTM International |
| D1253-14 | ASTM International | <i>Standard Test Method for Residual Chlorine in Water</i> | 2014 | | ASTM International |
| 334.0 | EPA | <i>Determination of Residual Chlorine in Drinking Water using an On-line Chlorine Analyzer</i> | September 2009 | EPA 815-B-09-013 | EPA 815-B-09-013 |
| Hach 10260, Rev. 1.0 | Hach Company | <i>Determination of Chlorinated Oxidants (Free and Total) in Water using Disposable Planar Reagent-Filled Cuvettes and Mesofluidic Channel Colorimetry</i> | April 2013 | | Hach 10260, Rev. 1.0 |
| ChloroSense | Palintest | <i>Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense</i> | August 2009 | | ChloroSense |
| ChloroSense, Rev. 1.1 | Palintest | <i>Free and Total Chlorine in Drinking Water by Amperometry using Disposable Sensors</i> | February 2020 | | ChloroSense, Rev. 1.1 |
| 127 | EPA | <i>Determination of Monochloramine Concentration in Drinking Water</i> | January 2021 | EPA 815-B-21-004 | EPA 815-B-21-004 |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-Cl D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|-----------|------------------|--|------|------------------------|----------------------------------|
| 4500-CI D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |

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| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI F | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI G | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|--------------|-------------------------|---|------|------------------------|----------------------------------|
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CI I | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CI D-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |
| 4500-CI E-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |
| 4500-CI F-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |
| 4500-CI G-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|--------------|-------------------------|---|------|------------------------|----------------------------------|
| 4500-Cl I-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |

Chlorine Dioxide

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|--------------------------|------------------|---|---------------|------------------------|--|
| 327, Rev. 1.1 | EPA | <i>Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrometry</i> | May 2005 | EPA-815-R-05-008 | EPA-815-R-05-008 |
| ChlordioX Plus | Palintest | <i>Palintest ChlordioX Plus Method – Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors</i> | November 2013 | | ChlordioX Plus |
| ChlordioX Plus, Rev. 1.1 | Palintest | <i>Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors</i> | February 2020 | | ChlordioX Plus, Rev. 1.1 |
| 4500-ClO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-ClO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-ClO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-ClO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-ClO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|----------------------------|-------------------------|---|------|------------------------|----------------------------------|
| 4500-CIO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CIO ₂ C | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CIO ₂ D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CIO ₂ D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-CIO ₂ D | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-CIO ₂ E | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-CIO ₂ C-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the | 2000 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|----------------------------|-------------------------|---|------|------------------------|----------------------------------|
| | | regulations or in Appendix A to Subpart C of Part 141 are approved. | | | |
| 4500-ClO ₂ E-00 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to Subpart C of Part 141 are approved. | 2000 | | Standard Methods |

Ozone

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|--------------------------|-------------------------|---|------|------------------------|----------------------------------|
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 18th Edition</i> | 1992 | | Standard Methods |
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 19th Edition</i> | 1995 | | Standard Methods |
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 20th Edition</i> | 1998 | | Standard Methods |
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 21st Edition</i> | 2005 | | Standard Methods |
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 22nd Edition</i> | 2012 | | Standard Methods |
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 23rd Edition</i> | 2017 | | Standard Methods |
| 4500-O ₃ B | Standard Methods | <i>Standard Methods for the Examination of Water and Wastewater, 24th Edition</i> | 2023 | | Standard Methods |
| 4500-O ₃ B-97 | Standard Methods Online | Online version. Approval year is designated by the last 2 digits. Only online versions cited in the regulations or in Appendix A to | 1997 | | Standard Methods |

| Method | Organization | Reference Title | Date | EPA Publication Number | Source of Method |
|--------|--------------|-------------------------------------|------|------------------------|------------------|
| | | Subpart C of Part 141 are approved. | | | |