
ILLINOIS REGISTER

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

TITLE 35: ENVIRONMENTAL PROTECTION
SUBTITLE F: PUBLIC WATER SUPPLIES
CHAPTER I: POLLUTION CONTROL BOARD

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AUTHORITY: Implementing Sections 7.2, 17, and 17.5 and authorized by Section 27 of the Environmental Protection Act [415 ILCS 5/7.2, 17, 17.5, and 27].

SOURCE: Adopted in R88-26 at 14 Ill. Reg. 16517, effective September 20, 1990; amended in R90-21 at 14 Ill. Reg. 20448, effective December 11, 1990; amended in R90-13 at 15 Ill. Reg. 1562, effective January 22, 1991; amended in R91-3 at 16 Ill. Reg. 19010, effective December 1, 1992; amended in R92-3 at 17 Ill. Reg. 7796, effective May 18, 1993; amended in R93-1 at 17 Ill. Reg. 12650, effective July 23, 1993; amended in R94-4 at 18 Ill. Reg. 12291, effective July 28, 1994; amended in R94-23 at 19 Ill. Reg. 8613, effective June 20, 1995; amended in R95-17 at 20 Ill. Reg. 14493, effective October 22, 1996; amended in R98-2 at 22 Ill. Reg. 5020, effective March 5, 1998; amended in R99-6 at 23 Ill. Reg. 2756, effective February 17, 1999; amended in R99-12 at 23 Ill. Reg. 10348, effective August 11, 1999; amended in R00-8 at 23 Ill. Reg. 14715, effective

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December 8, 1999; amended in R00-10 at 24 Ill. Reg. 14226, effective September 11, 2000; amended in R01-7 at 25 Ill. Reg. 1329, effective January 11, 2001; amended in R01-20 at 25 Ill. Reg. 13611, effective October 9, 2001; amended in R02-5 at 26 Ill. Reg. 3522, effective February 22, 2002; amended in R03-4 at 27 Ill. Reg. 1183, effective January 10, 2003; amended in R03-15 at 27 Ill. Reg. 16447, effective October 10, 2003; amended in R04-3 at 28 Ill. Reg. 5269, effective March 10, 2004; amended in R04-13 at 28 Ill. Reg. 12666, effective August 26, 2004; amended in R05-6 at 29 Ill. Reg. 2287, effective January 28, 2005; amended in R06-15 at 30 Ill. Reg. 17004, effective October 13, 2006; amended in R07-2/R07-11 at 31 Ill. Reg. 11757, effective July 27, 2007; amended in R08-7/R08-13 at 33 Ill. Reg. 633, effective December 30, 2008; amended in R10-1/R10-17/R11-6 at 34 Ill. Reg. 19848, effective December 7, 2010; amended in R12-4 at 36 Ill. Reg. 7110, effective April 25, 2012; amended in R13-2 at 37 Ill. Reg. 1978, effective February 4, 2013; amended in R14-8 at 38 Ill. Reg. 3608, effective January 27, 2014; amended in R14-9 at 38 Ill. Reg. 9792, effective April 21, 2014; amended in R15-6 at 39 Ill. Reg. 3713, effective February 24, 2015; amended in R15-23 at 39 Ill. Reg. 15144, effective November 9, 2015; amended in R16-4 at 39 Ill. Reg. 15352, effective November 13, 2015; amended in R17-12 at 42 Ill. Reg. 1140, effective January 4, 2018; amended R18-9 at 42 Ill. Reg. 9316, effective May 29, 2018; amended in R18-17 at 42 Ill. Reg. 8204, effective July 26, 2019; amended in R19-16 at 44 Ill. Reg. 6996, effective April 17, 2020; amended in R18-26 at 47 Ill. Reg. 7556, effective May 16, 2023; amended in R23-9 at ___ Ill. Reg. _____, effective _____.

SUBPART A: GENERAL

Section 611.102 Incorporations by Reference

- a) Analytical Methods. The Board incorporates by reference the following analytical methods. The methods appear in the body of the rules by the defined short-form name indicated in this Section.

“AMI Turbiwell (09)” means “Continuous Measurement of Turbidity Using a SWAN AMI Turbiwell Turbidimeter” (August 10, 2009). Available from SWAN Analytische Instrumente AG, Studbachstrasse 13, CH-8340, Hinwil, Switzerland. Referenced in Section 611.531. Available from the publisher; NEMI; and USEPA, OGWDW (under “Surface Water Treatment Rule (PDF)”).

ASTM Methods. Available from ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 (610-832-9585 or www.astm.org/Standard/standards-and-publications).

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“ASTM D511-93 A” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method A—Complexometric Titration”, approved 1993, referenced in Section 611.611.

Commented [SML1]: This should appear before "ASTM D511-93 B" to be in chronological/numerical order.

“ASTM D511-03 A” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method A—Complexometric Titration”, approved 2003, referenced in Section 611.611.

“ASTM D511-09 A” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method A—Complexometric Titration”, approved 2009, referenced in Section 611.611.

“ASTM D511-14 A” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method A—Complexometric Titration”, approved 2014, referenced in Section 611.611.

“ASTM D511-93 B” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method B—Atomic Absorption Spectrophotometric”, approved 1993, referenced in Section 611.611.

“ASTM D511-03 B” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method B—Atomic Absorption Spectrophotometric”, approved 2003, referenced in Section 611.611.

Commented [SML2]: This should appear after "ATSM D511-03 A" to be in chronological order.

“ASTM D511-09 B” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method B—Atomic Absorption Spectrophotometric”, approved 2009, referenced in Section 611.611.

Commented [SML3]: This should appear after "ATSM D511-09 A" to be in chronological order.

“ASTM D511-14 B” means “Standard Test Methods for Calcium and Magnesium in Water”, “Test Method B—Atomic Absorption Spectrophotometric”, approved 2014, referenced in Section 611.611.

Commented [SML4]: This should appear after "ATSM D511-14 A" to be in chronological order.

“ASTM D515-88 A” means “Standard Test Methods for Phosphorus in Water”, “Test Method A—Colorimetric Ascorbic Acid Reduction”, approved August 19, 1988, referenced in Section 611.611.

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"ASTM D859-94" means "Standard Test Method for Silica in Water", approved 1994, referenced in Section 611.611.

"ASTM D859-00" means "Standard Test Method for Silica in Water", approved 2000, referenced in Section 611.611.

"ASTM D859-05" means "Standard Test Method for Silica in Water", approved 2005, referenced in Section 611.611.

"ASTM D859-10" means "Standard Test Method for Silica in Water", approved 2010, referenced in Section 611.611.

"ASTM D859-16" means "Standard Test Method for Silica in Water", approved 2016, referenced in Section 611.611.

"ASTM D1067-92 B" means "Standard Test Methods for Acidity or Alkalinity in Water", "Test Method B—Electrometric or Color-Change Titration", approved May 15, 1992, referenced in Section 611.611.

"ASTM D1067-02 B" means "Standard Test Methods for Acidity or Alkalinity in Water", "Test Method B—Electrometric or Color-Change Titration", approved in 2002, referenced in Section 611.611.

"ASTM D1067-06 B" means "Standard Test Methods for Acidity or Alkalinity in Water", "Test Method B—Electrometric or Color-Change Titration", approved in 2006, referenced in Section 611.611.

"ASTM D1067-11 B" means "Standard Test Methods for Acidity or Alkalinity in Water", "Test Method B—Electrometric or Color-Change Titration", approved in 2011, referenced in Section 611.611.

"ASTM D1067-16 B" means "Standard Test Methods for Acidity or Alkalinity in Water", "Test Method B—Electrometric or Color-Change Titration", approved in 2006, referenced in Section 611.611.

"ASTM D1125-95(1999) A" means "Standard Test Methods for Electrical Conductivity and Resistivity of Water", "Test Method

Commented [SML5]: This should appear after "ASTM D 859-16" to appear in numerical order.

Commented [SML6]: This should appear after "ASTM D 1067-16 B" to be in numerical order.

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A—Field and Routine Laboratory Measurement of Static (Non-Flowing) Samples”, approved 1995, reapproved 1999, referenced in Section 611.611.

“ASTM D1179-93 B” means “Standard Test Methods for Fluoride in Water”, “Test Method B—Ion Selective Electrode”, approved 1993, referenced in Section 611.611.

Commented [SML7]: This needs to appear after “ASTM D1179-16 B” to appear in numerical order.

“ASTM D1179-99 B” means “Standard Test Methods for Fluoride in Water”, “Test Method B—Ion Selective Electrode”, approved 1999, referenced in Section 611.611.

Commented [SML8]: See comment above and place this after “ASTM D1179-93 B” once it is moved.

“ASTM D1179-04 B” means “Standard Test Methods for Fluoride in Water”, “Test Method B—Ion Selective Electrode”, approved 2004, referenced in Section 611.611.

“ASTM D1179-10 B” means “Standard Test Methods for Fluoride in Water”, “Test Method B—Ion Selective Electrode”, approved 2010, referenced in Section 611.611.

“ASTM D1179-16 B” means “Standard Test Methods for Fluoride in Water”, “Test Method B—Ion Selective Electrode”, approved 2010, referenced in Section 611.611.

“ASTM D1253-86” means “Standard Test Method for Residual Chlorine in Water”, reapproved 1992, referenced in Section 611.381.

“ASTM D1253-96” means “Standard Test Method for Residual Chlorine in Water”, approved 1996, referenced in Section 611.381.

Commented [SML9]: These needs to appear after “ASTM D1253-14” to be in numerical order.

“ASTM D1253-03” means “Standard Test Method for Residual Chlorine in Water”, approved 2003, referenced in Sections 611.381 and 611.531.

“ASTM D1253-08” means “Standard Test Method for Residual Chlorine in Water”, approved 2008, referenced in Sections 611.381 and 611.531.

“ASTM D1253-14” means “Standard Test Method for Residual Chlorine in Water”, approved 2014, referenced in Sections 611.381 and 611.531.

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“ASTM D1293-95” means “Standard Test Methods for pH of Water”, approved 1995, referenced in Section 611.611.

“ASTM D1293-99” means “Standard Test Methods for pH of Water”, approved 1999, referenced in Section 611.611.

“ASTM D1293-12” means “Standard Test Methods for pH of Water”, approved 2012, referenced in Section 611.611.

“ASTM D1688-95 A” means “Standard Test Methods for Copper in Water”, “Test Method A—Atomic Absorption, Direct”, approved 1995, referenced in Section 611.611.

“ASTM D1688-02 A” means “Standard Test Methods for Copper in Water”, “Test Method A—Atomic Absorption, Direct”, approved 2002, referenced in Section 611.611.

“ASTM D1688-07 A” means “Standard Test Methods for Copper in Water”, “Test Method A—Atomic Absorption, Direct”, approved 2007, referenced in Section 611.611.

“ASTM D1688-12 A” means “Standard Test Methods for Copper in Water”, “Test Method A—Atomic Absorption, Direct”, approved 2012, referenced in Section 611.611.

“ASTM D1688-95 C” means “Standard Test Methods for Copper in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 1995, referenced in Section 611.611.

“ASTM D1688-02 C” means “Standard Test Methods for Copper in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 2002, referenced in Section 611.611.

“ASTM D1688-07 C” means “Standard Test Methods for Copper in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 2007, referenced in Section 611.611.

“ASTM D1688-12 C” means “Standard Test Methods for Copper in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 2012, referenced in Section 611.611.

Commented [SML10]: This needs to appear before “ASTM D1293-95” to appear in numerical order.

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"ASTM D2036-98 A" means "Standard Test Methods for Cyanide in Water", "Test Method A—Total Cyanides after Distillation", approved 1998, referenced in Section 611.611.

Commented [SML15]: This needs to appear before "ASTM D2036-98 B" to appear in numerical order.

"ASTM D2036-06 A" means "Standard Test Methods for Cyanide in Water", "Test Method A—Total Cyanides after Distillation", approved 2006, referenced in Section 611.611.

"ASTM D2036-98 B" means "Standard Test Methods for Cyanide in Water", "Test Method B—Cyanides Amenable to Chlorination by Difference", approved 1998, referenced in Section 611.611.

"ASTM D2036-06 B" means "Standard Test Methods for Cyanide in Water", "Test Method B—Cyanides Amenable to Chlorination by Difference", approved 2006, referenced in Section 611.611.

Commented [SML16]: This needs to appear after "ASTM D2036-06 A" to appear in numerical order.

"ASTM D2459-72" means "Standard Test Method for Gamma Spectrometry in Water", approved July 28, 1972, discontinued 1988, referenced in Section 611.720.

"ASTM D2460-97" means "Standard Test Method for Radionuclides of Radium in Water", approved 1997, referenced in Section 611.720.

"ASTM D2460-07" means "Standard Test Method for Radionuclides of Radium in Water", approved 2007, referenced in Section 611.720.

Commented [SML17]: This needs to appear before "ASTM D2460-97" to appear in numerical order.

"ASTM D2907-97" means "Standard Test Methods for Microquantities of Uranium in Water by Fluorometry", approved 1997, referenced in Section 611.720.

"ASTM D2972-97 B" means "Standard Test Methods for Arsenic in Water", "Test Method B—Atomic Absorption, Hydride Generation", approved 1997, referenced in Section 611.611.

Commented [SML18]: This needs to appear after "ASTM D2972-15 C" once it is moved to appear in numerical order.

"ASTM D2972-03 B" means "Standard Test Methods for Arsenic in Water", "Test Method B—Atomic Absorption, Hydride Generation", approved 2003, referenced in Section 611.611.

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“ASTM D2972-15 B” means “Standard Test Methods for Arsenic in Water”, “Test Method B—Atomic Absorption, Hydride Generation”, approved 2015, referenced in Section 611.611.

“ASTM D2972-97 C” means “Standard Test Methods for Arsenic in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 1997, referenced in Section 611.611.

“ASTM D2972-03 C” means “Standard Test Methods for Arsenic in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 2003, referenced in Section 611.611.

“ASTM D2972-15 C” means “Standard Test Methods for Arsenic in Water”, “Test Method C—Atomic Absorption, Graphite Furnace”, approved 2015, referenced in Section 611.611.

“ASTM D3223-97” means “Standard Test Method for Total Mercury in Water”, approved 1997, referenced in Section 611.611.

“ASTM D3223-02” means “Standard Test Method for Total Mercury in Water”, approved 2002, referenced in Section 611.611.

“ASTM D3223-12” means “Standard Test Method for Total Mercury in Water”, approved 2012, referenced in Section 611.611.

“ASTM D3454-97” means “Standard Test Method for Radium-226 in Water”, approved 1997, referenced in Section 611.720.

“ASTM D3454-05” means “Standard Test Method for Radium-226 in Water”, approved 2005, referenced in Section 611.720.

“ASTM D3559-96 D” means “Standard Test Methods for Lead in Water”, “Test Method D—Atomic Absorption, Graphite Furnace”, approved August 6, 1990, referenced in Section 611.611.

“ASTM D3559-03 D” means “Standard Test Methods for Lead in Water”, “Test Method D—Atomic Absorption, Graphite Furnace”, approved 2003, referenced in Section 611.611.

“ASTM D3559-08 D” means “Standard Test Methods for Lead in Water”, “Test Method D—Atomic Absorption, Graphite Furnace”, approved 2008, referenced in Section 611.611.

Commented [SML19]: This needs to appear after "ASTM D2972-97 B" once it is moved to appear in numerical order.

Commented [SML20]: This needs to appear after "ASTM D2972-03B" to appear in numerical order.

Commented [SML21]: This needs to appear after "ASTM D2972-15 B" to appear in numerical order.

Commented [SML22]: This needs to appear after "ASTM D3233-12" to appear in numerical order.

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“ASTM D3559-15 D” means “Standard Test Methods for Lead in Water”, “Test Method D—Atomic Absorption, Graphite Furnace”, approved 2015, referenced in Section 611.611.

“ASTM D3645-97 B” means “Standard Test Methods for Beryllium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 1997, referenced in Section 611.611.

“ASTM D3645-03 B” means “Standard Test Methods for Beryllium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 2003, referenced in Section 611.611.

“ASTM D3645-08 B” means “Standard Test Methods for Beryllium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 2008, referenced in Section 611.611.

“ASTM D3645-15 B” means “Standard Test Methods for Beryllium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 2015, referenced in Section 611.611.

“ASTM D3649-91” means “Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water”, approved 1991, referenced in Section 611.720.

“ASTM D3649-98a” means “Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water”, approved 1998, referenced in Section 611.720.

“ASTM D3649-06” means “Standard Test Method for High-Resolution Gamma-Ray Spectrometry of Water”, approved 2006, referenced in Section 611.720.

“ASTM D3697-92” means “Standard Test Method for Antimony in Water”, approved 1992, referenced in Section 611.611.

“ASTM D3697-02” means “Standard Test Method for Antimony in Water”, approved 2002, referenced in Section 611.611.

“ASTM D3697-07” means “Standard Test Method for Antimony in Water”, approved 2007, referenced in Section 611.611.

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“ASTM D3697-12” means “Standard Test Method for Antimony in Water”, approved 2012, referenced in Section 611.611.

“ASTM D3859-98 A” means “Standard Test Methods for Selenium in Water”, “Method A—Atomic Absorption, Hydride Method”, approved 1998, referenced in Section 611.611.

“ASTM D3859-03 A” means “Standard Test Methods for Selenium in Water”, “Method A—Atomic Absorption, Hydride Method”, approved 2003, referenced in Section 611.611.

“ASTM D3859-08 A” means “Standard Test Methods for Selenium in Water”, “Method A—Atomic Absorption, Hydride Method”, approved 2008, referenced in Section 611.611.

“ASTM D3859-15 A” means “Standard Test Methods for Selenium in Water”, “Method A—Atomic Absorption, Hydride Method”, approved 2015, referenced in Section 611.611.

“ASTM D3859-98 B” means “Standard Test Methods for Selenium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 1998, referenced in Section 611.611.

“ASTM D3859-03 B” means “Standard Test Methods for Selenium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 2003, referenced in Section 611.611.

“ASTM D3859-08 B” means “Standard Test Methods for Selenium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 2008, referenced in Section 611.611.

“ASTM D3859-15 B” means “Standard Test Methods for Selenium in Water”, “Method B—Atomic Absorption, Graphite Furnace”, approved 2015, referenced in Section 611.611.

“ASTM D3867-90 A” means “Standard Test Methods for Nitrite-Nitrate in Water”, “Test Method A—Automated Cadmium Reduction”, approved 1990, referenced in Section 611.611.

“ASTM D3867-90 B” means “Standard Test Methods for Nitrite-Nitrate in Water”, “Test Method B—Manual Cadmium

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Reduction”, approved January 10, 1990, referenced in Section 611.611.

“ASTM D3972-97” means “Standard Test Method for Isotopic Uranium in Water by Radiochemistry”, approved 1997, referenced in Section 611.720.

“ASTM D3972-02” means “Standard Test Method for Isotopic Uranium in Water by Radiochemistry”, approved 2002, referenced in Section 611.720.

“ASTM D3972-09” means “Standard Test Method for Isotopic Uranium in Water by Radiochemistry”, approved 2009, referenced in Section 611.720.

“ASTM D4107-91” means “Standard Test Method for Tritium in Drinking Water”, approved 1991, referenced in Section 611.720.

“ASTM D4107-98” means “Standard Test Method for Tritium in Drinking Water”, approved 1998, referenced in Section 611.720.

“ASTM D4107-08” means “Standard Test Method for Tritium in Drinking Water”, approved 2008, referenced in Section 611.720.

“ASTM D4107-20” means “Standard Test Method for Tritium in Drinking Water”, approved 2020, referenced in Section 611.720.

“ASTM D4327-97” means “Standard Test Method for Anions in Water by Ion Chromatography”, approved 1997, referenced in Section 611.611.

“ASTM D4327-03” means “Standard Test Method for Anions in Water by Ion Chromatography”, approved 2003, referenced in Section 611.611.

“ASTM D4327-11” means “Standard Test Method for Anions in Water by Ion Chromatography”, approved 2011, referenced in Section 611.611.

“ASTM D4785-93” means “Standard Test Method for Low-Level Iodine-131 in Water”, approved 1993, referenced in Section 611.720.

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“ASTM D4785-00a” means “Standard Test Method for Low-Level Iodine-131 in Water”, approved 2000, referenced in Section 611.720.

“ASTM D4785-08” means “Standard Test Method for Low-Level Iodine-131 in Water”, approved 2008, referenced in Section 611.720.

“ASTM D4785-20” means “Standard Test Method for Low-Level Iodine-131 in Water”, approved 2020, referenced in Section 611.720.

“ASTM D5174-97” means “Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry”, approved 1997, referenced in Section 611.720.

“ASTM D5174-02” means “Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry”, approved 2002, referenced in Section 611.720.

“ASTM D5174-07” means “Standard Test Method for Trace Uranium in Water by Pulsed-Laser Phosphorimetry”, approved 2007, referenced in Section 611.720.

“ASTM D5317-93” means “Standard Test Method for Determination of Chlorinated Organic Acid Compounds in Water by Gas Chromatography with an Electron Capture Detector”, approved 1993, referenced in Section 611.645.

“ASTM D5317-98(2003)” means “Standard Test Method for Determination of Chlorinated Organic Acid Compounds in Water by Gas Chromatography with an Electron Capture Detector”, approved 1998 (reapproved 2003), referenced in Section 611.645.

“ASTM D5317-20” means “Standard Test Method for Determination of Chlorinated Organic Acid Compounds in Water by Gas Chromatography with an Electron Capture Detector”, approved 2020, referenced in Section 611.645.

“ASTM D5673-03” means “Standard Test Method for Elements in Water by Inductively Coupled Plasma-Mass Spectrometry”, approved 2003, referenced in Section 611.720.

Commented [SML23]: This should appear before "ASTM D5317-93" to appear in numerical order.

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“ASTM D5673-05” means “Standard Test Method for Elements in Water by Inductively Coupled Plasma-Mass Spectrometry”, approved 2005, referenced in Section 611.720.

“ASTM D5673-10” means “Standard Test Method for Elements in Water by Inductively Coupled Plasma-Mass Spectrometry”, approved 2010, referenced in Section 611.720.

“ASTM D5673-16” means “Standard Test Method for Elements in Water by Inductively Coupled Plasma-Mass Spectrometry”, approved 2016, referenced in Section 611.720.

“ASTM D6239-09” means “Standard Test Method for Uranium in Drinking Water by High-Resolution Alpha-Liquid-Scintillation Spectrometry”, approved 2009, referenced in Section 611.720.

“ASTM D6508-00(2005)” means “Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte”, approved 2000 (revised 2005), referenced in Section 611.611.

“ASTM D6508-15” means “Standard Test Method for Determination of Dissolved Inorganic Anions in Aqueous Matrices Using Capillary Ion Electrophoresis and Chromate Electrolyte”, approved 2015, referenced in Section 611.611.

“ASTM D6581-00” means “Standard Test Method for Bromate, Bromide, Chlorate, and Chlorite in Drinking Water by Chemically Suppressed Ion Chromatography”, approved 2000, referenced in Section 611.381.

“ASTM D6581-08 A” means “Standard Test Method for Bromate, Bromide, Chlorate, and Chlorite in Drinking Water by Suppressed Ion Chromatography”, “Test Method A—Chemically Suppressed Ion Chromatography”, approved 2008, referenced in Section 611.381.

“ASTM D6581-08 B” means “Standard Test Method for Bromate, Bromide, Chlorate, and Chlorite in Drinking Water by Suppressed Ion Chromatography”, “Test Method B—Electrolytically

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Suppressed Ion Chromatography”, approved 2008, referenced in Section 611.381.

“ASTM D6888-04” means “Standard Test Method for Available Cyanide with Ligand Displacement and Flow Injection Analysis (FIA) Utilizing Gas Diffusion Separation and Amperometric Detection”, approved 2004, referenced in Section 611.611.

“ASTM D6919-03” means “Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography”, approved 2003, referenced in Section 611.611.

“ASTM D6919-09” means “Standard Test Method for Determination of Dissolved Alkali and Alkaline Earth Cations and Ammonium in Water and Wastewater by Ion Chromatography”, approved 2009, referenced in Section 611.611.

“ASTM D7283-17” means “Standard Test Method for Alpha and Beta Activity in Water by Liquid Scintillation Counting”, approved 2017, referenced in Section 611.720.

“ATI Orion Technical Bulletin 601 (94)” means “Standard Method of Testing for Nitrate in Drinking Water” (July 1994), Part Number 221890-001. Available from Thermo-Fisher Scientific, 168 Third Ave, Waltham, MA 02451 (800-556-2323; www.thermofisher.com). Referenced in Section 611.611.

“Charm Fast Phage (12)” means “Fast Phage Test: Presence/Absence for Coliphage in Ground Water with Same Day Positive Prediction”, ATP Case No. D09-0007, Version 009 (November 28, 2012). Available from Charm Sciences, Inc., 659 Andover St., Lawrence, MA 01843-1032. Referenced in Section 611.802 and USEPA, OGWDW (under “Ground Water Rule (PDF)”).

“Chromocult® (00)” means “Chromocult® Coliform Agar Presence/Absence Membrane Filter Test Method for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters”, Version 1.0 (November 2000). Available from EMD Millipore (division of Merck KGgA, Darmstadt, Germany), 290 Concord Road, Billerica, MA 01821 (800-645-5476 or 781-533-6000) and USEPA,

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OGWDW (under “Ground Water Rule (PDF)” and “Revised Total Coliforms Rules (PDF)”). Referenced in Sections 611.802 and 611.1052.

“E*Colite (98)” means “Alternative Test Procedure Case #D95-0007: Charm E*Colite Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Drinking Water” (January 9, 1998). Available from Charm Sciences, Inc., 659 Andover St., Lawrence, MA 01843-1032 and USEPA, OGWDW (under “Ground Water Rule (PDF)” and “Revised Total Coliforms Rules (PDF)”). Referenced in Sections 611.802 and 611.1052.

EML Methods. Available from USEPA, OGWDW (listed under “Radionuclides (PDF)” by individual method numbers).

EML (90). In “EML Procedures Manual”, HASL 300, Volumes 1 and 2, 27th ed. (November 1990).

“EML (90) Ga-01” means section 4.5.2.3, Ga-01, “Gamma Radioassay”, in section 4.5.2.3, “Radiometry”, in 27th ed. Referenced in Section 611.720. USEPA, OGWDW lists EML (90) Ga-01 as “4.5.2.3”.

“EML (90) Ra-05” means Ra-05, “Radium-226 in Tap Water, Urine, and Feces”, in section 4.5.4, “Radiochemical”, in 27th ed. Referenced in Section 611.720.

“EML (90) Sr-01” means Sr-01, “Strontium-89”, in section 4.5.4, “Radiochemical”, in 27th ed. Referenced in Section 611.720.

“EML (90) Sr-02” means Sr-02, “Strontium-90”, in section 4.5.4, “Radiochemical”, in 27th ed. Referenced in Section 611.720.

“EML (90) U-02” means U-02, “Isotopic Uranium in Biological and Environmental Materials”, in section 4.5.4, “Radiochemical”, in 27th ed.

“EML (90) U-04” means U-04, “Uranium in Biological and Environmental Materials”, in section 4.5.4, “Radiochemical”, in 27th ed. Referenced in Section

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611.720.

EML (97). In "EML Procedures Manual", HASL 300, Volumes 1 and 2, 28th ed., Revision 0 (February 1997). Currently available on-line from United States Department of Homeland Security, Science and Technology Directorate (formerly United States Department of Energy, Environmental Measurements Laboratory) (www.hsdl.org/?abstract&doc=100185&coll=limited or www.wipp.energy.gov/namp/emllegacy/procman.htm).

"EML (97) Ga-01-R" means Ga-01-R, "Gamma Radioassay", in section 4.5.2, "Radiometry", in 28th ed. Referenced in Section 611.720.

"EML (97) Ra-04" means Ra-04-RC, "Radium-226 in Tap Water, Urine, and Feces", in section 4.5.4, "Radiochemical", in 28th ed. Referenced in Section 611.720.

"EML (97) Sr-01" means Sr-01-RC, "Strontium-89", in section 4.5.4, "Radiochemical", in 28th ed. Referenced in Section 611.720.

"EML (97) Sr-02" means Sr-02-RC, "Strontium-90", in section 4.5.4, "Radiochemical", in 28th ed. Referenced in Section 611.720.

"EML (97) U-02" means U-02-RC, "Isotopic Uranium in Biological and Environmental Materials", in section 4.5.4, "Radiochemical", in 28th ed.

"EML (97) U-04" means U-04-RC, "Uranium in Biological and Environmental Materials", in section 4.5.4, "Radiochemical", in 28th ed. Referenced in Section 611.720.

"Enterolert (96)" means "Evaluation of Enterolert for Enumeration of Enterococci in Recreational Waters", Applied and Environmental Microbiology, Oct. 1996, vol. 62, no. 10, p. 3881. Available from American Society for Microbiology, 1752 N Street N.W., Washington, DC 20036 (202-737-3600). Referenced in Section 611.802.

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BOARD NOTE: At the table to 40 CFR 141.402(c)(2), USEPA approved the method as described in the above literature review. The method itself is embodied in the printed instructions to the proprietary kit available from IDEXX Laboratories, Inc. (accessible on-line and available by download from www.asm.org, as “Enterolert™ Procedure”). ASTM approved the method as “Standard Test Method for Enterococci in Water Using Enterolert™”, which is available in two versions from ASTM: ASTM D6503-99 and ASTM D6503-99(2005). While it is more conventional to incorporate by reference the method as presented in the kit instructions or as approved by ASTM, the Board is constrained to incorporate by reference the version that USEPA has explicitly approved, which is the version that appears in the technical literature.

“Georgia Radium (04)” means “Method for the Determination of Radium-226 and Radium-228 in Drinking Water by Gamma-ray Spectrometry Using HPGE or Ge(Li) Detectors”, Revision 1.2 (December 2004). Available from Georgia Tech Research Institute, Robert Rosson, 925 Dalney Road, Atlanta, GA 30332 (404-407-6339) and USEPA, OGWDW (under “Radionuclides (PDF)”). Referenced in Section 611.720.

“GLI Method 2 (92)” means “Turbidity GLI Method 2” (November 2, 1992). Available from Great Lakes Instruments, Inc., 8855 North 55th Street, Milwaukee, WI 53223. Also available from USEPA, OGWDW (under “Surface Water Treatment Rule (PDF)”). Referenced in Section 611.531.

“Guidance Manual for Filtration and Disinfection (91)” means “Guidance Manual for Compliance with the Filtration and Disinfection Requirements for Public Water Systems Using Surface Water Sources” (March 1991), EPA 570/3-91-001, USEPA, Office of Drinking Water, Criteria and Standards Division, Science and Technology Branch. Available from NTRL (document number PB93-222933) and USEPA, NSCEP (search “570391001”). Referenced in Sections 611.111 and 611.212.

Hach Methods. Available from Hach Company, P.O. Box 389, Loveland, CO 80539-0389 (800-227-4224 or www.hach.com).

“Hach 8026 (15)” means Hach Method 8026, “Spectrophotometric Measurement of Copper in Finished Drinking Water”, Revision 1.2 (December 2015). Referenced in Section 611.611.

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BOARD NOTE: Also available from USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)").

"Hach 8195 (18)" means Hach Method 8195, "Determination of Turbidity by Nephelometry", Revision 3.0 (March 2018). Referenced in Section 611.531.

"Hach 10029 (99) (m-ColiBlue24[®])" means m-ColiBlue24[®] Test, Method No. 10029, "Total Coliforms and E. coli Membrane Filtration Method with m-ColiBlue24[®] Broth", Revision 2 (August 17, 1999), document number DOC316.53.001213. Referenced in Sections 611.802 and 611.1052.

BOARD NOTE: Also available from USEPA, OGWDW (under "Ground Water Rule (PDF)").

"Hach 10133 (00) (FilterTrak)" means Hach FilterTrak Method 10133, "Determination of Turbidity by Laser Nephelometry", Revision 2.0 (January 7, 2000) in Appendix A of "Introduction to Laser Nephelometry: An Alternative to Conventional Particulate Analysis Methods". Referenced in Section 611.531.

BOARD NOTE: Also available from USEPA, OGWDW (under "Surface Water Treatment Rule (PDF)").

"Hach 10206 (11) (TNTplus 835/836)" means Hach TNTplus 835/836 Method 10206, "Spectrophotometric Measurement of Nitrate in Water and Wastewater", Revision 2.0 (January 2011). Referenced in Section 611.611.

BOARD NOTE: Also available from USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)").

"Hach 10225 (11) (SPADNS 2)" means Hach SPADNS 2 Method 10225, "Fluoride, USEPA SPADNS 2 Method 10225", Revision 2.0 (January 2011). Referenced in Section 611.611.

BOARD NOTE: Also available from USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)").

"Hach 10241 (15)" means Hach Method 10241, "Spectrophotometric Measurement of Free Chlorine (Cl₂) in

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Finished Drinking Water”, Revision 1.2 (November 2015).

Referenced in Sections 611.381 and 611.531.

BOARD NOTE: Also available from USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“Hach 10258 (16)” means Hach Method 10258, “Determination of Turbidity by 360° Nephelometry”, Revision 1.0 (January 2016).

Referenced in Section 611.531.

BOARD NOTE: Also available from USEPA, OGWDW (under “Surface Water Treatment Rule (PDF)”).

“Hach 10258 (18)” means Hach Method 10258, “Determination of Turbidity by 360° Nephelometry”, Revision 2.0 (March 2018).

Referenced in Section 611.531.

“Hach 10260 (13)” means Hach Method 10260, “Determination of Chlorinated Oxidants (Free and Total) in Water Using Disposable Planar Reagent-filled Cuvettes and Mesofluic Channel Colorimetry” (April 2013). Referenced in Sections 611.381 and 611.531.

BOARD NOTE: Also available from USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“Hach 10261 (15)” means Hach Method 10261, “Total Organic Carbon in Finished Drinking Water by Catalyzed Ozone Hydroxyl Radical Oxidation Infrared Analysis”, Revision 1.2 (December 2015). Referenced in Section 611.381.

BOARD NOTE: Also available from USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“Hach 10267 (15)” means Hach Method 10267,

“Spectrophotometric Measurement of Total Organic Carbon (TOC) in Finished Drinking Water”, Revision 1.2 (December 2015). Referenced in Section 611.381.

BOARD NOTE: Also available from USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“Hach 10272 (15)” means Hach Method 10272,

“Spectrophotometric Measurement of Copper in Finished Drinking Water”, Revision 1.2 (December 2015). Referenced in Section 611.611.

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BOARD NOTE: Also available from USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)").

"ITS D99-003 (03)" means "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 (803-329-2999) and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)"). Referenced in Section 611.381.

"Kelada 01 (01)" means "Method Kelada-01: Kelada Automated Test Methods for Total Cyanide, Acid Dissociable Cyanide, and Thiocyanate", Revision 1.2 (August 2001), USEPA Office of Water, document number EPA 821/B-01-009. Available from NTRL (document number PB2001-108275) and USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)"). Referenced in Section 611.611.

Lovibond Methods. Available from Tintometer, Inc., 6456 Parkland Drive, Sarasota, FL 34243 (800-922-5242, 941-758-6410, or www.lovibond.us) and USEPA, OGWDW (under "Surface Water Treatment Rule (PDF)").

"Lovibond PTV 1000 (16)" means "Continuous Measurement of Drinking Water Turbidity Using a Lovibond PTV 1000 White Light LED Turbidimeter", Revision 1.0 (December 20, 2016). Referenced in Section 611.531.

"Lovibond PTV 2000 (16)" means "Continuous Measurement of Drinking Water Turbidity Using a Lovibond PTV 2000 660-nm LED Turbidimeter", Revision 1.0 (December 20, 2016). Referenced in Section 611.531.

"Lovibond TB 3500 (21)" means "Measurement of Drinking Water Turbidity of a Captured Sample Using a Lovibond White Light LED Portable Turbidimeter", Revision 1.0 (2021). Referenced in Section 611.531.

"Lovibond TB 5000 (21)" means "Measurement of Drinking Water Turbidity of a Captured Sample Using a Lovibond 660-nm LED Portable Turbidimeter", Revision 1.0 (2021). Referenced in Section 611.531.

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“Lovibond PTV 6000 (16)” means “Continuous Measurement of Drinking Water Turbidity Using a Lovibond PTV 6000 Laser Turbidimeter”, Revision 1.0 (December 20, 2016). Referenced in Section 611.531.

“Lovibond TB 6000 (21)” means “Measurement of Drinking Water Turbidity of a Captured Sample Using a Lovibond Portable Laser Turbidimeter”, Revision 1.0 (2021). Referenced in Section 611.531.

“ME355.01 (09)” means “Determination of Cyanide in Drinking Water by GC/MS Headspace Analysis”, Revision 1 (May 26, 2009). Available from H&E Testing Laboratory, 221 State Street, Augusta, ME 04333 (207-287-2727). Referenced in Section 611.611. Available from the publisher; NEMI; and USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”).

Mitchell Methods. Available from Leck Mitchell, PhD, PE, 656 Independence Valley Dr., Grand Junction, CO 81507 (920-244-8661); , NEMI (except for Mitchell M5331 (16)); and USEPA, OGWDW (under “Surface Water Treatment Rule (PDF)”).

“Mitchell M5271 (09)” means Mitchell Method M5271, “Determination of Turbidity by Laser Nephelometry”, Revision 1.1 (March 5, 2009). Referenced in Section 611.531.

“Mitchell M5331 (09)” means Mitchell Method M5331, “Determination of Turbidity by Laser Nephelometry”, Revision 1.1 (March 2009). Referenced in Section 611.531.

“Mitchell M5331 (16)” means Mitchell Method M5331, “Determination of Turbidity by Laser Nephelometry”, Revision 1.2 (February 2016). Referenced in Section 611.531.

“Modified Colitag™ (09)” means “Modified Colitag™ Test Method for Simultaneous Detection of E. coli and other Total Coliforms in Water”, (ATP D05-0035) (August 28, 2009). Available from CPI International, Inc., 5580 Skylane Blvd., Santa Rosa, CA 95403 (800-878-7654; www.cpiinternational.com); NEMI; and USEPA, OGWDW (under “Ground Water Rule (PDF)” and “Revised Total Coliforms Rules (PDF)”). Referenced in Sections 611.802 and 611.1052.

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“NBS Handbook 69 (63)” means “Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure” (August 1963), U.S. Department of Commerce, National Bureau of Standards. Available from International Atomic Energy Agency (IAEA), Vienna International Centre, PO Box 100, 1400 Vienna, Austria, ((+43-1) 2600-0; www.iaea.org/~/Public/048/37048205.pdf) or Oak Ridge Associated Universities (ORAU), MC100-44, PO Box 117, Oak Ridge, TN 37831-0117 (865-576-3146). Referenced in Sections 611.101 and 611.330. BOARD NOTE: The 1963 version of National Bureau of Standards Handbook 69 modifies the 1959 publication of the National Committee on Radiation Protection, NCRP Report No. 22, of the same title. The version available on the NCRP website is the 1959 document.

“NECi Nitrate Reductase (06)” means “Method for Nitrate Reductase Nitrate-Nitrogen Analysis of Drinking Water”, Version 1.0, Revision 2.0 (February 1, 2016). Available from Superior Enzymes Inc., 334 Hecla Street, Lake Linden, Michigan 49945 (906-296-1115). Also available from USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”). Referenced in Section 611.611.

“New Jersey Radium (90)” means “Determination of Ra-228 in Drinking Water” (August 1990), New Jersey Department of Environmental Protection, Division of Environmental Quality, Bureau of Radiation and Inorganic Analytical Services. Available from publisher, 9 Ewing Street, Trenton, NJ 08625. Referenced in Section 611.720.

“New York Radium (82)” means “Determination of ²²⁶Ra and ²²⁸Ra, Ra-02” (January 1980, revised June 1982), Radiological Sciences Institute, Center for Laboratories and Research, New York State Department of Health. Available from publisher, Empire State Plaza, Albany, NY 12201. Referenced in Section 611.720.

“OIA-1677 (04)” means “Method OIA-1677 DW, Available Cyanide by Flow Injection, Ligand Exchange, and Amperometry” (January 2004), document number EPA 821/R-04/001. Referenced in Section 611.611. Available from ALPKEM, Division of OI Analytical, P.O. Box 9010, College Station, TX 77842-9010, telephone: 979-690-1711, Internet: www.oico.com; USEPA, NSCEP (search “821R04001”); and USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”).

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“Orion AQ4500 (09)” means “Determination of Turbidity by LED Nephelometry”, Revision 5 (March 12, 2009). Available from Thermo-Fisher Scientific, 168 Third Ave, Waltham, MA 02451 (800-556-2323 or www.thermofisher.com); NEMI; and USEPA, OGWDW (under “Surface Water Treatment Rule (PDF)”). Referenced in Section 611.531.

Palintest Methods. Available from Palintest, Ltd., 1455 Jamike Avenue, Suite 100, Erlanger, KY (800-835-9629).

“Palintest 1001 (99)” means “Method 1001: Lead in Drinking Water by Differential Pulse Anodic Stripping Voltammetry”, August 1999, referenced in Section 611.611.

BOARD NOTE: Also available from USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”).

“Palintest ChlordioX Plus (13)” means “Chlorine Dioxide and Chlorite in Drinking Water by Amperometry using Disposable Sensors”, November 2013, referenced in Sections 611.381 and 611.531.

BOARD NOTE: Also available from USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“Palintest ChloroSense (09)” means “Measurement of Free and Total Chlorine in Drinking Water by Palintest ChloroSense”, September 2009, referenced in Sections 611.381 and 611.531.

BOARD NOTE: Also available from NEMI and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“QuikChem 10-204-00-1-X (00)” means “Digestion and distillation of total cyanide in drinking and wastewaters using MICRO DIST and determination of cyanide by flow injection analysis”, Revision 2.1 (November 30, 2000). Available from Lachat Instruments, 6645 W. Mill Rd., Milwaukee, WI 53218 (414-358-4200) and USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”). Referenced in Section 611.611.

“Readycult® (07)” means “Readycult Coliforms 100 Presence/Absence Test for Detection and Identification of Coliform Bacteria and Escherichia coli in Finished Waters”, Version 1.1 (January 2007). Available from EMD Millipore (division of Merck KGaA, Darmstadt, Germany), 290

Commented [SML24]: When this rule was adopted at 44 Ill. Reg. 6996, effective April 17, 2020, our office did not catch that the zip code was not provided for the address in “KY” and it needs to be included at this time.

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Concord Road, Billerica, MA 01821 (800-645-5476 or 781-533-6000) and USEPA, OGWDW (under “Ground Water Rule (PDF)” and “Revised Total Coliforms Rules (PDF)”). Referenced in Sections 611.802 and 611.1052.

“SimPlate (00)” means “IDEXX SimPlate™ HPC Test Method for Heterotrophs in Water” (November 29, 2000). Available from IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, Maine 04092 (800-321-0207). Referenced in Section 611.531.

SM Methods. Approved as the version in the indicated editions of “Standard Methods for the Examination of Water and Wastewater” Available from the American Public Health Association, 800 I Street NW, Washington, DC 20005, 202-777-2742, www.awwa.org/store; American Water Works Association, 6666 West Quincy Ave., Denver, CO 80235, 303-794-7711; Water Environment Federation, 601 Wythe Street, Alexandria, VA 22314, 800-666-0206, www.wef.org; or Standard Methods Online, 800-633-4931, www.standardmethods.org.

BOARD NOTE: The Board does not separately list methods from Standard Methods Online that also appear in the same version in a printed edition. Use of the approved method in the version indicated from Standard Methods Online is acceptable.

“SM 302 (71)” means Method 302, “Gross Alpha and Gross Beta Radioactivity in Water (Total, Suspended, and Dissolved)”, only the version in the 13th edition. Referenced in Section 611.720.

“SM 303 (71)” means Method 303, “Total Radioactive Strontium and Strontium 90 in Water”, only the version in the 13th edition. Referenced in Section 611.720.

“SM 304 (71)” means Method 304, “Radium in Water by Precipitation”, only the version in the 13th edition. Referenced in Section 611.720.

“SM 305 (71)” means Method 305, “Radium 226 by Radon in Water (Soluble, Suspended, and Total)”, only the version in the 13th edition. Referenced in Section 611.720.

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“SM 306 (71)” means Method 306, “Tritium in Water”, in “Standard Methods for the Examination of Water and Wastewater”, only the version in the 13th edition. Referenced in Section 611.720.

“SM 2130 B (88)” means Method 2130 B, “Turbidity”, “Nephelometric Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 2130 B (94)” means Method 2130 B, “Turbidity”, “Nephelometric Method”, only the version in the 19th and 20th editions. Referenced in Section 611.531.

“SM 2130 B (01)” means Method 2130 B, “Turbidity”, “Nephelometric Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.531.

“SM 2320 B (91)” means Method 2320 B, “Alkalinity”, “Titration Method”, only the version in the 18th and 19th editions. Referenced in Section 611.611.

“SM 2320 B (97)” means Method 2320 B, “Alkalinity”, “Titration Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 2510 B (91)” means Method 2510 B, “Conductivity”, “Laboratory Method”, only the version in the 18th and 19th editions. Referenced in Section 611.611.

“SM 2510 B (97)” means Method 2510 B, “Conductivity”, “Laboratory Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 2550 (88)” means Method 2550, “Temperature, Laboratory and Field Methods”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 2550 (93)” means Method 2550, “Temperature, Laboratory and Field Methods”, only the version in the 19th and 20th editions. Referenced in Section 611.611.

“SM 2550 (00)” means Method 2550, “Temperature, Laboratory

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and Field Methods”, only the version in the 21st edition. Referenced in Section 611.611.

“SM 2550 (10)” means Method 2550, “Temperature, Laboratory and Field Methods”, only the version in the 22nd and 23rd editions. Referenced in Section 611.611.

“SM 3111 B (89)” means Method 3111 B, “Metals by Flame Atomic Absorption Spectrometry”, “Direct Air-Acetylene Flame Method”, only the version in the 18th edition. Referenced in Sections 611.611 and 611.612.

“SM 3111 B (93)” means Method 3111 B, “Metals by Flame Atomic Absorption Spectrometry”, “Direct Air-Acetylene Flame Method”, only the version in the 19th edition. Referenced in Sections 611.611 and 611.612.

“SM 3111 B (99)” means Method 3111 B, “Metals by Flame Atomic Absorption Spectrometry”, “Direct Air-Acetylene Flame Method”. Referenced in Sections 611.611 and 611.612.

“SM 3111 D (89)” means Method 3111 D, “Metals by Flame Atomic Absorption Spectrometry”, “Direct Nitrous Oxide-Acetylene Flame Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 3111 D (93)” means Method 3111 D, “Metals by Flame Atomic Absorption Spectrometry”, “Direct Nitrous Oxide-Acetylene Flame Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 3111 D (99)” means Method 3111 D, “Metals by Flame Atomic Absorption Spectrometry”, “Direct Nitrous Oxide-Acetylene Flame Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 3112 B (88)” means Method 3112 B, “Metals by Cold-Vapor Atomic Absorption Spectrometry”, “Cold-Vapor Atomic Absorption Spectrometric Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 3112 B (93)” means Method 3112 B, “Metals by Cold-Vapor

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Atomic Absorption Spectrometry”, “Cold-Vapor Atomic Absorption Spectrometric Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 3112 B (99)” means Method 3112 B, “Metals by Cold-Vapor Atomic Absorption Spectrometry”, “Cold-Vapor Atomic Absorption Spectrometric Method”, only the version in the 21st edition. Referenced in Section 611.611.

“SM 3112 B (09)” means Method 3112 B, “Metals by Cold-Vapor Atomic Absorption Spectrometry”, “Cold-Vapor Atomic Absorption Spectrometric Method”, only the version in the 22nd and 23rd editions. Referenced in Section 611.611.

“SM 3113 B (89)” means Method 3113 B, “Metals by Electrothermal Atomic Absorption Spectrometry”, “Electrothermal Atomic Absorption Spectrometric Method”, only the version in the 18th edition. Referenced in Sections 611.611 and 611.612.

“SM 3113 B (93)” means Method 3113 B, “Metals by Electrothermal Atomic Absorption Spectrometry”, “Electrothermal Atomic Absorption Spectrometric Method”, only the version in the 19th edition. (The same version appears in the 20th edition but USEPA has not approved that edition.) Referenced in Sections 611.611 and 611.612.

“SM 3113 B (99)” means Method 3113 B, “Metals by Electrothermal Atomic Absorption Spectrometry”, “Electrothermal Atomic Absorption Spectrometric Method”, only the version in the 21st edition. Referenced in Sections 611.611 and 611.612.

“SM 3113 B (04)” means Method 3113 B, “Metals by Electrothermal Atomic Absorption Spectrometry”, “Electrothermal Atomic Absorption Spectrometric Method”, only the version from Standard Methods Online as Method 3113 B-04. Referenced in Sections 611.611 and 611.612.

“SM 3113 B (10)” means Method 3113 B, “Metals by Electrothermal Atomic Absorption Spectrometry”, “Electrothermal Atomic Absorption Spectrometric Method”, only the version in the 22nd and 23rd editions. Referenced in Sections 611.611 and

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611.612.

“SM 3114 B (89)” means Method 3114 B, “Metals by Hydride Generation/Atomic Absorption Spectrometry”, “Manual Hydride Generation/Atomic Absorption Spectrometric Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 3114 B (93)” means Method 3114 B, “Metals by Hydride Generation/Atomic Absorption Spectrometry”, “Manual Hydride Generation/Atomic Absorption Spectrometric Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 3114 B (97)” means Method 3114 B, “Metals by Hydride Generation/Atomic Absorption Spectrometry”, “Manual Hydride Generation/Atomic Absorption Spectrometric Method”, only the version in the 21st edition. (The same version appears in the 20th edition, but USEPA has not approved that edition.) Referenced in Section 611.611.

“SM 3114 B (09)” means Method 3114 B, “Metals by Hydride Generation/Atomic Absorption Spectrometry”, “Manual Hydride Generation/Atomic Absorption Spectrometric Method”, only the version in the 22nd and 23rd editions. Referenced in Section 611.611.

“SM 3120 B (89)” means Method 3120 B, “Metals by Plasma Emission Spectroscopy”, “Inductively Coupled Plasma (ICP) Method”, only the version in the 18th edition. Referenced in Sections 611.611 and 611.612.

“SM 3120 B (93)” means Method 3120 B, “Metals by Plasma Emission Spectroscopy”, “Inductively Coupled Plasma (ICP) Method”, only the version in the 19th and 20th editions. Referenced in Sections 611.611 and 611.612.

“SM 3120 B (99)” means Method 3120 B, “Metals by Plasma Emission Spectroscopy”, “Inductively Coupled Plasma (ICP) Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.611 and 611.612.

“SM 3125 (97)” means Method 3125, “Metals by Inductively

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Coupled Plasma/Mass Spectrometry”, only the version in the 20th and 21st editions. Referenced in Section 611.720.

“SM 3500-Ca B (97)” means Method 3500-Ca B, “Calcium”, “EDTA Titrimetric Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 3500-Ca D (91)” means Method 3500-Ca D, “Calcium”, “EDTA Titrimetric Method”, only the version in the 18th and 19th editions. Referenced in Section 611.611.

“SM 3500-Mg B (97)” means Method 3500-Mg B, “Magnesium”, “Calculation Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 3500-Mg E (90)” means Method 3500-Mg E, “Magnesium”, “Calculation Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 3500-Mg E (91)” means Method 3500-Mg E, “Magnesium”, “Calculation Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4110 B (90)” means Method 4110 B, “Determination of Anions by Ion Chromatography”, “Ion Chromatography with Chemical Suppression of Eluent Conductivity”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4110 B (91)” means Method 4110 B, “Determination of Anions by Ion Chromatography”, “Ion Chromatography with Chemical Suppression of Eluent Conductivity”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4110 B (97)” means Method 4110 B, “Determination of Anions by Ion Chromatography”, “Ion Chromatography with Chemical Suppression of Eluent Conductivity”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4110 B (00)” means Method 4110 B, “Determination of Anions by Ion Chromatography”, “Ion Chromatography with Chemical Suppression of Eluent Conductivity”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

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“SM 4500-C1 D (89)” means Method 4500-C1 D, “Chlorine (Residual)”, “Amperometric Titration Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-C1 D (93)” means Method 4500-C1 D, “Chlorine (Residual)”, “Amperometric Titration Method”, only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

“SM 4500-C1 D (00)” means Method 4500-C1 D, “Chlorine (Residual)”, “Amperometric Titration Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

“SM 4500-C1 E (89)” means Method 4500-C1 E, “Chlorine (Residual)”, “Low-Level Amperometric Titration Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-C1 E (93)” means Method 4500-C1 E, “Chlorine (Residual)”, “Low-Level Amperometric Titration Method”, only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

“SM 4500-C1 E (00)” means Method 4500-C1 E, “Chlorine (Residual)”, “Low-Level Amperometric Titration Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

“SM 4500-C1 F (89)” means Method 4500-C1 F, “Chlorine (Residual)”, “DPD Ferrous Titrimetric Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-C1 F (93)” means Method 4500-C1 F, “Chlorine (Residual)”, “DPD Ferrous Titrimetric Method”, only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

“SM 4500-C1 F (00)” means Method 4500-C1 F, “Chlorine (Residual)”, “DPD Ferrous Titrimetric Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

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"SM 4500-CI G (89)" means Method 4500-CI G, "Chlorine (Residual)", "DPD Colorimetric Method", only the version in the 18th edition. Referenced in Section 611.531.

"SM 4500-CI G (93)" means Method 4500-CI G, "Chlorine (Residual)", "DPD Colorimetric Method", only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-CI G (00)" means Method 4500-CI G, "Chlorine (Residual)", "DPD Colorimetric Method", only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-CI H (89)" means Method 4500-CI H, "Chlorine (Residual)", "Syringaldazine (FACTS) Method", only the version in the 18th edition. Referenced in Section 611.531.

"SM 4500-CI H (93)" means Method 4500-CI H, "Chlorine (Residual)", "Syringaldazine (FACTS) Method", only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-CI H (00)" means Method 4500-CI H, "Chlorine (Residual)", "Syringaldazine (FACTS) Method", only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-CI I (89)" means Method 4500-CI I, "Chlorine (Residual)", "Iodometric Electrode Method", only the version in the 18th edition. Referenced in Section 611.531.

"SM 4500-CI I (93)" means Method 4500-CI I, "Chlorine (Residual)", "Iodometric Electrode Method", only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-CI I (00)" means Method 4500-CI I, "Chlorine (Residual)", "Iodometric Electrode Method", only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

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"SM 4500-ClO₂ C (88)" means Method 4500-ClO₂ C, "Chlorine Dioxide", "Amperometric Method I", only the version in the 18th edition. Referenced in Sections 611.381 and 611.531.

"SM 4500-ClO₂ C (93)" means Method 4500-ClO₂ C, "Chlorine Dioxide", "Amperometric Method I", only the version in the 19th and 20th editions. Referenced in Section 611.531.

"SM 4500-ClO₂ C (00)" means Method 4500-ClO₂ C, "Chlorine Dioxide", "Amperometric Method I", only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.531.

"SM 4500-ClO₂ D (88)" means Method 4500-ClO₂ D, "Chlorine Dioxide", "DPD Method", only the version in the 18th edition. Referenced in Section 611.531.

"SM 4500-ClO₂ D (93)" means Method 4500-ClO₂ D, "Chlorine Dioxide", "DPD Method", only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-ClO₂ D (00)" means Method 4500-ClO₂ D, "Chlorine Dioxide", "DPD Method", only the version in the 21st edition. Referenced in Section 611.381.

"SM 4500-ClO₂ E (88)" means Method 4500-ClO₂ E, "Chlorine Dioxide", "Amperometric Method II (Proposed)", only the version in the 18th edition. Referenced in Section 611.531.

"SM 4500-ClO₂ E (93)" means Method 4500-ClO₂ E, "Chlorine Dioxide", "Amperometric Method II", only the version in the 19th and 20th editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-ClO₂ E (00)" means Method 4500-ClO₂ E, "Chlorine Dioxide", "Amperometric Method II", only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

"SM 4500-CN⁻ C (90)" means Method 4500-CN⁻ C, "Cyanide", "Total Cyanide after Distillation", only the version in the 18th and 19th editions. Referenced in Section 611.611.

"SM 4500-CN⁻ C (97)" means Method 4500-CN⁻ C, "Cyanide",

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Commented [SML42]: This should appear before "SM 4500-ClO₂ D (88)" to appear in numerical order.

Commented [SML43]: This should appear before "SM 4500-ClO₂ E (88)" to appear in numerical order.

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“Total Cyanide after Distillation”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-CN⁻ C (99)” means Method 4500-CN⁻ C, “Cyanide”, “Total Cyanide after Distillation”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-CN⁻ C (16)” means Method 4500-CN⁻ C, “Cyanide”, “Total Cyanide after Distillation”, only the version in the 23rd edition. Referenced in Section 611.611.

“SM 4500-CN⁻ E (90)” means Method 4500-CN⁻ E, “Cyanide”, “Colorimetric Method”, only the version in the 18th and 19th editions. Referenced in Section 611.611.

“SM 4500-CN⁻ E (97)” means Method 4500-CN⁻ E, “Cyanide”, “Colorimetric Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-CN⁻ E (99)” means Method 4500-CN⁻ E, “Cyanide”, “Colorimetric Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-CN⁻ E (16)” means Method 4500-CN⁻ E, “Cyanide”, “Colorimetric Method”, only the version in the 23rd edition. Referenced in Section 611.611.

“SM 4500-CN⁻ F (90)” means Method 4500-CN⁻ F, “Cyanide”, “Cyanide-Selective Electrode Method”, only the version in the 18th and 19th editions. Referenced in Section 611.611.

“SM 4500-CN⁻ F (97)” means Method 4500-CN⁻ F, “Cyanide”, “Cyanide-Selective Electrode Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-CN⁻ F (99)” means Method 4500-CN⁻ F, “Cyanide”, “Cyanide-Selective Electrode Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-CN⁻ F (16)” means Method 4500-CN⁻ F, “Cyanide”, “Cyanide-Ion Selective Electrode Method”, only the version in the 23rd edition. Referenced in Section 611.611.

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Commented [SML46]: This needs to appear before SM 4500-CN -F (90)" to appear in numerical order.

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"SM 4500-CN⁻ G (90)" means Method 4500-CN⁻ G, "Cyanide", "Cyanides Amenable to Chlorination after Distillation", only the version in the 18th and 19th editions. Referenced in Section 611.611.

"SM 4500-CN⁻ G (97)" means Method 4500-CN⁻ G, "Cyanide", "Cyanides Amenable to Chlorination after Distillation", only the version in the 20th edition. Referenced in Section 611.611.

"SM 4500-CN⁻ G (99)" means Method 4500-CN⁻ G, "Cyanide", "Cyanides Amenable to Chlorination after Distillation", only the version in the 21st and 22nd editions. Referenced in Section 611.611.

"SM 4500-CN⁻ G (16)" means Method 4500-CN⁻ G, "Cyanide", "Cyanides Amenable to Chlorination after Distillation", only the version in the 23rd edition. Referenced in Section 611.611.

Commented [SML47]: This needs to appear before SM 4500-CN⁻ G (90)" to appear in numerical order.

"SM 4500-F⁻ B (88)" means Method 4500-F⁻ B, "Fluoride", "Preliminary Distillation Step", only the version in the 18th edition. Referenced in Section 611.611.

"SM 4500-F⁻ B (94)" means Method 4500-F⁻ B, "Fluoride", "Preliminary Distillation Step", only the version in the 19th edition. Referenced in Section 611.611.

"SM 4500-F⁻ B (97)" means Method 4500-F⁻ B, "Fluoride", "Preliminary Distillation Step", only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

"SM 4500-F⁻ C (88)" means Method 4500-F⁻ C, "Fluoride", "Ion-Selective Electrode Method", only the version in the 18th edition. Referenced in Section 611.611.

Commented [SML48]: This should appear after "SM 4500-F B (88)" to appear in numerical order.

"SM 4500-F⁻ C (94)" means Method 4500-F⁻ C, "Fluoride", "Ion-Selective Electrode Method", only the version in the 19th edition. Referenced in Section 611.611.

Commented [SML49]: This should appear after "SM 4500-F B (94)" to appear in numerical order.

"SM 4500-F⁻ C (97)" means Method 4500-F⁻ C, "Fluoride", "Ion-Selective Electrode Method", only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

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“SM 4500-F⁻ D (88)” means Method 4500-F⁻ D, “Fluoride”, “SPADNS Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-F⁻ D (94)” means Method 4500-F⁻ D, “Fluoride”, “SPADNS Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-F⁻ D (97)” means Method 4500-F⁻ D, “Fluoride”, “SPADNS Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 4500-F⁻ E (88)” means Method 4500-F⁻ E, “Fluoride”, “Complexone Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-F⁻ E (94)” means Method 4500-F⁻ E, “Fluoride”, “Complexone Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-F⁻ E (97)” means Method 4500-F⁻ E, “Fluoride”, “Complexone Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 4500-H⁺ B (90)” means Method 4500-H⁺ B, “pH Value”, “Electrometric Method”, only the version in the 18th and 19th editions. Referenced in Section 611.611.

“SM 4500-H⁺ B (96)” means Method 4500-H⁺ B, “pH Value”, “Electrometric Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-H⁺ B (00)” means Method 4500-H⁺ B, “pH Value”, “Electrometric Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 4500-NO₃⁻ D (88)” means Method 4500-NO₃⁻ D, “Nitrogen (Nitrate)”, “Nitrate Electrode Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ D (93)” means Method 4500-NO₃⁻ D, “Nitrogen (Nitrate)”, “Nitrate Electrode Method”, only the version in the 19th

Commented [SML50]: This should appear after "SM 4500-F D (88)" to appear in numerical order.

Commented [SML51]: This should appear after "SM 4500-F D (94)" to appear in numerical order.

Commented [SML52]: This needs to appear before " SM 4500-H+ B (90)" to appear in numerical order.

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edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ D (97)” means Method 4500-NO₃⁻ D, “Nitrogen (Nitrate)”, “Nitrate Electrode Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ D (00)” means Method 4500-NO₃⁻ D, “Nitrogen (Nitrate)”, “Nitrate Electrode Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-NO₃⁻ D (16)” means Method 4500-NO₃⁻ D, “Nitrogen (Nitrate)”, “Nitrate Electrode Method”, only the version in the 23rd edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ E (88)” means Method 4500-NO₃⁻ E, “Nitrogen (Nitrate)”, “Cadmium Reduction Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ E (93)” means Method 4500-NO₃⁻ E, “Nitrogen (Nitrate)”, “Cadmium Reduction Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ E (97)” means Method 4500-NO₃⁻ E, “Nitrogen (Nitrate)”, “Cadmium Reduction Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ E (00)” means Method 4500-NO₃⁻ E, “Nitrogen (Nitrate)”, “Cadmium Reduction Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-NO₃⁻ E (16)” means Method 4500-NO₃⁻ E, “Nitrogen (Nitrate)”, “Cadmium Reduction Method”, only the version in the 23rd edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ F (88)” means Method 4500-NO₃⁻ F, “Nitrogen (Nitrate)”, “Automated Cadmium Reduction Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ F (93)” means Method 4500-NO₃⁻ F, “Nitrogen (Nitrate)”, “Automated Cadmium Reduction Method”, only the version in the 19th edition. Referenced in Section 611.611.

Commented [SML53]: These need to appear before “SM 4500- NO3- D (88)” to appear in numerical order.

Commented [SML54]: These need to appear before “SM 4500- NO3- E (88)” to appear in numerical order.

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“SM 4500-NO₃⁻ F (97)” means Method 4500-NO₃⁻ F, “Nitrogen (Nitrate)”, “Automated Cadmium Reduction Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-NO₃⁻ F (00)” means Method 4500-NO₃⁻ F, “Nitrogen (Nitrate)”, “Automated Cadmium Reduction Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-NO₃⁻ F (16)” means Method 4500-NO₃⁻ F, “Nitrogen (Nitrate)”, “Automated Cadmium Reduction Method”, only the version in the 23rd edition. Referenced in Section 611.611.

“SM 4500-NO₂⁻ B (88)” means Method 4500-NO₂⁻ B, “Nitrogen (Nitrite)”, “Colorimetric Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-NO₂⁻ B (93)” means Method 4500-NO₂⁻ B, “Nitrogen (Nitrite)”, “Colorimetric Method”, only the version in the 19th and 20th editions. Referenced in Section 611.611.

“SM 4500-NO₂⁻ B (00)” means Method 4500-NO₂⁻ B, “Nitrogen (Nitrite)”, “Colorimetric Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 4500-O₃ B (88)” means Method 4500-O₃ B, “Ozone (Residual) (Proposed)”, “Indigo Colorimetric Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-O₃ B (93)” means Method 4500-O₃ B, “Ozone (Residual)”, “Indigo Colorimetric Method”, only the version in the 19th edition. Referenced in Section 611.531.

“SM 4500-O₃ B (97)” means Method 4500-O₃ B, “Ozone (Residual)”, “Indigo Colorimetric Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.531.

“SM 4500-P E (88)” means Method 4500-P E, “Phosphorus”, “Ascorbic Acid Method”, only the version in the 18th edition. Referenced in Section 611.611.

Commented [SML55]: These need to appear before “SM 4500-NO₃⁻ F (88)” to appear in numerical order.

Commented [SML56]: This needs to appear before “SM 4500-NO₂⁻ B (88)” to appear in numerical order.

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“SM 4500-P E (93)” means Method 4500-P E, “Phosphorus”, “Ascorbic Acid Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-P E (97)” means Method 4500-P E, “Phosphorus”, “Ascorbic Acid Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-P E (99)” means Method 4500-P E, “Phosphorus”, “Ascorbic Acid Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-P E (05)” means Method 4500-P E, “Phosphorus”, “Ascorbic Acid Method”, only the version in the 23rd edition. Referenced in Section 611.611.

Commented [SML57]: This needs to appear before “SM 4500-P E (88)” to appear in numerical order.

“SM 4500-P F (88)” means Method 4500-P F, “Phosphorus”, “Automated Ascorbic Acid Reduction Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-P F (93)” means Method 4500-P F, “Phosphorus”, “Automated Ascorbic Acid Reduction Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-P F (97)” means Method 4500-P F, “Phosphorus”, “Automated Ascorbic Acid Reduction Method”, only the version in the 20th edition. Referenced in Section 611.611.

“SM 4500-P F (99)” means Method 4500-P F, “Phosphorus”, “Automated Ascorbic Acid Reduction Method”, only the version in the 21st and 22nd editions. Referenced in Section 611.611.

“SM 4500-P F (05)” means Method 4500-P F, “Phosphorus”, “Automated Ascorbic Acid Reduction Method”, only the version in the 23rd edition. Referenced in Section 611.611.

Commented [SML58]: This needs to appear before “SM 4500-P F (88)” to appear in numerical order.

“SM 4500-Si D (88)” means Method 4500-Si D, “Silica”, “Molybdosilicate Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-Si D (93)” means Method 4500-Si D, “Silica”, “Molybdosilicate Method”, only the version in the 19th edition.

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Referenced in Section 611.611.

“SM 4500-Si E (88)” means Method 4500-Si E, “Silica”, “Molybdosilicate Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-Si E (93)” means Method 4500-Si E, “Silica”, “Molybdosilicate Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-Si F (88)” means Method 4500-Si F, “Silica”, “Molybdosilicate Method”, only the version in the 18th edition. Referenced in Section 611.611.

“SM 4500-Si F (93)” means Method 4500-Si F, “Silica”, “Molybdosilicate Method”, only the version in the 19th edition. Referenced in Section 611.611.

“SM 4500-SiO₂ C (97)” means Method 4500-SiO₂ C, “Silica”, “Molybdosilicate Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 4500-SiO₂ D (97)” means Method 4500-SiO₂ D, “Silica”, “Heteropoly Blue Method”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 4500-SiO₂ E (97)” means Method 4500-SiO₂ E, “Silica”, “Automated Method for Molybdate-Reactive Silica”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.611.

“SM 5310 B (92)” means Method 5310 B, “Total Organic Carbon (TOC)”, “Combustion-Infrared Method”, only the version in the supplement to the 19th edition. Referenced in Section 611.381.

“SM 5310 B (96)” means Method 5310 B, “Total Organic Carbon (TOC)”, “High-Temperature Combustion Method”, only the version in the 20th edition. Referenced in Section 611.381.

“SM 5310 B (00)” means Method 5310 B, “Total Organic Carbon (TOC)”, “High-Temperature Combustion Method”, only the version in the 21st and 22nd editions. Referenced in Section

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611.381.

"SM 5310 B (14)" means Method 5310 B, "Total Organic Carbon (TOC)", "High-Temperature Combustion Method", only the version in the 23rd edition. Referenced in Section 611.381.

Commented [SML59]: These need to appear before "SM 5310 B (92)" to appear in numerical order.

"SM 5310 C (92)" means Method 5310 C, "Total Organic Carbon (TOC)", "Persulfate-Ultraviolet Oxidation Method", only the version in the supplement to the 19th edition. Referenced in Section 611.381.

"SM 5310 C (96)" means Method 5310 C, "Total Organic Carbon (TOC)", "Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method", only the version in the 20th edition. Referenced in Section 611.381.

"SM 5310 C (00)" means Method 5310 C, "Total Organic Carbon (TOC)", "Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method", only the version in the 21st and 22nd editions. Referenced in Section 611.381.

"SM 5310 C (14)" means Method 5310 C, "Total Organic Carbon (TOC)", "Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method", only the version in the 23rd edition. Referenced in Section 611.381.

Commented [SML60]: These need to appear before "SM 5310 C (92)" to appear in numerical order.

"SM 5310 D (92)" means Method 5310 D, "Total Organic Carbon (TOC)", "Wet-Oxidation Method", only the version in the supplement to the 19th edition. Referenced in Section 611.381.

"SM 5310 D (96)" means Method 5310 D, "Total Organic Carbon (TOC)", "Wet-Oxidation Method", only the version in the 20th edition. Referenced in Section 611.381.

"SM 5310 D (00)" means Method 5310 D, "Total Organic Carbon (TOC)", "Wet-Oxidation Method", only the version in the 21st and 22nd editions. Referenced in Section 611.381.

Commented [SML61]: This needs to appear before "SM 5310 D (92)" to appear in numerical order.

"SM 5910 B (94)" means Method 5910 B, "UV-Absorbing Organic Constituents", "Ultraviolet Absorption Method", only the version in the 19th and 20th editions. Referenced in Section 611.381.

Commented [SML62]: This needs to appear after "SM 5910 B (13)" to appear in numerical order.

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“SM 5910 B (00)” means Method 5910 B, “UV-Absorbing Organic Constituents”, “Ultraviolet Absorption Method”, only the version in the 21st edition. Referenced in Section 611.381.

“SM 5910 B (11)” means Method 5910 B, “UV-Absorbing Organic Constituents”, “Ultraviolet Absorption Method”, only the version in the 22nd edition. Referenced in Section 611.381.

“SM 5910 B (13)” means Method 5910 B, “UV-Absorbing Organic Constituents”, “Ultraviolet Absorption Method”, only the version in the 23rd edition. Referenced in Section 611.381.

“SM 6251 B (94)” means Method 6251 B, “Disinfection By-Products: Haloacetic Acids and Trichlorophenol”, “Micro Liquid-Liquid Extraction Gas Chromatographic Method”, only the version in the 19th, 20th, and 21st editions. Referenced in Section 611.381.

“SM 6251 B (07)” means Method 6251 B, “Disinfection By-Products: Haloacetic Acids and Trichlorophenol”, “Micro Liquid-Liquid Extraction Gas Chromatographic Method”, only the version in the 22nd and 23rd editions. Referenced in Section 611.381.

“SM 6610 (92)” means Method 6610, “Carbamate Pesticides (Proposed)”, only the version in the supplement to the 18th edition and the 19th edition. Referenced in Section 611.645.

“SM 6610 (96)” means Method 6610, “Carbamate Pesticides”, only the version in the 20th edition. Referenced in Section 611.645.

“SM 6610 B (99)” means Method 6610, “Carbamate Pesticides”, “High-Performance Liquid Chromatographic Method”, only the version in the 21st edition. Referenced in Section 611.645.

“SM 6610 B (04)” means Method 6610, “Carbamate Pesticides”, “High-Performance Liquid Chromatographic Method”, only the version in 22nd and 23rd editions. Referenced in Section 611.645.

“SM 6640 B (01)” means Method 6640 B, “Acidic Herbicide Compounds”, “Micro Liquid-Liquid Extraction Gas Chromatographic Method”, only the version in 21st edition. Referenced in Section 611.645.

Commented [SML63]: This needs to appear before “SM 6610 B (92)” to appear in numerical order.

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“SM 6640 B (06)” means Method 6640 B, “Acidic Herbicide Compounds”, “Micro Liquid-Liquid Extraction Gas Chromatographic Method”, only the version in 22nd and 23rd editions. Referenced in Section 611.645.

“SM 6651 B (91)” means Method 6651 B, “Glyphosate Herbicide (Proposed)”, “Liquid Chromatographic Post-Column Fluorescence Method”, only the version in 18th edition, or “Glyphosate Herbicide”, “Liquid Chromatographic Post-Column Fluorescence Method”, in 19th edition. Referenced in Section 611.645.

“SM 6651 B (96)” means Method 6651 B, “Glyphosate Herbicide”, “Liquid Chromatographic Post-Column Fluorescence Method”, only the version in 20th edition. Referenced in Section 611.645.

“SM 6651 B (00)” means Method 6651 B, “Glyphosate Herbicide”, “Liquid Chromatographic Post-Column Fluorescence Method”, only the version in 21st edition. Referenced in Section 611.645.

“SM 6651 B (05)” means Method 6651 B, “Glyphosate Herbicide”, “Liquid Chromatographic Post-Column Fluorescence Method”, only the version in 22nd and 23rd editions. Referenced in Section 611.645.

“SM 7110 B (85)” means Method 7110 B, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Counting Method”, only the version in 17th edition. Referenced in Section 611.720.

“SM 7110 B (91)” means Method 7110 B, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Evaporation Method for Gross Alpha-Beta”, only the version in 18th and 19th editions. Referenced in Section 611.720.

“SM 7110 B (96)” means Method 7110 B, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Evaporation Method for Gross Alpha-Beta”, only the version in 20th edition. Referenced in Section 611.720.

Commented [SML64]: These need to appear before “SM 6651 B (91)” to appear in numerical order.

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“SM 7110 B (00)” means Method 7110 B, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Evaporation Method for Gross Alpha-Beta”, only the version in 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

Commented [SML65]: This needs to appear before “SM 7110 B (85)” to appear in numerical order.

“SM 7110 C (91)” means Method 7110 C, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water (Proposed)”, only the version in 18th and 19th editions. Referenced in Section 611.720.

“SM 7110 C (96)” means Method 7110 C, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water”, only the version in 20th edition. Referenced in Section 611.720.

“SM 7110 C (00)” means Method 7110 C, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Coprecipitation Method for Gross Alpha Radioactivity in Drinking Water”, only the version in 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

Commented [SML66]: This needs to appear before “SM 7110 C (91)” to appear in numerical order.

“SM 7110 D (17)” means Method 7110 D, “Gross Alpha and Beta Radioactivity (Total, Suspended, and Dissolved)”, “Liquid Scintillation Spectroscopic Method for Gross Alpha-Beta Radioactivity in Drinking Water”, only the version from Standard Methods Online as Method 7110 D-17. Referenced in Section 611.720.

“SM 7120 (94)” means Method 7120, “Gamma-Emitting Radionuclides”, only the version in the 19th edition. Referenced in Section 611.720.

“SM 7120 (97)” means Method 7120, “Gamma-Emitting Radionuclides”, only the version in the 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-Cs B (88)” means Method 7500-Cs B, “Radioactive Cesium”, “Precipitation Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

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“SM 7500-Cs B (93)” means Method 7500-Cs B, “Radioactive Cesium”, “Precipitation Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-Cs B (00)” means Method 7500-Cs B, “Radioactive Cesium”, “Precipitation Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-I B (88)” means Method 7500-I B, “Radioactive Iodine”, “Precipitation Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

“SM 7500-I B (93)” means Method 7500-I B, “Radioactive Iodine”, “Precipitation Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-I B (00)” means Method 7500-I B, “Radioactive Iodine”, “Precipitation Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-I C (88)” means Method 7500-I C, “Radioactive Iodine”, “Ion-Exchange Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

“SM 7500-I C (93)” means Method 7500-I C, “Radioactive Iodine”, “Ion-Exchange Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-I C (00)” means Method 7500-I C, “Radioactive Iodine”, “Ion-Exchange Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-I D (88)” means Method 7500-I D, “Radioactive Iodine”, “Distillation Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

“SM 7500-I D (93)” means Method 7500-I D, “Radioactive Iodine”, “Distillation Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-I D (00)” means Method 7500-I D, “Radioactive Iodine”, “Distillation Method”, only the version in the 21st, 22nd,

Commented [SML67]: This needs to appear before “SM 7500-Cs B (88)” to appear in numerical order.

Commented [SML68]: This needs to appear before “SM 7500-I B (88)” to appear in numerical order.

Commented [SML69]: This needs to appear before “SM 7500-I C (88)” to appear in numerical order.

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and 23rd editions. Referenced in Section 611.720.

“SM 7500-Ra B (88)” means Method 7500-Ra B, “Radium”, “Precipitation Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

“SM 7500-Ra B (93)” means Method 7500-Ra B, “Radium”, “Precipitation Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-Ra B (01)” means Method 7500-Ra B, “Radium”, “Precipitation Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-Ra C (88)” means Method 7500-Ra C, “Radium”, “Emanation Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

“SM 7500-Ra C (93)” means Method 7500-Ra C, “Radium”, “Emanation Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-Ra C (01)” means Method 7500-Ra C, “Radium”, “Emanation Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-Ra D (88)” means Method 7500-Ra D, “Radium”, “Sequential Precipitation Method”, only the version in the 17th and 18th editions. Referenced in Section 611.720.

“SM 7500-Ra D (93)” means Method 7500-Ra D, “Radium”, “Sequential Precipitation Method”, only the version in the 19th and 20th editions. Referenced in Section 611.720.

“SM 7500-Ra D (01)” means Method 7500-Ra D, “Radium”, “Sequential Precipitation Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

“SM 7500-Ra E (01)” means Method 7500-Ra E, “Radium”, “Gamma Spectrometry Method”, only the version in the 22nd edition. Referenced in Section 611.720.

Commented [SML70]: This needs to appear before “SM 7500-I D (88)” to appear in numerical order.

Commented [SML71]: This needs to appear before “SM 7500-Ra B (88)” to appear in numerical order.

Commented [SML72]: This needs to appear before “SM 7500-Ra C (88)” to appear in numerical order.

Commented [SML73]: This needs to appear before “SM 7500-Ra D (88)” to appear in numerical order.

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"SM 7500-Ra E (07)" means Method 7500-Ra E, "Radium", "Gamma Spectrometry Method", only the version in the 23rd edition. Referenced in Section 611.720.

"SM 7500-Sr B (88)" means Method 7500-Sr B, "Total Radioactive Strontium and Strontium 90", "Precipitation Method", only the version in the 17th and 18th editions. Referenced in Section 611.720.

"SM 7500-Sr B (93)" means Method 7500-Sr B, "Total Radioactive Strontium and Strontium 90", "Precipitation Method", only the version in the 19th and 20th editions. Referenced in Section 611.720.

"SM 7500-Sr B (01)" means Method 7500-Sr B, "Total Radioactive Strontium and Strontium 90", "Precipitation Method", only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

Commented [SML74]: This needs to appear before "SM 7500-Sr B (88)" to appear in numerical order.

"SM 7500-³H B (88)" means Method 7500-³H B, "Tritium", "Liquid Scintillation Spectrometric Method", only the version in the 17th and 18th editions. Referenced in Section 611.720.

"SM 7500-³H B (93)" means Method 7500-³H B, "Tritium", "Liquid Scintillation Spectrometric Method", only the version in the 19th and 20th editions. Referenced in Section 611.720.

"SM 7500-³H B (00)" means Method 7500-³H B, "Tritium", "Liquid Scintillation Spectrometric Method", only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

Commented [SML75]: This needs to appear before "SM 7500-³H B (88)" to appear in numerical order.

"SM 7500-U B (88)" means Method 7500-U B, "Uranium", "Radiochemical Method (Proposed)", only the version in the 17th edition. Referenced in Section 611.720.

"SM 7500-U B (91)" means only Method 7500-U B, "Uranium", "Radiochemical Method (Proposed)", the version in the 18th edition, and "Uranium", "Radiochemical Method", the version in the 19th edition. Referenced in Section 611.720.

"SM 7500-U B (96)" means Method 7500-U B, "Uranium", "Radiochemical Method", only the version in the 20th edition.

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Referenced in Section 611.720.

“SM 7500-U B (00)” means Method 7500-U B, “Uranium”, “Radiochemical Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

Commented [SML76]: This needs to appear before “SM 7500-U B (88)” to appear in numerical order.

“SM 7500-U C (88)” means Method 7500-U C, “Uranium”, “Fluorometric Method (Proposed)”, only the version in the 17th edition. Referenced in Section 611.720.

“SM 7500-U C (91)” means Method 7500-U C, “Uranium”, “Isotopic Method (Proposed)”, only the version in the 18th and 19th editions. Referenced in Section 611.720.

“SM 7500-U C (96)” means Method 7500-U C, “Uranium”, “Isotopic Method”, only the version in the 20th edition. Referenced in Section 611.720.

“SM 7500-U C (00)” means Method 7500-U C, “Uranium”, “Isotopic Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.

Commented [SML77]: This needs to appear before “SM 7500-U C (88)” to appear in numerical order.

“SM 9060 A (97)” means Method 9060 A, “Samples”, “Collection”, only the version in the 20th and 21st editions. Referenced in Section 611.1052.

“SM 9215 B (88)” means Method 9215 B, “Heterotrophic Plate Count”, “Pour Plate Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9215 B (94)” means Method 9215 B, “Heterotrophic Plate Count”, “Pour Plate Method”, only the version in the 19th and 20th editions. Referenced in Section 611.531.

“SM 9215 B (00)” means Method 9215 B, “Heterotrophic Plate Count”, “Pour Plate Method”, only the version in the 21st edition. Referenced in Section 611.531.

“SM 9215 B (04)” means Method 9215 B, “Heterotrophic Plate Count”, “Pour Plate Method”, only the version in the 22nd edition. Referenced in Section 611.531.

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"SM 9215 B (16)" means Method 9215 B, "Heterotrophic Plate Count", "Pour Plate Method", only the version in the 23rd edition. Referenced in Section 611.531.

Commented [SML78]: These need to appear before "SM 9215 B (88)" to appear in numerical order.

"SM 9221 A (93)" means Method 9221 A, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Introduction", only the version in the 18th edition. Referenced in Section 611.531.

"SM 9221 A (94)" means Method 9221 A, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Introduction", only the version in the 19th and 20th editions. Referenced in Section 611.531.

"SM 9221 A (99)" means Method 9221 A, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Introduction", only the version in the 21st edition. Referenced in Section 611.531.

"SM 9221 A (06)" means Method 9221 A, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Introduction", only the version in the 22nd edition. Referenced in Section 611.531.

"SM 9221 A (14)" means Method 9221 A, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Introduction", only the version in the 23rd edition. Referenced in Section 611.531.

Commented [SML79]: These need to appear before "SM 9221 A (93)" to appear in numerical order.

"SM 9221 B (93)" means Method 9221 B, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Standard Total Coliform Fermentation Technique", only the version in the 18th edition. Referenced in Section 611.531.

"SM 9221 B (94)" means Method 9221 B, "Multiple-Tube Fermentation Technique for Members of the Coliform Group", "Standard Total Coliform Fermentation Technique", only the version in the 19th and 20th editions. Referenced in Sections 611.531 and 611.1052.

"SM 9221 B (99)" means Method 9221 B, "Multiple-Tube

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Fermentation Technique for Members of the Coliform Group”, “Standard Total Coliform Fermentation Technique”, only the version in the 21st edition. Referenced in Sections 611.531 and 611.1052.

“SM 9221 B (06)” means Method 9221 B, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Standard Total Coliform Fermentation Technique”, only the version in the 22nd edition. Referenced in Sections 611.531 and 611.1052.

“SM 9221 B (14)” means Method 9221 B, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Standard Total Coliform Fermentation Technique”, only the version in the 23rd edition. Referenced in Sections 611.531 and 611.1052.

“SM 9221 C (93)” means Method 9221 C, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Estimation of Bacterial Density”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9221 C (94)” means Method 9221 C, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Estimation of Bacterial Density”, only the version in the 19th and 20th editions. Referenced in Section 611.531.

“SM 9221 C (99)” means Method 9221 C, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Estimation of Bacterial Density”, only the version in the 21st edition. Referenced in Section 611.531.

“SM 9221 C (06)” means Method 9221 C, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Estimation of Bacterial Density”, only the version in the 22nd edition. Referenced in Section 611.531.

“SM 9221 C (14)” means Method 9221 C, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Estimation of Bacterial Density”, only the version in the 23rd edition. Referenced in Section 611.531.

Commented [SML80]: These need to appear before “SM 9221 B (93)” to appear in numerical order.

Commented [SML81]: These need to appear before “SM 9221 C (93)” to appear in numerical order.

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“SM 9221 D (94)” means Method 9221 D, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Presence-Absence (P-A) Coliform”, only the version in the 20th edition. Referenced in Section 611.1052.

“SM 9221 D (99)” means Method 9221 D, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Presence-Absence (P-A) Coliform”, only the version in the 21st edition. Referenced in Section 611.1052.

“SM 9221 D (14)” means Method 9221 D, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Presence-Absence (P-A) Coliform”, only the version in the 23rd edition. Referenced in Section 611.1052.

Commented [SML82]: This needs to appear before “SM 9221 D (14)” to appear in numerical order.

“SM 9221 E (93)” means Method 9221 E, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Fecal Coliform Procedure”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9221 E (94)” means Method 9221 E, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Fecal Coliform Procedure”, only the version in the 19th and 20th editions. Referenced in Section 611.531.

“SM 9221 E (99)” means Method 9221 E, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Fecal Coliform Procedure”, only the version in the 21st edition. Referenced in Section 611.531.

“SM 9221 E (06)” means Method 9221 E, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Fecal Coliform Procedure”, only the version in the 22nd edition. Referenced in Section 611.531.

“SM 9221 E (14)” means Method 9221 E, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Thermotolerant (Fecal) Coliform Procedure”, only the version in the 23rd edition. Referenced in Section 611.531.

Commented [SML83]: These need to appear before “SM 9221 E (93)” to appear in numerical order.

“SM 9221 F (94)” means Method 9221 F, “Multiple-Tube

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Fermentation Technique for Members of the Coliform Group”, “Escherichia Coli Procedure (Proposed)”, only the version in the 20th edition. Referenced in Sections 611.802 and 611.1052.

“SM 9221 F (06)” means Method 9221 F, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Escherichia Coli Procedure Using Fluorogenic Substrate”, only the version in the 22nd edition. Referenced in Sections 611.802 and 611.1052.

“SM 9221 F (14)” means Method 9221 F, “Multiple-Tube Fermentation Technique for Members of the Coliform Group”, “Escherichia Coli Procedure Using Fluorogenic Substrate”, only the version in the 23rd edition. Referenced in Sections 611.802 and 611.1052.

“SM 9222 A (91)” means Method 9222 A, “Membrane Filter Technique for Members of the Coliform Group”, “Introduction”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9222 A (94)” means Method 9222 A, “Membrane Filter Technique for Members of the Coliform Group”, “Introduction”, only the version in the 19th edition. Referenced in Section 611.531.

“SM 9222 A (97)” means Method 9222 A, “Membrane Filter Technique for Members of the Coliform Group”, “Introduction”, only the version in the 20th and 21st editions. Referenced in Section 611.531.

“SM 9222 A (06)” means Method 9222 A, “Membrane Filter Technique for Members of the Coliform Group”, “Introduction”, only the version in the 22nd edition. Referenced in Section 611.531.

“SM 9222 A (15)” means Method 9222 A, “Membrane Filter Technique for Members of the Coliform Group”, “Introduction”, only the version in the 23rd edition. Referenced in Section 611.531.

Commented [SML84]: These need to appear before “SM 9221 F (06)” to appear in numerical order.

Commented [SML85]: These need to appear before “SM 9222 A (91)” to appear in numerical order.

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“SM 9222 B (91)” means Method 9222 B, “Membrane Filter Technique for Members of the Coliform Group”, “Standard Total Coliform Membrane Filter Procedure”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9222 B (94)” means Method 9222 B, “Membrane Filter Technique for Members of the Coliform Group”, “Standard Total Coliform Membrane Filter Procedure”, only the version in the 19th edition. Referenced in Section 611.531.

“SM 9222 B (97)” means Method 9222 B, “Membrane Filter Technique for Members of the Coliform Group”, “Standard Total Coliform Membrane Filter Procedure”, only the version in the 20th and 21st editions. Referenced in Sections 611.531 and 611.1052.

“SM 9222 B (15)” means Method 9222 B, “Membrane Filter Technique for Members of the Coliform Group”, “Standard Total Coliform Membrane Filter Procedure using Endo Media”, only the version in the 23rd edition. Referenced in Sections 611.531 and 611.1052.

Commented [SML86]: This needs to appear before “SM 9222 B (91)” to appear in numerical order.

“SM 9222 C (91)” means Method 9222 C, “Membrane Filter Technique for Members of the Coliform Group”, “Delayed-Incubation Total Coliform Procedure”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9222 C (94)” means Method 9222 C, “Membrane Filter Technique for Members of the Coliform Group”, “Delayed-Incubation Total Coliform Procedure”, only the version in the 19th edition. Referenced in Section 611.531.

“SM 9222 C (97)” means Method 9222 C, “Membrane Filter Technique for Members of the Coliform Group”, “Delayed-Incubation Total Coliform Procedure”, only the version in the 20th and 21st editions. Referenced in Sections 611.531 and 611.1052.

“SM 9222 C (15)” means Method 9222 C, “Membrane Filter Technique for Members of the Coliform Group”, “Delayed-Incubation Total Coliform Procedure”, only the version in the 23rd edition. Referenced in Sections 611.531 and 611.1052.

Commented [SML87]: This needs to appear before “SM 9222 C (91)” to appear in numerical order.

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“SM 9222 D (91)” means Method 9222 D, “Membrane Filter Technique for Members of the Coliform Group”, “Fecal Coliform Membrane Filter Procedure”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 9222 D (94)” means Method 9222 D, “Membrane Filter Technique for Members of the Coliform Group”, “Fecal Coliform Membrane Filter Procedure”, only the version in the 19th edition. Referenced in Section 611.531.

“SM 9222 D (97)” means Method 9222 D, “Membrane Filter Technique for Members of the Coliform Group”, “Fecal Coliform Membrane Filter Procedure”, only the version in the 20th and 21st editions. Referenced in Sections 611.531 and 611.1004.

“SM 9222 D (06)” means Method 9222 D, “Membrane Filter Technique for Members of the Coliform Group”, “Thermotolerant (Fecal) Coliform Membrane Filter Procedure”, only the version in the 22nd edition. Referenced in Section 611.531.

“SM 9222 D (15)” means Method 9222 D, “Membrane Filter Technique for Members of the Coliform Group”, “Thermotolerant (Fecal) Coliform Membrane Filter Procedure”, only the version in the 23rd edition. Referenced in Section 611.531.

“SM 9222 G (97)” means Method 9222 G, “Membrane Filter Technique for Members of the Coliform Group”, “MF Partition Procedure”, only the version in the 20th and 21st editions. Referenced in Sections 611.802, 611.1004, and 611.1052.

“SM 9222 H (15)” means Method 9222 H, “Membrane Filter Technique for Members of the Coliform Group”, “Partitioning E. coli from MF Total Coliform and E. coli using EC-MUG Broth”, only the version in the 23rd edition. Referenced in Section 611.1052.

“SM 9222 I (15)” means Method 9222 I, “Membrane Filter Technique for Members of the Coliform Group”, “Partitioning E. coli from MF Total Coliform and E. coli using NA-MUG Agar”, only the version in the 23rd edition. Referenced in Sections 611.802 and 611.1052.

Commented [SML88]: These need to appear before “SM 9222 D (91)” to appear in numerical order.

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“SM 9222 J (15)” means Method 9222 J, “Membrane Filter Technique for Members of the Coliform Group”, “Simultaneous Detection of Total Coliform and E. coli by Dual-Chromogen Membrane Filter Procedure”, only the version in the 23rd edition. Referenced in Sections 611.802 and 611.1052.

“SM 9223 (92)” means Method 9223, “Chromogenic Substrate Coliform Test (Proposed)” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 18th edition. Referenced in Section 611.531.

“SM 9223 (94)” means Method 9223, “Chromogenic Substrate Coliform” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 19th edition. Referenced in Section 611.531.

“SM 9223 (97)” means Method 9223, “Enzyme Substrate Coliform” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 20th and 21st editions. Referenced in Sections 611.531.

“SM 9223 B (92)” means Method 9223 B, “Chromogenic Substrate Coliform Test (Proposed)”, “Chromogenic Substrate” (also referred to as the variations “Colilert[®]”, “Colisure[™]”, and “Colilert-18[®]” depending on the medium used), only the version in the 18th edition. Referenced in Section 611.1004.

“SM 9223 B (94)” means Method 9223 B, “Chromogenic Substrate Coliform”, “Chromogenic Substrate” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 19th edition. Referenced in Section 611.1004.

“SM 9223 B (97)” means Method 9223 B, “Enzyme Substrate Coliform”, “Chromogenic Substrate” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 20th and 21st editions. Referenced in Sections 611.802 and 611.1004.

“SM 9223 B (04)” means Method 9223 B, “Enzyme Substrate

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Coliform”, “Enzyme Substrate” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 22nd edition. Referenced in Sections 611.531, 611.802, and 611.1004.

“SM 9223 B (16)” means Method 9223 B, “Enzyme Substrate Coliform”, “Enzyme Substrate” (also referred to as the variations “Colilert[®]” and “Colisure[™]” depending on the medium used), only the version in the 23rd edition. Referenced in Sections 611.531, 611.802, and 611.1052.

“SM 9230 B (93)” means Method 9230 B, “Fecal Streptococcus and Enterococcus Groups”, “Multiple-Tube Techniques”, only the version in the 20th and 21st editions. Referenced in Section 611.802.

“SM 9230 B (04)” means Method 9230 B, “Fecal Streptococcus and Enterococcus Groups”, “Multiple-Tube Techniques”, only the version from Standard Methods Online as Method 9230 B-04. Referenced in Section 611.802.

“SM 9230 C (93)” means Method 9230 C, “Fecal Streptococcus and Enterococcus Groups”, “Membrane Filter Techniques”, only the version in the 20th edition. Referenced in Section 611.802.

“SM 9230 C (13)” means Method 9230 C, “Fecal Enterococcus/Streptococcus Groups”, “Membrane Filter Techniques”, only the version in the 23rd edition. Referenced in Section 611.802.

“SM 9230 D (13)” means Method 9230 D, “Fecal Enterococcus/Streptococcus Groups”, “Fluorogenic Substrate Enterococcus”, only the version in the 23rd edition. Referenced in Section 611.802.

BOARD NOTE: The publication dates of the several editions of “Standard Methods for the Examination of Water and Wastewater” that contain approved methods are as follows:

13th edition, 1971
17th edition, 1989

Commented [SML89]: These need to appear before “SM 9223 B (92)” to appear in numerical order.

Commented [SML90]: This needs to appear before “SM 9223 B (93)” to appear in numerical order.

Commented [SML91]: This needs to appear before “SM 9223 C (93)” to appear in numerical order.

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18th edition, 1992
Supplement to 18th edition, 1994
19th edition, 1995
Supplement to 19th edition, 1996
20th edition, 1998
21st edition, 2005
22nd edition, 2012
23rd edition, 2017

“Syngenta AG-625 (01)” means “Method AG-625: Atrazine in Drinking Water by Immunoassay” (February 2001), Syngenta Crop Protection, Inc. Available from publisher, 410 Swing Road, Post Office Box 18300, Greensboro, NC 27419 (336-632-6000). Referenced in Section 611.645.

“Systea Easy (1-Reagent) (09)” means “Nitrate by Discrete Analysis: Systea Easy (1-Reagent) Nitrate Method (Colorimetric, Automated, 1 Reagent)” (February 4, 2009). Available from Systea Scientific LLC, 900 Jorie Blvd., Suite 35, Oak Brook, IL 60523 (630-645-0600); NEMI; and USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”). Referenced in Section 611.611.

Technicon Methods. Available from Bran + Luebbe, 1025 Busch Parkway, Buffalo Grove, IL 60089.

“Technicon #129-71W (72)” means “Fluoride in Water and Wastewater” (December 1972), Industrial Method #129-71W. Referenced in Section 611.611. See 40 CFR 141.23(k)(1), footnote 11.

“Technicon #380-75WE (76)” means “Fluoride in Water and Wastewater” (February 1976), #380-75WE. See 40 CFR 141.23(k)(1), footnote 11, referenced in Section 611.611.

Tecta Methods. Available from Pathogen Detection Systems, Inc., 382 King Street, Kingston, Ontario, Canada K7K 2Y2 (844-215-7122 or www.tecta-pds.ca) and USEPA, OGWDW (under “Ground Water Rule (PDF)” and “Revised Total Coliforms Rules (PDF)”).

“Tecta (14)” means “TECTA™ EC/TC medium and the TECTA™ Instrument: a Presence/Absence Method for Simultaneous Detection of Total Coliforms and Escherichia coli (E.coli) in

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Drinking Water”, Version 1.0 (May 22, 2014). Referenced in Sections 611.802 and 611.1052.

“Tecta (17)” means “TECTA™ EC/TC medium and the TECTA™ Instrument: a Presence/Absence Method for Simultaneous Detection of Total Coliforms and Escherichia coli (E.coli) in Drinking Water”, Version 2.0 (March 20, 2017). Referenced in Sections 611.802 and 611.1052.

“Thermo-Fisher 557.1 (17)” means “Thermofisher Method 557.1: Determination of Haloacetic Acids in Drinking Water using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection”, Version 1.0 (January 2017). Available from Thermo-Fisher Scientific, 490 Lakewside Dr, Sunnyvale, CA 94085 (800-556-2323; www.thermofisher.com) and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”). Referenced in Section 611.611.

“Thermo-Fisher Discrete Analyzer (16)” means “Application Note: Drinking Water Orthophosphate Method for Thermo Scientific Gallery Discrete Analyzer”, Revision 5 (February 18, 2016). Available from Thermo-Fisher Scientific, Ratastie 2, 01620 Vantaa, Finland and USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”). Referenced in Section 611.611.

USEPA Methods

Numbered Methods

“USEPA H-02 (84)” means Method H-02, “Radiochemical Determination of Tritium in Water—Dioxane Method”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720.

BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA Ra-03 (84)” means Method Ra-03, “Radiochemical Determination of Radium-226 in Water Samples”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720.
BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

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“USEPA Ra-04 (84)” means Method Ra-04, “Radiochemical Determination of Radium-226—Deemanation Procedure”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720. BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA Ra-05 (84)” means Method Ra-05, “Radiochemical Determination of Radium-228 in Water Samples”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720. BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA Sr-04 (84)” means Method Sr-04, “Radiochemical Determination of Radiostrontium in Water, Sea Water and Other Aqueous Media”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720. BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 00-01 (84)” means Method 00-01, “Radiochemical Determination of Gross Alpha and Gross Beta Activity in Water”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720. BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 00-02 (84)” means Method 00-02, “Radiochemical Determination of Gross Alpha Activity in Drinking Water by Coprecipitation”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720. BOARD NOTE: Also available from USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 00-07 (84)” means Method 00-07, “Radiochemical Determination of Thorium and Uranium in Water”, in USEPA Radiochemistry Procedures (84). Referenced in Section 611.720.

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BOARD NOTE: Also available from USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA 100.1 (83)" means "Method 100.1: Analytical Method for Determination of Asbestos in Water" (September 1983), USEPA, Environmental Research Laboratory, document number EPA 600/4-83-043. Available from NEMI; NTRL (document number PB83-260471) and USEPA, NSCEP (search for "600483043"). Referenced in Section 611.611.

"USEPA 100.2 (94)" means "Method 100.2: Determination of Asbestos Structures over 10-mm in Length in Drinking Water" (June 1994), USEPA, Environmental Monitoring Systems Laboratory, document number EPA 600/R-94-134. Available from NEMI; NTRL (document number PB94-201902); USEPA, NSCEP (search for "600R94134"); and USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)"). Referenced in Section 611.611.

"USEPA 150.1 (71)" means "pH: Method 150.1 (Electrometric)" (1971), in USEPA Inorganic Methods (83). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

"USEPA 150.2 (82)" means "pH, Continuous Monitoring (Electrometric)—Method 150.2" (December 1982), in USEPA Inorganic Methods (83). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

"USEPA 150.3 (17)" means "Method 150.3: Determination of pH in Drinking Water", Version 1.0 (February 2017), USEPA, Office of Ground Water and Drinking Water, document number EPA 815/B-17/001. Available from USEPA, NSCEP (search for "815B17001") and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)" and "Inorganic Contaminants and Other Inorganic Constituents (PDF)"). Referenced in Section 611.611.

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“USEPA 180.1 (93)” means “Method 180.1: Determination of Turbidity by Nephelometry”, Revision 2.0 (August 1993), in USEPA Environmental Inorganic Methods (93). Referenced in Section 611.531.
BOARD NOTE: Also individually available from NEMI.

“USEPA 200.5 (03)” means “Method 200.5: Determination of Trace Elements in Drinking Water by Axially Viewed Inductively Coupled Plasma-Atomic Emission Spectrometry”, Revision 4.2 (October 2003), USEPA, National Exposure Research Laboratory, document number EPA 600/R-06/115. Available from NEMI; USEPA, NSCEP (search for “600R06115”); and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF),” “Inorganic Contaminants and Other Inorganic Constituents (PDF),” and “Secondary Contaminants (PDF)”). Referenced in Sections 611.611 and 611.612.

“USEPA 200.7 (94)” means “Method 200.7: Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry”, Revision 4.4 (May 1994), in USEPA Environmental Metals Methods (94). Referenced in Sections 611.600, 611.611, and 611.612.
BOARD NOTE: Also individually available from NEMI.

“USEPA 200.8 (94)” means “Method 200.8: Determination of Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry”, Revision 5.3 (May 1994), in USEPA Environmental Metals Methods (94). Referenced in Sections 611.600, 611.611, 611.612, and 611.720.
BOARD NOTE: Also individually available from NEMI.

“USEPA 200.9 (94)” means “Method 200.9: Determination of Metals and Trace Elements in Water by Ultrasonic Nebulization Inductively Coupled Plasma-Atomic Emission Spectrometry”, Revision 2.2 (May 1994), in USEPA Environmental Metals Methods (94). Referenced in Sections 611.600, 611.611, and 611.612.
BOARD NOTE: Also individually available from NEMI.

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“USEPA 245.1 (91)” means “Method 245.1: Determination of Mercury in Water by Cold Vapor Atomic Absorption Spectrometry”, Revision 2.3 (April 1991), in USEPA Environmental Metals Methods (94). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

“USEPA 245.2 (74)” means “Mercury: Method 245.2 (Automated Cold Vapor Technique)” (1974), in USEPA Inorganic Methods (83). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

“USEPA 300.0 (93)” means “Method 300.0: Determination of Inorganic Anions by Ion Chromatography”, Revision 2.1 (August 1993), in USEPA Environmental Inorganic Methods (93). Referenced in Sections 611.381 and 611.611.

BOARD NOTE: Also individually available from NEMI.

“USEPA 300.1 (97)” means “Method 300.1: Determination of Inorganic Anions in Drinking Water by Ion Chromatography”, Revision 1.0 (September 1997), in USEPA Organic and Inorganic Methods (00). Referenced in Sections 611.381 and 611.611.

BOARD NOTE: Also individually available from NEMI.

“USEPA 302.0 (09)” means “Method 302.0: Determination of Bromate in Drinking Water Using Two-Dimensional Ion Chromatography with Suppressed Conductivity Detection” (September 2009), USEPA, Office of Water, document number EPA 815/B-09/014. Available from NEMI; USEPA, NSCEP (search “815B09014”); and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”). Referenced in Sections 611.381 and 611.382.

“USEPA 317.0 (01)” means “Method 317.0: Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography with the Addition of a Postcolumn Reagent for Trace Bromate Analysis”, Revision 2.0 (July 2001), USEPA, Office of Ground Water and Drinking Water, Technical

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Support Center, document number EPA 815/B-01/001. Available from NEMI; USEPA, NSCEP (search "815B01001"); and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)"). Referenced in Sections 611.381 and 611.382.

"USEPA 321.8 (97)" means "Method 321.8: Determination of Bromate in Drinking Waters by Ion Chromatography Inductively Coupled Plasma/Mass Spectrometry", Revision 1.0 (December 1997), in USEPA Organic and Inorganic Methods (00). Referenced in Sections 611.381 and 611.382.

BOARD NOTE: Also individually available from NEMI.

"USEPA 326.0 (02)" means "Method 326.0: Determination of Inorganic Oxyhalide Disinfection By-Products in Drinking Water Using Ion Chromatography Incorporating the Addition of a Suppressor Acidified Postcolumn Reagent for Trace Bromate Analysis", Revision 1.0 (June 2002), USEPA, Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/R-03/007. Available from NEMI; NTRL (document number PB2003-107402); USEPA, NSCEP (search "815R03007"); and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)"). Referenced in Sections 611.381 and 611.382.

"USEPA 327.0 (05)" means "Method 327.0: Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water Using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrophotometry", Revision 1.1 (May 2005), USEPA, Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/R-05/008. Available from NEMI; USEPA, NSCEP (search "815R05008"); and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)"). Referenced in Sections 611.381 and 611.531.

"USEPA 334.0 (09)" means "Method 334.0: Determination of Residual in Drinking Water Using an On-line Chlorine Analyzer", Version 1.0 (September 2009),

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USEPA, Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/B-09/013. Available from NEMI; USEPA, NSCEP (search "815B09013"); and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)"). Referenced in Sections 611.381 and 611.531.

"USEPA 335.4 (93)" means "Method 335.4: Determination of Total Cyanide by Semi-Automated Colorimetry", Revision 1.0 (August 1993), in USEPA Environmental Inorganic Methods (93). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

"USEPA 353.2 (93)" means "Method 353.2: Determination of Inorganic Anions by Ion Chromatography", Revision 2.0 (August 1993), in USEPA Environmental Inorganic Methods (93). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

"USEPA 365.1 (93)" means "Method 365.1: Determination of Phosphorus by Automated Colorimetry", Revision 2.0 (August 1993), in USEPA Environmental Inorganic Methods (93). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic Constituents (PDF)").

"USEPA 415.3 (05)" means "Method 415.3: Determination of Total Organic Carbon and Specific UV Absorbance at 254 nm in Source Water and Drinking Water", Revision 1.1 (February 2005), USEPA, National Exposure Research Laboratory, document number EPA 600/R05-055. Available from USEPA, NSCEP (search "600R05055") and USEPA, OGWDW (under "Disinfection Byproduct Rules (PDF)"). Referenced in Section 611.381.

"USEPA 415.3 (09)" means "Method 415.3, "Determination of Total Organic Carbon and Specific UV

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Absorbance at 254 nm in Source Water and Drinking Water”, Revision 1.2 (September 2009), USEPA, National Exposure Research Laboratory, document number EPA 600/R09-122. Referenced in Section 611.381. Available from NEMI; USEPA, NSCEP (search “600R09122”); and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”).

“USEPA 502.2 (95)” means “Method 502.2: Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series”, Revision 2.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Sections 611.381 and 611.645.
BOARD NOTE: Also individually available from NEMI.

“USEPA 504.1 (95)” means “Method 504.1: 1,2-Dibromomethane (EDB), 1,2-Dibromo-3-Chloropropane (DBCP), and 1,2,3-Trichloropropane (123TCP) in Water by Microextraction and Gas Chromatography”, Revision 1.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Section 611.645.
BOARD NOTE: Also individually available from NEMI.

“USEPA 505 (95)” means “Method 505: Analysis of Organohalide Pesticides and Commercial Polychlorinated Biphenyl (PCB) Products in Water by Microextraction and Gas Chromatography”, Revision 2.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Sections 611.645 and 611.648.
BOARD NOTE: Also individually available from NEMI.

“USEPA 506 (95)” means “Method 506: Determination of Phthalate and Adipate Esters in Drinking Water by Liquid-Liquid Extraction or Liquid-Solid Extraction and Gas Chromatography with Photoionization Detection”, Revision 1.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Section 611.645.
BOARD NOTE: Also individually available from NEMI.

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“USEPA 507 (95)” means “Method 507: Determination of Nitrogen- and Phosphorus-Containing Pesticides in Water by Gas Chromatography with a Nitrogen-Phosphorus Detector”, Revision 2.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Sections 611.645 and 611.648.

BOARD NOTE: Also individually available from NEMI.

“USEPA 508 (95)” means “Method 508: Determination of Chlorinated Pesticides in Water by Gas Chromatography with an Electron Capture Detector”, Revision 3.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Sections 611.645 and 611.648.

BOARD NOTE: Also individually available from NEMI.

“USEPA 508A (89)” means “Method 508A: Screening for Polychlorinated Biphenyls by Perchlorination and Gas Chromatography”, Revision 1.0 (1989), in USEPA Organic Methods (91). Referenced in Sections 611.645 and 611.646.

BOARD NOTE: Also individually available from NEMI.

“USEPA 508.1 (95)” means “Method 508.1: Determination of Chlorinated Pesticides, Herbicides, and Organohalides by Liquid-Solid Extraction and Electron Capture Gas Chromatography”, Revision 2.0 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Sections 611.645 and 611.648.

BOARD NOTE: Also individually available from NEMI.

“USEPA 515.1 (89)” means “Method 515.1: Determination of Chlorinated Acids in Drinking Water by Gas Chromatography with an Electron Capture Detector”, Revision 4.1 (1989), in USEPA Organic Methods (91). Referenced in Section 611.645.

“USEPA 515.2 (95)” means “Method 515.2: Determination of Chlorinated Acids in Water Using Liquid-Solid Extraction and Gas Chromatography with an Electron Capture Detector”, Revision 1.1 (1995), in

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USEPA Organic Methods—Supplement III (95).
Referenced in Section 611.645.
BOARD NOTE: Also individually available from NEMI.

“USEPA 515.3 (96)” means “Method 515.3:
Determination of Chlorinated Acids in Drinking Water by
Liquid-Liquid Extraction, Derivatization and Gas
Chromatography with Electron Capture Detection”,
Revision 1.0 (July 1996), in USEPA Organic and Inorganic
Methods (00). Referenced in Section 611.645.
BOARD NOTE: Also individually available from NEMI.

“USEPA 515.4 (00)” means “Method 515.4:
“Determination of Chlorinated Acids in Drinking Water by
Liquid-Liquid Microextraction, Derivatization and Fast Gas
Chromatography with Electron Capture Detection”
Revision 1.0 (April 2000), USEPA, Office of Ground
Water and Drinking Water, Technical Support Center,
document number EPA 815/B-00/001. Available from
NEMI; USEPA, NSCEP (search “815B00001”); and
USEPA, OGWDW (under “Organic Contaminants
(PDF)”). Referenced in Section 611.645.

“USEPA 523 (11)” means “Method 523: Determination of
Triazine Pesticides and Other Degradates in Drinking
Water by Gas Chromatography/Mass Spectrometry
(GC/MS)”, Version 1.0 (February 2011), USEPA, Office of
Ground Water and Drinking Water, Standards and Risk
Management Division, Technical Support Center,
document number EPA 815/R-11-002. Available from
USEPA, NSCEP (search “815R11002”); and USEPA,
OGWDW (under “Organic Contaminants (PDF)”).
referenced in Section 611.645.

“USEPA 524.2 (95)” means “Method 524.2: Measurement
of Purgeable Organic Compounds in Water by Capillary
Column Gas Chromatography/Mass Spectrometry”,
Revision 4.1 (1995), in USEPA Organic Methods—
Supplement III (95). Referenced in Section 611.645.
BOARD NOTE: Also individually available from NEMI.

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“USEPA 524.3 (09)” means “Method 524.3: Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Spectrometry”, Revision 1.0 (June 2009), USEPA, Office of Ground Water and Drinking Water, Standards and Risk Management Division, Technical Support Center, document number EPA 815/B-09/009. Available from NEMI; USEPA, NSCEP (search for “815B09009”); and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)” and “Organic Contaminants (PDF)”). Referenced in Sections 611.381 and 611.645.

“USEPA 524.4 (13)” means “Method 524.4, “Measurement of Purgeable Organic Compounds in Water by Gas Chromatography/Spectrometry Using Nitrogen Purge Gas” (May 2013), USEPA, Office of Ground Water and Drinking Water, Standards and Risk Management Division, Technical Support Center, document number EPA 815/R-13/002. Available from USEPA, NSCEP (search for “815R13002”); and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)” and “Organic Contaminants (PDF)”). Referenced in Sections 611.381 and 611.645.

“USEPA 525.2 (95)” means “Method 525.2: Determination of Organic Compounds in Drinking by Liquid-Liquid Extraction and Capillary Column Gas Chromatography/Mass Spectrometry”, Revision 2.0 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Section 611.645.
BOARD NOTE: Also individually available from NEMI.

“USEPA 525.3 (12)” means “Method 525.3: Determination of Total Semivolatile Organic Chemicals in Drinking Water by Solid Phase Extraction and Capillary Column Gas Chromatography/Mass Spectrometry (GC/MS)”, Version 1.0 (February 2012), USEPA, National Exposure Research Laboratory, document number EPA 600/R-12/010. Available from USEPA, NSCEP (search “600R12010”) and USEPA, OGWDW (under “Organic Contaminants (PDF)”). Referenced in Section 611.645.

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“USEPA 531.1 (95)” means “Method 531.1: Measurement of N-Methylcarbamoyloximes and N-Methylcarbamates in Water by Direct Aqueous Injection HPLC with Post Column Derivatization”, Revision 3.1 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 531.2 (01)” means “Method 531.2: Measurement of N-Methylcarbamoyloximes and N-Methylcarbamates in Water by Direct Aqueous Injection HPLC with Postcolumn Derivatization”, Revision 1.0 (September 2001), USEPA, Office of Ground Water and Drinking Water, Standards and Risk Management Division, Technical Support Center, document number EPA 815/B-01/002. Available from NEMI; USEPA, NSCEP (search “815B01002”); and USEPA, OGWDW (under “Organic Contaminants (PDF)”). Referenced in Section 611.645. See also and

“USEPA 536 (07)” means “Method 536: Determination of Triazine Pesticides and Other Degradates in Drinking Water by Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry (LC/ESI-MS/MS)”, Version 1.0 (October 2007), USEPA Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/B-07/002. Available from USEPA, NSCEP (search “815B07002”) and USEPA, OGWDW (under “Organic Contaminants (PDF)”). Referenced in Section 611.645.

“USEPA 547 (90)” means “Method 547: Determination of Glyphosate in Drinking Water by Direct-Aqueous-Injection HPLC, Post-Column Derivatization, and Fluorescence Detection” (July 1990), in USEPA Organic Methods—Supplement I (90). Referenced in Section 611.645.

“USEPA 548.1 (92)” means “Method 548.1: Determination of Endothall in Drinking Water by Ion-Exchange Extraction, Acidic Methanol Methylation and Gas Chromatography/Mass Spectrometry”, Revision 1.0

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(August 1992), in USEPA Organic Methods—Supplement II (92). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 549.2 (97)” means “Method 549.2: Determination of Diquat and Paraquat in Drinking Water by Liquid-Solid Extraction and High Performance Liquid Chromatography with Ultraviolet Detection”, Revision 1.0 (June 1997), USEPA, Office of Research and Development, National Exposure Research Laboratory. Available from NEMI. Referenced in Section 611.645.

“USEPA 550 (90)” means “Method 550: Determination of Polycyclic Aromatic Hydrocarbons in Drinking Water by Liquid-Liquid Extraction and HPLC with Coupled Ultraviolet and Fluorescence Detection” (July 1990), in USEPA Organic Methods—Supplement I (90). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 550.1 (90)” means “Method 550.1: Determination of Polycyclic Aromatic Hydrocarbons in Drinking Water by Liquid-Solid Extraction and HPLC with Coupled Ultraviolet and Fluorescence Detection” (July 1990), in USEPA Organic Methods—Supplement I (90). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 551.1 (95)” means “Method 551.1: Measurement of N-Methylcarbamoyloximes and N-Methylcarbamates in Water by Direct Aqueous Injection HPLC with Post Column Derivatization”, Revision 1.0 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Section 611.645.

“USEPA 552.1 (92)” means “Method 552.1: Determination of Haloacetic Acids and Dalapon in Drinking Water by Ion-Exchange Liquid-Solid Extraction and Gas Chromatography with an Electron Capture Detector”, Revision 1.0 (August 1992), in USEPA Organic

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Methods—Supplement II (92). Referenced in Sections 611.381 and 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 552.2 (95)” means “Method 552.2: Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-Liquid Extraction, Derivatization and Gas Chromatography with Electron Capture Detection”, Revision 1.0 (1995), in USEPA Organic Methods—Supplement III (95). Referenced in Sections 611.381 and 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 552.3 (03)” means “Method 552.3: Determination of Haloacetic Acids and Dalapon in Drinking Water by Liquid-Liquid Microextraction, Derivatization, and Gas Chromatography with Electron Capture Detection”, Revision 1.0 (July 2003), USEPA, Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/B-03/002. Available from NEMI; USEPA, NSCEP (search “815B03002”); and USEPA, OGWDW (under “Disinfection Byproduct Rules (PDF)”). Referenced in Sections 611.381 and 611.645.

“USEPA 555 (92)” means “Method 555: Determination of Chlorinated Acids in Water by High Performance Liquid Chromatography with a Photodiode Array Ultraviolet Detector”, Revision 1.0 (August 1992), in USEPA Organic Methods—Supplement II (92). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

“USEPA 557 (09)” means “Method 557: Determination of Haloacetic Acids, Bromate, and Dalapon in Drinking Water by Ion Chromatography Electrospray Ionization Tandem Mass Spectrometry (IC-ESI-MS/MS)”, Version 1.0 (September 2009), USEPA, Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/B-09/012. Available from NEMI; USEPA, NSCEP (search “815B09012”); and USEPA,

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OGWDW (under “Disinfection Byproduct Rules (PDF)”). Referenced in Sections 611.381, 611.382, and 611.645.

“USEPA 900.0 (80)” means “Gross Alpha and Gross Beta Radioactivity in Drinking Water—Method 900.0” (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 900.0 (18)” means Method 900.0, Revision 1.0 “Gross Alpha and Gross Beta Radioactivity in Drinking Water” (February 2018), USEPA, Office of Water, document number EPA 815/B-18/002. Also available from USEPA, NSCEP (search “815B18002”) and USEPA, OGWDW (under “Radionuclides (PDF)”).

Commented [SML92]: This needs to appear before “USEPA 900.0 (80)” to appear in numerical order.

“USEPA 901.0 (80)” means “Radioactive Cesium in Drinking Water—Method 901.0” (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 901.1 (80)” means “Gamma Emitting Radionuclides in Drinking Water—Method 901.1” (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 902.0 (80)” means “Radioactive Iodine in Drinking Water—Method 902.0” (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

“USEPA 903.0 (80)” means “Alpha-Emitting Radium Isotopes in Drinking Water—Method 903.0” (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

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BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA 903.1 (80)" means "Radium-226 in Drinking Water Radon Emanation Technique—Method 903.1" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA 904.0 (80)" means "Radium-228 in Drinking Water—Method 904.0" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA 904.0 (22)" means "Radium-228 in Drinking Water—Method 904.0", Revision 1.0 (2022), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

"USEPA 905.0 (80)" means "Radioactive Strontium in Drinking Water—Method 905.0" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA 906.0 (80)" means "Tritium in Drinking Water—Method 906.0" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA 908.0 (80)" means "Uranium in Drinking Water—Radiochemical Method—Method 908.0" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI.

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“USEPA 908.1 (80)” means “Uranium in Drinking Water—Fluorometric Method—Method 908.1” (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under “Radionuclides (PDF)”).

“USEPA 1600 (02)” means “Method 1600: Enterococci in Water by Membrane Filtration Using membrane-Enterococcus Indoxyl-β-D-Glucoside Agar (mEI)” (September 2002), USEPA, Office of Water, document number EPA 821/R-02/022. Available from NEMI; USEPA, NSCEP (search “821R02022”); and USEPA, OGWDW (under “Ground Water Rule (PDF)”).

Referenced in Section 611.802.

BOARD NOTE: SM 9230 C (93) and SM 9230 (13), “Fecal Streptococcus and Enterococcus Groups, Membrane Filter Techniques”, are USEPA-approved variations of this method.

“USEPA 1601 (01)” means “Method 1601: Male-specific (F+) and Somatic Coliphage in Water by Two-step Enrichment Procedure” (April 2001), USEPA, Office of Water, document number EPA 821/R-01/030. Available from NEMI and USEPA, NSCEP (search “821R01030”); and USEPA, OGWDW (under “Ground Water Rule (PDF)”).

Referenced in Section 611.802.

“USEPA 1602 (01)” means “Method 1602: Male-specific (F+) and Somatic Coliphage in Water by Single Agar Layer (SAL) Procedure” (April 2001), USEPA, Office of Water, document number EPA 821/R-01/029. Available from NEMI and USEPA, NSCEP (search “821R01029”); and USEPA, OGWDW (under “Ground Water Rule (PDF)”).

Referenced in Section 611.802.

“USEPA 1604 (02)” means “Method 1604: Total Coliforms and Escherichia coli in Water by Membrane Filtration Using a Simultaneous Detection Technique (MI Medium)” (September 2002), USEPA, Office of Water, document number EPA 821/R-02/024. Available from

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NEMI and USEPA, NSCEP (search “821R02024”); and USEPA, OGWDW (under “Ground Water Rule (PDF)”, “Revised Total Coliforms Rule (PDF)”, and “Surface Water Treatment Rule (PDF)”). Referenced in Sections 611.802 and 611.1052.

“USEPA 1613 (94)” means “Method 1613: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS”, Revision B (October 1994), USEPA, Office of Water, Engineering and Analysis Division, document number EPA 821/B-94/005. Available from NEMI; NTRL (document number PB95-104774); USEPA, NSCEP (search “821B94005”); and USEPA, OGWDW (under “Organic Contaminants (PDF)”). Referenced in Section 611.645.

“USEPA 1622 (01)” means “Method 1622: Cryptosporidium in Water by Filtration/IMS/FA” (April 2001), USEPA, Office of Water, document number EPA 821/R-01/026. Available from NEMI; and USEPA, NSCEP (search “821R01026”). Referenced in Section 611.1007.

“USEPA 1622 (05)” means “Method 1622: Cryptosporidium in Water by Filtration/IMS/FA” (December 2005), USEPA, Office of Ground Water and Drinking Water, document number EPA 815/R-05/001. Available from USEPA, NSCEP (search “815R05001”) and USEPA, OGWDW (under “Long Term 2 Enhanced Surface Water Treatment Rule (PDF)”). Referenced in Sections 611.1004 and 611.1007.

“USEPA 1623 (99)” means “Method 1623: Cryptosporidium and Giardia in Water by Filtration/IMS/FA” (April 1999), USEPA, Office of Ground Water and Drinking Water, document number EPA 821/R-99/006. Available from USEPA, NSCEP (search “821R99006”). Referenced in Section 611.1007.

“USEPA 1623 (01)” means “Method 1623: Cryptosporidium and Giardia in Water by

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Filtration/IMS/FA” (April 2001), USEPA, Office of Ground Water and Drinking Water, document number EPA 821/R-01/025. Available from NEMI and USEPA, NSCEP (search “821R01025”). Referenced in Section 611.1007.

“USEPA 1623 (05)” means “Method 1623: Cryptosporidium and Giardia in Water by Filtration/IMS/FA” (December 2005), USEPA, Office of Ground Water and Drinking Water, document number EPA 815/R-05/002. Available from USEPA, NSCEP (search “815R05002”) and USEPA, OGWDW (under “Long Term 2 Enhanced Surface Water Treatment Rule (PDF)”). Referenced in Sections 611.1004 and 611.1007.

“USEPA 1623.1 (12)” means “Method 1623.1, “Method 1623.1: Cryptosporidium and Giardia in Water by Filtration/IMS/FA” (January 2012), USEPA, Office of Ground Water and Drinking Water, document number EPA 816/R-12/001. Available from USEPA, NSCEP (search “816R12001”) and USEPA, OGWDW (under “Long Term 2 Enhanced Surface Water Treatment Rule (PDF)”). Referenced in Section 611.1004.

USEPA Documents Containing Multiple Numbered Methods

“USEPA Environmental Inorganic Methods (93)” means “Methods for the Determination of Inorganic Substances in Environmental Samples” (August 1993), USEPA, Environmental Monitoring Systems Laboratory, document number EPA 600/R-93-100 (for USEPA 180.1 (93), USEPA 300.0 (93), USEPA 335.4 (93), USEPA 353.2 (93), and USEPA 365.1 (93) only). Available from NTRL (document number PB94-121811) and USEPA, NSCEP (search “600R93100”).

“USEPA Environmental Metals Methods (94)” means “Methods for the Determination of Metals in Environmental Samples—Supplement I”, May 1994, USEPA, Environmental Monitoring Systems Laboratory, document number EPA 600/R-94-111 (for USEPA 200.7

Commented [SML93]: These need to appear before “USEPA 1623 (99)” to appear in numerical order.

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(94), USEPA 200.8 (94), USEPA 200.9 (94), and USEPA 245.1 (94) only. Referenced in Sections 611.600, 611.611, 611.612, and 611.720. Available from NTRL (document number PB84-125472) and USEPA, NSCEP (search “600R94111”).

“USEPA Inorganic Methods (83)” means “Methods for Chemical Analysis of Water and Wastes”(March 1983), USEPA, Office of Research and Development, document number EPA 600/4-79-020 (USEPA 150.1 (71), USEPA 150.2 (82), and USEPA 245.2 (74) only). Available from NTRL (document number PB84-128677) and USEPA, NSCEP (search “600479020”). Referenced in Section 611.611.

“USEPA Organic and Inorganic Methods (00)” means “Methods for the Determination of Organic and Inorganic Compounds in Drinking Water, Volume 1” (August 2000), USEPA, Office of Water and Office of Research and Development, document number EPA 815/R-00/014 (Methods 300.1 (97), USEPA 321.8 (97), and USEPA 515.3 (96) only). Available from NTRL (document number PB2000-106981) and USEPA, NSCEP (search “815R00014”).

“USEPA Organic Methods (91)” means “Methods for the Determination of Organic Compounds in Drinking Water”, (December 1988 (revised July 1991)), USEPA, Office of Research and Development, document number EPA 600/4-88/039 (USEPA 508A (89) and USEPA 515.1 (89) only). Available from NTRL (document number PB91-231480) and USEPA, NSCEP (search “600488039”) and USEPA, OGWDW.

“USEPA Organic Methods—Supplement I (90)” means “Methods for the Determination of Organic Compounds in Drinking Water—Supplement I” (July 1990), USEPA, Environmental Monitoring Systems Laboratory, document number EPA 600/4-90/020 (USEPA 547 (90), USEPA 550 (90) and USEPA 550.1 (90) only). Available from NTRL (document number PB91-146027) and USEPA, NSCEP

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(search "600490020").

"USEPA Organic Methods—Supplement II (92)" means "Methods for the Determination of Organic Compounds in Drinking Water—Supplement II" (August 1992), USEPA, Office of Research and Development, document number EPA 600/R-92/129 (USEPA 548.1 (92), USEPA 552.1 (92), and USEPA 555 (92) only). Available from NTRL (document number PB92-207703) and USEPA, NSCEP (search "600R92129").

"USEPA Organic Methods—Supplement III (95)" means "Methods for the Determination of Organic Compounds in Drinking Water—Supplement III" (August 1995), USEPA, Office of Research and Development, document number EPA 600/R-95/131 (USEPA 502.2 (95), USEPA 504.1 (95), USEPA 505 (95), USEPA 506 (95), USEPA 507 (95), USEPA 508 (95), USEPA 508.1 (95), USEPA 515.2 (95), USEPA 524.2 (95), USEPA 525.2 (95), USEPA 531.1 (95), USEPA 551.1 (95), and USEPA 552.2 (95) only). Available from NTRL (document number PB95-261616) and USEPA, NSCEP (search "600R95131").

"USEPA Radioactivity Methods (80)" means "Prescribed Procedures for Measurement of Radioactivity in Drinking Water" (August 1980), USEPA, Office of Research and Development, Environmental Monitoring and Support Laboratory, document number EPA 600/4-80/032 (USEPA 900.0 (80), USEPA 901.0 (80), USEPA 901.1 (80), USEPA 902.0 (80), USEPA 903.0 (80), USEPA 903.1 (80), USEPA 904.0 (80), USEPA 905.0 (80), USEPA 906.0 (80), USEPA 908.0 (80), and USEPA 908.1 (80) only.). Available from NTRL (document number PB80-224744); USEPA, NSCEP (search "821480032"); and USEPA, OGWDW (under "Radionuclides (PDF)").

"USEPA Radiochemistry Procedures (84)" means "Radiochemistry Procedures Manual" (June 1984), USEPA, Eastern Environmental Radiation Facility, document number EPA 520/5-84-006 (USEPA 00-01 (84), USEPA 00-02 (84), USEPA 00-07 (84), USEPA H-02 (84),

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USEPA Ra-03 (84), USEPA Ra-04 (84), USEPA Ra-05 (84), USEPA Sr-04 (84) only). Available from NTRL (document number PB84215581); USEPA, NSCEP (search "520584006"); and USEPA, OGWDW.

Unnumbered Methods

"USEPA ARP (73)" means "Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions" (May 1973), USEPA, Office of Research and Monitoring, National Environmental Research Center, document number EPA-R4-73-014. Available from NTRL (document number PB222154) and USEPA, NSCEP (search "R473014"). Referenced in Section 611.720.

"USEPA IRM (76)" means "Interim Radiochemical Methodology for Drinking Water" (March 1976), USEPA, Office of Research and Development, Environmental Monitoring and Support Laboratory, document number EPA 600/4-75-008 (revised) (pages 1 through 37 only). Available from NTRL (document number PB253258); USEPA, NSCEP (search "600475008A"); and USEPA, OGWDW (under "Radionuclides (PDF)"). Referenced in Section 611.720.

"USEPA IRM (76), pages 1-3" means pages 1 through 3, "Gross Alpha and Beta Radioactivity in Drinking Water", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 4-5" means pages 4 through 5, "Radioactive Cesium in Drinking Water", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 6-8" means pages 6 through 8, "Radioactive Iodine in Drinking Water: Precipitation Method", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 9-12" means pages 9

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through 12, "Radioactive Iodine in Drinking Water: Distillation Method", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 13-15" means pages 13 through 15, "Alpha-Emitting Radium Isotopes in Drinking Water: Precipitation Method", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 16-23" means pages 16 through 23, "Radium-226 in Drinking Water: Radon Emanation Technique", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 24-28" means pages 24 through 28, "Radium-228 in Drinking Water: Sequential Method Radium-228/Radium-226", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 29-33" means pages 29 through 33, "Radioactive Strontium in Drinking Water", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 34-37" means pages 34 through 37, "Tritium in Drinking Water", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA RCA (79)" means "Radiochemical Analytical Procedures for Analysis of Environmental Samples" (March 1979), USEPA, Environmental Monitoring and Support Laboratory, document number EMSL-LV-0539-17 (pages 1 through 5, 19 through 48, 65 through 73, and 87 through 95 only). Available from NTRL (document number EMSLLV053917); USEPA, NSCEP (search "EMSLV053917") and USEPA, OGWDW (under "Radionuclides (PDF)"). Referenced in Section 611.720.

"USEPA RCA (79), pages 1-5" means pages 1 through 5, "Determination of Gross Alpha and Beta in Water", in USEPA RCA (79). Referenced in

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Section 611.720.

“USEPA RCA (79), pages 19-32” means pages 19 through 32, “Determination of Radium-226 and Radium-228 in Water, Soil, Air, and Biological Tissue”, in USEPA RCA (79). Referenced in Section 611.720.

“USEPA RCA (79), pages 33-48” means pages 33 through 48, “Isotopic Determination of Plutonium, Uranium, and Thorium in Water, Soil, Air, and Biological Tissue”, in USEPA RCA (79). Referenced in Section 611.720.

“USEPA RCA (79), pages 65-73” means pages 65 through 73, “Determination of Strontium-89 and Strontium-90 in Water, Soil, Air, and Biological Tissue”, in USEPA RCA (79). Referenced in Section 611.720.

“USEPA RCA (79), pages 87-91” means pages 87 through 91, “Determination of Tritium in Water, Soil, Air, and Biological Tissue (Direct Method)”, in USEPA RCA (79). Referenced in Section 611.720.

“USEPA RCA (79), pages 92-95” means pages 92 through 95, “Isotopic Analysis by Gamma Ray Spectra Using Lithium-Drifted Germanium Detectors”, in USEPA RCA (79). Referenced in Section 611.720.

“USEPA Technical Notes (94)” means “Technical Notes on Drinking Water Methods” (October 1994), document number EPA 600/R-94-173, USEPA, Office of Research and Development. Available from NTRL (document number PB95-104766); and USEPA, NSCEP (search “600R94173”). Referenced in Sections 611.531, 611.611, and 611.645.

Sources of USEPA Methods

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NEMI. National Environmental Method Index (on-line at www.nemi.gov/home/).

NTRL. National Technical Reports Library, U.S. Department of Commerce, 5301 Shawnee Road, Alexandria, VA 22312 (703-605-6000 or 800-553-6847, ntrl.ntis.gov).

USEPA, NSCEP. United States Environmental Protection Agency, National Service Center for Environmental Publications, P.O. Box 42419, Cincinnati, OH 45242-0419, accessible on-line and available by download from <http://www.epa.gov/nscep/> using the search term indicated for the individual method).

USEPA, OGWDW. United States Environmental Protection Agency, Office of Ground Water and Drinking Water (methods cited as available are directly available through a link in the indicated list on www.epa.gov/dwanalyticalmethods/approved-drinking-water-analytical-methods).

USGS Methods. All documents available from United States Geological Survey, Federal Center, Box 25286, Denver, CO 80225-0425.

“USGS I-1030-85” means “Alkalinity, electrometric titration, I-1030-85”, in “Techniques of Water-Resource Investigation of the United States Geological Survey”, 3rd ed. (1989), Book 5, Chapter A1, “Methods for Determination of Inorganic Substances in Water and Fluvial Sediments”. Available at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced in Section 611.611.

“USGS I-1601-85” means “Phosphorus, orthophosphate, colorimetric, phosphomolybdate, I-1601-85”, in “Techniques of Water-Resource Investigation of the United States Geological Survey”, 3rd ed. (1989), Book 5, Chapter A1, “Methods for Determination of Inorganic Substances in Water and Fluvial Sediments”. Available at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced in Section 611.611.

“USGS I-1700-85” means “Silica, colorimetric, molybdate blue, I-

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1700-85”, in “Techniques of Water-Resource Investigation of the United States Geological Survey”, 3rd ed. (1989), Book 5, Chapter A1, “Methods for Determination of Inorganic Substances in Water and Fluvial Sediments”. Available at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced in Section 611.611.

“USGS I-2598-85” means “Phosphorus, orthophosphate, colorimetric, phosphomolybdate, automated-discrete, I-2598-85”, in “Techniques of Water-Resource Investigation of the United States Geological Survey”, 3rd ed. (1989), Book 5, Chapter A1, “Methods for Determination of Inorganic Substances in Water and Fluvial Sediments”. Available at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced in Section 611.611.

“USGS I-2601-90” means “Phosphorus, orthophosphate, colorimetry, phosphomolybdate, automated segment-flow, I-2601-90”, in “Methods for Analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments”, U.S. Geological Survey, Open File Report 93-125 (1993). Available at pubs.usgs.gov/publication/ofr93125. Referenced in Section 611.611.

“USGS I-2700-85” means “Silica, colorimetric, molybdate blue, automated-segmented flow, I-2700-85”, in “Techniques of Water-Resource Investigation of the United States Geological Survey”, 3rd ed. (1989), Book 5, Chapter A1, “Methods for Determination of Inorganic Substances in Water and Fluvial Sediments”. Available at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced in Section 611.611.

“USGS I-3300-85” means “Cyanide, colorimetric, pyridine-pyrazolone, I-3300-85”, in “Techniques of Water-Resource Investigation of the United States Geological Survey”, 3rd ed. (1989), Book 5, Chapter A1, “Methods for Determination of Inorganic Substances in Water and Fluvial Sediments”. Available at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced in Section 611.611.

“USGS R-1110-76” means “Cesium-137 and cesium-134, dissolved. Inorganic ion-exchange method—gamma counting, R-

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1110-76", in "Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey", Book 5, Chapter A-5, "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

"USGS R-1111-76" means "Radiocesium, dissolved, as cesium-137. Inorganic ion-exchange method—beta counting, R-1111-76", in "Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey", Book 5, Chapter A-5, "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

"USGS R-1120-76" means "Gross alpha and beta radioactivity, dissolved and suspended, R-1120-76", in "Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey", Book 5, Chapter A-5, "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

"USGS R-1140-76" means "Radium, dissolved, as radium-226. Precipitation method, R-1140-76", in "Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey", Book 5, Chapter A-5, "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

"USGS R-1141-76" means "Radium-226, dissolved. Radon emanation method, R-1141-76", in "Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey", Book 5, Chapter A-5, "Methods for Determination of Radioactive Substances in Water and Fluvial Sediments" (1977). Available at

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pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“USGS R-1142-76” means “Radium-228, dissolved. Determination by separation and counting of actinium-228, R-1142-76”, in “Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey”, Book 5, Chapter A-5, “Methods for Determination of Radioactive Substances in Water and Fluvial Sediments” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“USGS R-1160-76” means “Strontium-90, dissolved. Chemical separation and precipitation method, R-1160-76”, in “Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey”, Book 5, Chapter A-5, “Methods for Determination of Radioactive Substances in Water and Fluvial Sediments” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“USGS R-1171-76” means “Tritium. Liquid scintillation, Denver lab method—gamma counting, R-1171-76”, in “Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey”, Book 5, Chapter A-5, “Methods for Determination of Radioactive Substances in Water and Fluvial Sediments” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“USGS R-1180-76” means “Uranium, dissolved. Fluorometric method—direct, R-1180-76”, in “Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey”, Book 5, Chapter A-5, “Methods for Determination of Radioactive Substances in Water and Fluvial Sediments” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“USGS R-1181-76” means “Uranium, dissolved. Fluorometric method—extraction procedure, R-1181-76”, in “Techniques of

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Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey”, Book 5, Chapter A-5, “Methods for Determination of Radioactive Substances in Water and Fluvial Sediments” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“USGS R-1182-76” means “Uranium, dissolved, isotopic ratios. Alpha spectrometry—chemical separation, R-1182-76”, in “Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey”, Book 5, Chapter A-5, “Methods for Determination of Radioactive Substances in Water and Fluvial Sediments” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

“Waters B-1011 (87)” means “Waters Test Method for Determination of Nitrite/Nitrate in Water Using Single Column Ion Chromatography”, Method B-1011 (August 1987). Available from Waters Corporation, Technical Services Division, 34 Maple St., Milford, MA 01757 (800-252-4752 or 508-478-2000, www.waters.com) and USEPA, OGWDW (under “Inorganic Contaminants and Other Inorganic Constituents (PDF)”). Referenced in Section 611.611.

- b) The Board incorporates the following federal regulations by reference:

40 CFR 3.3 (2019) (What Definitions Are Applicable to This Part?), referenced in Section 611.105.

40 CFR 3.10 (2019) (What Are the Requirements for Electronic Reporting to EPA?), referenced in Section 611.105.

40 CFR 3.2000 (2019) (What Are the Requirements Authorized State, Tribe, and Local Programs’ Reporting Systems Must Meet?), referenced in Section 611.105.

40 CFR 136.3(a) (2019), referenced in Section 611.1004.

Appendix B to 40 CFR 136 (2019), referenced in Sections 611.359, 611.609, and 611.646.

40 CFR 141.21(f)(6)(i) and (f)(6)(ii) (2019), referenced in Section

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40 CFR 142.20(b)(1) (2019), referenced in Section 611.112.

Subpart G of 40 CFR 142 (2019), referenced in Section 611.113.

c) The Board incorporates the following federal statutory provision by reference:

42 USC 300g-6(d) and (e) (2017).

d) This Part incorporates no later amendments or editions.

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART L: MICROBIOLOGICAL MONITORING AND ANALYTICAL
REQUIREMENTS

Section 611.531 Analytical Requirements

The analytical methods specified in this Section, or alternative methods approved by the Agency under Section 611.480, must be used to demonstrate compliance with the requirements of only 611.Subpart B. Measurements for pH, temperature, turbidity, and RDCs must be conducted under the supervision of a certified operator. Measurements for total coliforms, fecal coliforms and HPC must be conducted by a certified laboratory in one of the categories listed in Section 611.490(a). The following procedures must be performed by the following methods, incorporated by reference in Section 611.102:

- a) A supplier must conduct analyses as follows:
- 1) The supplier must conduct analyses for pH and temperature in accordance with one of the methods listed at Section 611.611; and
 - 2) The supplier must conduct analyses for total coliforms, fecal coliforms, heterotrophic bacteria, and turbidity in accordance with one of the following methods, and by using analytical test procedures contained in USEPA Technical Notes, incorporated by reference in Section 611.102, as follows:
 - A) Total Coliforms

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BOARD NOTE: The time from sample collection to initiation of analysis for source (raw) water samples required by Section 611.532 and Subpart B only must not exceed eight hours. The supplier is encouraged but not required to hold samples below 10° C during transit.

- i) Total Coliform Fermentation Technique. SM 9221 A (93), SM 9221 A (94), SM 9221 A (99), SM 9221 A (06), SM 9221 A (14), SM 9221 B (93), SM 9221 B (94), SM 9221 B (99), SM 9221 B (06), SM 9221 B (14), SM 9221-C (93), SM 9221 C (94), SM 9221 C (99), SM 9221 C (06), or 9221 C (14).

BOARD NOTE: Lactose broth, as commercially available, may be used in lieu of lauryl tryptose broth if the supplier conducts at least 25 parallel tests between this medium and lauryl tryptose broth using the water normally tested and this comparison demonstrates that the false-positive rate and false-negative rate for total coliforms, using lactose broth, is less than ten percent. If inverted tubes are used to detect gas production, the media should cover these tubes at least one-half to two-thirds after the sample is added. No requirement exists to run the completed phase on ten percent of all total coliform-positive confirmed tubes.

- ii) Total Coliform Membrane Filter Technique. SM 9222 A (91), SM 9222 A (94), SM 9222 A (97), SM 9222 A (06), SM 9222 A (15), SM 9222 B (91), SM 9222 B (94), SM 9222 B (97), 9222 B (06), SM 9222 B (15), SM 9222 C (91), SM 9222 C (94), SM 9222 C (97), SM 9222 C (06), or SM 9222 C (15).
- iii) ONPG-MUG (also known as Colilert®). SM 9223 (92), SM 9223 (94), SM 9223 (97), SM 9223 B (04), or SM 9223 B (16).

B) Fecal Coliforms

BOARD NOTE: The time from sample collection to initiation of analysis for source (raw) water samples required by Section 611.532 and Subpart B only must not exceed eight hours. The

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supplier is encouraged but not required to hold samples below 10° C during transit.

- i) Fecal Coliform Procedure. SM 9221 E (93), SM 9221 E (94), SM 9221 E (99), SM 9221 E (06), or SM 9221 E (14).

BOARD NOTE: A-1 broth may be held up to seven days in a tightly closed screwcap tube at 4° C (39° F).

- ii) Fecal Coliform Membrane Filter Procedure. SM 9222 D (91), SM 9222 D (94), 9222 D (97), 9222 D (06), or 9222 D (15).

C) Heterotrophic Bacteria

- i) Pour Plate Method. SM 9215 B (88), SM 9215 B (94), SM 9215 B (00), SM 9215 B (04), or SM 9215 B (16).

BOARD NOTE: The time from sample collection to initiation of analysis must not exceed eight hours. The supplier is encouraged but not required to hold samples below 10° C during transit.

- ii) SimPlate (00)

D) Turbidity

BOARD NOTE: 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.

- i) Nephelometric Method. SM 2130 B (88), SM 2130 B (94), SM 2130 B (01); USEPA 180.1 (93); or Hach 8195 (18).

- ii) GLI Method 2 (92).

- iii) Laser Nephelometry. Hach 10133 (00) (FilterTrak)-.

- iv) Laser Nephelometry (On-Line). Lovibond PTV 6000 (16), Mitchell-M5271 (09), or Mitchell-M5331 (16).

- v) Laser Nephelometry (Portable). Lovibond TB 6000 (21).

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vii) LED Nephelometry (On-Line). AMI Turbiwell (09), Lovibond PTV 1000 (16), Lovibond PTV 2000 (16), Mitchell-M5331 (09), or Mitchell M5331 (16)

viii) LED Nephelometry (Portable). Orion AQ4500 (09), Lovibond TB 3500 (21), Lovibond TB 5000 (21).

viii) 360° Nephelometry. Hach ~~Method~~-10258 (16) or Hach 10258 (18).

b) A supplier must measure residual disinfectant concentrations with one of the following analytical methods:

1) Free Chlorine

- A) Amperometric Titration. ASTM D1253-03, ASTM D1253-08, ASTM D1253-14, SM 4500-Cl D (89), SM 4500-Cl D (93), or SM 4500-Cl D (00).
- B) DPD Ferrous Titrimetric. SM 4500-Cl F (89), SM 4500-Cl F (93), or SM 4500-Cl F (00).
- C) DPD Colimetric. Hach 10260 (13), SM 4500-Cl G (89), SM 4500-Cl G (93), or SM 4500-Cl G (00).
- D) Syringaldazine (FACTS). SM 4500-Cl H (89), SM 4500-Cl H (93), or SM 4500-Cl H (00).
- E) On-Line Chlorine Analyzer. USEPA 334.0 (09).
- F) Amperometric Sensor. Palintest ChloroSense (09).
- G) Indophenol Colorimetric. Hach 10241 (15).

2) Total Chlorine

- A) Amperometric Titration. ASTM D1253-03, ASTM D1253-08, ASTM D1253-14, SM 4500-Cl D (89), SM 4500-Cl D (93), or SM 4500-Cl D (00).
- B) Amperometric Titration (low level measurement). SM 4500-Cl E (89), 4500-Cl E (93), or 4500-Cl E (00).

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- C) DPD Ferrous Titrimetric. SM 4500-Cl F (89), 4500-Cl F (93), or 4500-Cl F (00).
 - D) DPD Colimetric. SM 4500-Cl G (89), 4500-Cl G (93), or 4500-Cl G (00) or Hach 10260 (13).
 - E) Iodometric Electrode. SM 4500-Cl I (89), 4500-Cl I (93), or 4500-Cl I (00).
 - F) On-Line Chlorine Analyzer. USEPA 334.0 (09).
 - G) Amperometric Sensor. Palintest ChloroSense (09).
- 3) Chlorine Dioxide
- A) Amperometric Titration. ChlordioX Plus (13), SM 4500-ClO₂ C (88), SM 4500-ClO₂ C (93), SM 4500-ClO₂ C (00), SM 4500-ClO₂ E (88), SM 4500-ClO₂ E (93), or SM 4500-ClO₂ E (00).
 - B) DPD Method. SM -ClO₂ D (88) or SM 4500-ClO₂ D (93).
 - C) Spectrophotometric. USEPA 327.0 (05)
- 4) Ozone. Indigo Method. SM 4500-O₃ B (88), SM 4500-O₃ B (93), or SM 4500-O₃ B (00).
- 5) Alternative Test Methods. The Agency may grant a SEP that allows a supplier to use alternative chlorine test methods as follows:
- A) DPD Colorimetric Test Kits. Residual disinfectant concentrations for free chlorine and combined chlorine may also be measured by using ITS Method D99-003.
 - B) Continuous Monitoring for Free and Total Chlorine. 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. Instruments used for continuous monitoring must be calibrated with a grab sample measurement at least every five days or as otherwise provided by the Agency.

BOARD NOTE: Derived from 40 CFR 141.74(a) and appendix A to subpart C of 40 CFR 141.

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The Board has not separately listed the following approved alternative methods from Standard Methods Online that are the same version as a method that appears in a printed edition of Standard Methods. Use of the Standard Methods Online copy is acceptable.

Standard Methods Online, Method 2130 B-01 appears in the 21st, 22nd, and 23rd editions as Method 2130 B. In this Section, this appears as SM 2130 B (01).

Standard Methods Online, Methods 4500-CI D-93, 4500-CI E-93, 4500-CI F-93, 4500-CI G-93, 4500-CI H-93, and 4500-CI I-93 appear in the 19th and 20th editions as Methods 4500-CI D, 4500-CI E, 4500-CI F, 4500-CI G, 4500-CI H, and 4500-CI I. In this Section, these appear as SM 4500-CI D (93), SM 4500-CI E (93), SM 4500-CI F (93), SM 4500-CI G (93), SM 4500-CI H (93), and SM 4500-CI I (93).

Standard Methods Online, Methods 4500-CI D-00, 4500-CI E-00, 4500-CI F-00, 4500-CI G-00, 4500-CI H-00, and 4500-CI I-00 appear in the 21st, 22nd, and 23rd editions as Methods 4500-CI D, 4500-CI E, 4500-CI F, 4500-CI G, 4500-CI H, and 4500-CI I. In this Section, these appear as SM 4500-CI D (00), SM 4500-CI E (00), SM 4500-CI F (00), SM 4500-CI G (00), SM 4500-CI H (00), and SM 4500-CI I (00).

Standard Methods Online, Methods 4500-CIO₂ C-93, 4500-CIO₂ D-93, and 4500-CIO₂ E-93 appear in the 19th and 20th editions as Methods 4500-CIO₂ C, 4500-CIO₂ D, and 4500-CIO₂ E. In this Section, these appear as SM 4500-CIO₂ C (93), SM 4500-CIO₂ D (93), and SM 4500-CIO₂ E (93).

Standard Methods Online, Methods 4500-CIO₂ C-00 and 4500-CIO₂ E-00 appear in the 19th and 20th editions as Methods 4500-CIO₂ C and 4500-CIO₂ E. In this Section, these appear as SM 4500-CIO₂ C (00) and SM 4500-CIO₂ E (00).

Standard Methods Online, Method 4500-O₃ B-97 appears in the 20th edition as Method 4500-O₃ B. In this Section, this appears as SM 4500-O₃ B (97).

Standard Methods Online, Method 9215 B-00 appears in the 21st edition as Method 9215 B. In this Section, these appear as SM 9215 B (00).

Standard Methods Online, Method 9215 B-04 appears in the 22nd edition as Method 9215 B. In this Section, this appears as SM 9215 B (04).

Standard Methods Online, Methods 9221 A-99, 9221 B-99, and 9221 C-99 appear in the 21st edition as Methods 9221 A, 9221 B, and 9221 C. In this Section, these appear as SM 9221 A (99), SM 9221 B (99), and SM 9221 C (99).

Standard Methods Online, Methods 9221 A-06, 9221 B-06, 9221 C-06, and 9221 E-06

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appear in the 22nd edition as Methods 9221 A, 9221 B, 9221 C, and 9221 E. In this Section, these appear as SM 9221 A (06), SM 9221 B (06), SM 9221 C (06), and SM 9221 E (06).

Standard Methods Online, Methods 9222 A-97, 9222 B-97, and 9222 C-97 appear in the 20th and 21st editions as Methods 9222 A, 9222 B, and 9222 C. In this Section, these appear as SM 9222 A (97), SM 9222 B (97), and SM 9222 C (97).

Standard Methods Online, Method 9223 B-97 appears in the 20th and 21st editions as Method 9223 B. In this Section, this appears as SM 9223 B (97).

Standard Methods Online, Method 9223 B-04 appears in the 22nd edition as Method 9223 B. In this Section, this appears as SM 9223 B (04).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.645 Analytical Methods for Organic Chemical Contaminants

Analysis for the Section 611.311(a) VOCs under Section 611.646, the Section 611.311(c) SOCs under Section 611.648, the Section 611.310 old MCLs under Section 611.641, and for the Section 611.312 MCL for TTHMs under Section 611.381 must be conducted using the methods listed in this Section. All methods are incorporated by reference in Section 611.102. Other required analytical test procedures germane to the conduct of these analyses are contained in the USEPA Technical Notes, incorporated by reference in Section 611.102.

- a) Volatile Organic Chemical Contaminants (VOCs)
 - 1) Benzene
 - A) Purge and Trap Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
 - 2) Carbon tetrachloride
 - A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).

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- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
 - C) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 3) Chlorobenzene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 4) 1,2-Dichlorobenzene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 5) 1,4-Dichlorobenzene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 6) 1,2-Dichloroethane
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 7) 1,1-Dichloroethylene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).

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- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 8) cis-Dichloroethylene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 9) trans-Dichloroethylene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 10) Dichloromethane
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 11) 1,2-Dichloropropane
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 12) Ethylbenzene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
- B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).

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- 13) Styrene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95)
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 14) Tetrachloroethylene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
 - C) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 15) Toluene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 16) 1,2,4-Trichlorobenzene
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 17) 1,1,1-Trichloroethane
- A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).

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- C) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 18) 1,1,2-Trichloroethane
 - A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
 - C) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 19) Trichloroethylene
 - A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
 - C) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 20) Vinyl chloride
 - A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- 21) Xylenes (total)
 - A) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), 524.3 (09), or 524.4 (13).
- b) Synthetic Organic Chemical Contaminants (SOCs)-

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- 1) 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD or Dioxin). Isotope Dilution High Resolution Gas Chromatography-High Resolution Mass Spectrometry. USEPA 1613 (94).
- 2) 2,4-D
 - A) Gas Chromatography with Electron Capture Detector. ASTM D5317-93, ASTM D5317-98(2003), ASTM D5317-20, SM 6640 B (01), or SM 6640 B (06).
 - B) Liquid-Liquid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.2 (95).
 - D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas Chromatography with Electron Capture Detector. USEPA 515.4 (00).
 - E) High Performance Liquid Chromatography with Photodiode Array Ultraviolet Detector. USEPA 555 (92).
- 3) 2,4,5-TP (Silvex)
 - A) Gas Chromatography with Electron Capture Detector. ASTM D5317-93, ASTM D5317-98(2003), ASTM D5317-20, SM 6640 B (01), or SM 6640 B (06).
 - B) Liquid-Liquid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.2 (95).
 - D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas Chromatography with Electron Capture Detector. USEPA 515.4 (00).
 - E) High Performance Liquid Chromatography with Photodiode Array Ultraviolet Detector. USEPA 555 (92).

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- 4) Alachlor
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Nitrogen-Phosphorus Detector. USEPA 507 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 5) Atrazine
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Nitrogen-Phosphorus Detector. USEPA 507 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 523 (11).
 - E) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - F) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - G) Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry. USEPA 536 (07).
 - H) Liquid-Liquid Extraction and Gas Chromatography. USEPA

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551.1 (95).

- I) Immunoassay. Syngenta AG-625².
- 6) Benzo(a)pyrene
 - A) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - B) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - C) Liquid Liquid Extraction and HPLC with Coupled Ultraviolet and Fluorescence Detection. USEPA 550 (90) or USEPA 550.1 (90).
- 7) Carbofuran. Direct Aqueous Injection HPLC with Post-Column Derivatization. SM 6610 (92), 6610 (96), 6610 B (99), SM 6610 B (04), USEPA 531.1 (95), or USEPA 531.2 (01).
- 8) Chlordane
 - A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
- 9) Dalapon
 - A) Liquid-Liquid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 - B) Liquid-Liquid Microextraction, Derivatization, and Fast Gas Chromatography with Electron Capture Detector. SM 6640 B (01), SM 6640 B (06), or USEPA 515.4 (00).

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- C) Solid Phase Extractor (Acidic Methanol), Gas Chromatography, Electron Capture Detector. USEPA 552.1 (92).
 - D) Liquid-Liquid Extraction (Acidic Methanol), Gas Chromatography, Electron Capture Detector. USEPA 552.2 (95) or USEPA 552.3 (03).
 - E) Ion Chromatography, Electrospray Ionization, Tandem Mass Spectrometry. USEPA 557 (09).
- 10) Dibromochloropropane (DBCP)
- A) Microextraction and Gas Chromatography. USEPA 504.1 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.3 (09).
 - C) Liquid-Liquid Extraction, Gas Chromatography, Electron Capture Detector. USEPA 551.1 (95).
- 11) Di(2-ethylhexyl)adipate
- A) Liquid-Liquid or Liquid-Solid Extraction and Gas Chromatography with Photoionization Detection. USEPA 506 (95).
 - B) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - C) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
- 12) Di(2-ethylhexyl)phthalate
- A) Liquid-Liquid or Liquid-Solid Extraction and Gas Chromatography with Photoionization Detection. USEPA 506 (95).
 - B) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - C) Solid Phase Extraction and Capillary Column Gas

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Chromatography-Mass Spectrometry. USEPA 525.3 (12).

- 13) Dinoseb
 - A) Liquid-Liquid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 - B) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.2 (95).
 - C) Liquid-Liquid Microextraction, Derivatization, and Fast Gas Chromatography with Electron Capture Detector. SM 6640 B (01), SM 6640 B (06), or USEPA 515.4 (00).
 - D) High Performance Liquid Chromatography with Photodiode Array Ultraviolet Detector. USEPA 555 (92).
- 14) Diquat. Liquid-Solid Extraction and HPLC with Ultraviolet Detection. USEPA 549.2 (97).
- 15) Endothall. Ion-Exchange Extraction, Acidic Methanol Methylation and Gas Chromatography/Mass Spectrometry. USEPA 548.1 (92).
- 16) Endrin
 - A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).

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- 17) Ethylene Dibromide (EDB)
- A) Microextraction and Gas Chromatography. USEPA 504.1 (95).
 - B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.3 (09).
 - C) Liquid-Liquid Extraction, Gas Chromatography, Electron Capture Detector. USEPA 551.1 (95).
- 18) Glyphosate
- A) Direct Aqueous Injection HPLC, Post-Column Derivatization, and Fluorescence Detection. USEPA 547 (90).
 - B) Anion- or Cation-Exchange HPLC and Post-Column Derivatization with Ultraviolet Fluorescence Detector. SM 6651 B (91), SM 6651 B (96), SM 6651 B (00), or SM 6651 B (05).
- 19) Heptachlor
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 20) Heptachlor Epoxide
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.

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- B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 21) Hexachlorobenzene
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 22) Hexachlorocyclopentadiene
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron

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Capture Detector. USEPA 508.1 (95).

- D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 23) Lindane
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Liquid-Solid Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 24) Methoxychlor
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).

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- E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
- F) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 25) Oxamyl. Direct Aqueous Injection HPLC with Post-Column Derivatization. SM 6610 (92), 6610 (96), 6610 B (99), SM 6610 B (04), USEPA 531.1 (95), or USEPA 531.2 (01).
- 26) PCBs (measured for compliance purposes as decachlorobiphenyl). Screening by Perchlorination and Gas Chromatography. USEPA 508A (89).
- 27) PCBs (qualitatively identified as alachlors)
 - A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
- 28) Pentachlorophenol
 - A) Gas Chromatography with Electron Capture Detector. ASTM D5317-93, ASTM D5317-98(2003), ASTM D5317-20, SM 6640 B (01), or SM 6640 B (06).
 - B) Liquid-Liquid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.2 (95).
 - D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas

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- Chromatography with Electron Capture Detector. USEPA 515.4 (00).
- E) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
- F) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
- G) High Performance Liquid Chromatography with Photodiode Array Ultraviolet Detector. USEPA 555 (92).
- 29) Picloram
- A) Gas Chromatography with Electron Capture Detector. ASTM D5317-93, ASTM D5317-98(2003), ASTM D5317-20, SM 6640 B (01), or SM 6640 B (06).
- B) Liquid-Liquid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
- C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 515.2 (95).
- D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas Chromatography with Electron Capture Detector. USEPA 515.4 (00).
- E) High Performance Liquid Chromatography with Photodiode Array Ultraviolet Detector. USEPA 555 (92).
- 30) Simazine
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
- B) Gas Chromatography with Electron Capture Detector. USEPA 507 (95).
- C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
- D) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 523 (11).

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- E) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - F) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 - G) Liquid Chromatography Electrospray Ionization Tandem Mass Spectrometry. USEPA 536 (07).
 - H) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- 31) Toxaphene
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 - E) Solid Phase Extraction and Capillary Column Gas Chromatography-Mass Spectrometry. USEPA 525.3 (12).
- c) Total Trihalomethanes (TTHMs)
- 1) Purge and Trap Capillary Column Gas Chromatography. USEPA 502.2 (95).
 - 2) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA 524.2 (95), USEPA 524.3 (09), or USEPA 524.4 (13).
 - 3) Liquid-Liquid Extraction and Gas Chromatography. USEPA 551.1 (95).
- d) State-Only MCLs (for which a method is not listed in subsections (a) through (c))-
- 1) Aldrin
 - A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA

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508 (95).

- C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
- 2) DDT
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
- 3) Dieldrin
- A) Microextraction and Gas Chromatography. USEPA 505 (95)¹.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).
 - C) Liquid-Solid Extraction Gas Chromatography with Electron Capture Detector. USEPA 508.1 (95).
 - D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
- e) The following endnotes are appended to method entries in subsections (a) and (b):

¹ denotes that, for the particular contaminant, a nitrogen-phosphorus detector should be substituted for the electron capture detector in USEPA 505 (95) (or another approved method should be used) to determine alachlor, atrazine, and simazine if lower detection limits are required.

² denotes that Syngenta AG-625 (01) may not be used for the analysis of atrazine in any system where chlorine dioxide is used for drinking water treatment. In samples from all other systems, any result for atrazine generated by Syngenta AG-625 (01) that is greater than one-half the maximum contaminant level (MCL) (in other words, greater than 0.0015 mg/l or 1.5 µg/l) must be confirmed using another approved method for this contaminant and should use additional volume of the original sample collected for compliance monitoring. In instances where a result from Syngenta AG-625 (01) triggers such confirmatory testing, the

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confirmatory result is to be used to determine compliance.

BOARD NOTE: Derived from 40 CFR 141.24(e) and appendix A to subpart C of 40 CFR 141. The Board has not separately listed the following approved alternative methods from Standard Methods Online that are the same version as a method that appears in a printed edition of Standard Methods. Use of the Standard Methods Online copy is acceptable.

Standard Methods Online, Method 6610 B-04 appears in the 22nd and 23rd editions as Method 6610 B. In this Section, this appears as SM 6610 B (04).

Standard Methods Online, Method 6640 B-01 appears in the 21st edition as Method 6640 B. In this Section, this appears as SM 6640 B (01).

Standard Methods Online, Method 6640 B-06 appears in the 22nd and 23rd editions as Method 6640 B. In this Section, this appears as SM 6640 B (06).

Standard Methods Online, Method 6651 B-00 appears in the 21st edition as Method 6651 B. In this Section, this appears as SM 6651 B (00).

Standard Methods Online, Method 6651 B-05 appears in the 22nd and 23rd editions as Method 6651 B. In this Section, this appears as SM 6651 B (05).

(Source: Amended at 47 Ill. Reg. _____, effective _____)

SUBPART Q: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

Section 611.720 Analytical Methods

- a) The methods specified below, or alternative methods approved by the Agency under Section 611.480, incorporated by reference in Section 611.102, are to be used to determine compliance with Section 611.330, except in cases where alternative methods have been approved in accordance with Section 611.480.
 - 1) Gross Alpha and Beta
 - A) Evaporation Methods. SM 302 (71); SM 7110 B (85); SM 7110 B (91); SM 7110 B (96); SM 7110 B (00); USEPA 900.0 (80); USEPA 900.0 (18); USEPA 00-01 (84); USEPA IRM (76), pages 1-3; USEPA RCA (79), pages 1-5; or USGS R1120-76.

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- B) Liquid Scintillation Methods. ASTM D7283-17 or SM 7110 D (17).
- 2) Gross Alpha. Coprecipitation Methods. SM 7110 C (91), SM 7110 C (96), SM 7110 C (00), or USEPA 00-02 (84).
- 3) Radium-226
- A) Radiochemical Methods. ASTM D2460-97; ASTM D2460-07; Georgia Radium (04); New York Radium (82); SM 304 (71); SM 7500-Ra B (88); SM 7500-Ra B (93); SM 7500-Ra B (01); USEPA 903.0 (80); USEPA Ra-03 (84); USEPA IRM (76), pages 13-15; USEPA RCA (79), pages 19-32; or USGS R-1140-76.
- B) Radon Emanation Methods. ASTM D3454-97; ASTM D3454-05; EML (97) Ra-04; EML (90) Ra-05; SM 305 (71); SM 7500-Ra C (88); SM 7500-Ra C (93); SM 7500-Ra C (01); USEPA 903.1 (80); USEPA Ra-04 (84); USEPA IRM (76), pages 16-23; or USGS R-1141-76.
- C) Gamma Spectrometry. SM 7500-Ra E (01) or SM 7500-Ra E (07).
- 4) Radium-228
- A) Radiochemical Methods. Georgia Radium (04); New Jersey Radium (90); New York Radium (82); SM 7500-Ra D (88); SM 7500-Ra D (93); SM 7500-Ra D (01); USEPA 904.0 (80); USEPA 904.0 (22); USEPA Ra-05 (90); USEPA IRM (76), pages 24-28; USEPA RCA (79), pages 19-32; or USGS R-1142-76.
- B) Gamma Spectrometry. SM 7500-Ra E (01) or SM 7500-Ra E (07).
- 5) Uranium
- A) Radiochemical Methods. SM 7500-U B (88), SM 7500-U B (91), SM 7500-U B (96), SM 7500-U B (00), or USEPA 908.0 (80).
- B) Fluorometric Methods. ASTM D2907-97, EML (90) U-04, EML (97) U-04, SM 7500-U C (88), SM 7500-U C (91), SM 7500-U C (96), SM 7500-U C (00), USEPA 908.1 (80), USGS R-1180-76, or USGS R-1181-76.

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- C) ICP-MS Methods. ASTM D5673-03, ASTM D5673-05, ASTM D5673-10, ASTM D5673-16; SM 3125 (97); or USEPA 200.8 (94).
- D) Alpha Spectrometry. ASTM D3972-97; ASTM D3972-02; ASTM D3972-09; EML (90) U-02; EML (97) U-02; USEPA 00-07 (84); USEPA RCA (79), pages 33-48; or USGS R-1182-76.
- E) Laser Spectrometry. ASTM D5174-97, ASTM D5174-02, or ASTM D5174-07.
- F) Alpha Liquid Scintillation Spectrometry. ASTM D6239-09.

BOARD NOTE: If uranium (U) is determined by mass, a conversion factor of 0.67 pCi/ μ g of uranium must be used. This conversion factor is based on the 1:1 activity ratio of ^{234}U and ^{238}U that is characteristic of naturally occurring uranium.

- 6) Radioactive Cesium
 - A) Radiochemical Methods. ASTM D2459-72; SM 7500-Cs B (88), SM 7500-Cs B (93); SM 7500-Cs B (00); USEPA 901.0 (80); USEPA IRM (76), pages 4-5; or USGS R-1111-76.
 - B) Gamma Ray Spectrometry. ASTM D3649-91; ASTM D3649-98a; ASTM D3649-06; EML (90) Ga-01; EML (97) Ga-01-R; SM 7120 (94); SM 7120 (97); USEPA 901.1 (80); USEPA RCA (79), pages 92-95; or USGS R-1110-76.
- 7) Radioactive Iodine
 - A) Radiochemical Methods. ASTM D3649-91; ASTM D3649-98a; ASTM D3649-06; SM 7500-I B (88); SM 7500-I B (93); SM 7500-I B (00); SM 7500-I C (88); SM 7500-I C (93); SM 7500-I C (00); SM 7500-I D (88); SM 7500-I D (93); SM 7500-I D (00); USEPA 902.0 (80); USEPA IRM (76), pages 6-8; or USEPA IRM (76), pages 9-12.
 - B) Gamma Ray Spectrometry. ASTM D4785-93; ASTM D4785-00a; ASTM D4785-08; ASTM D4785-20; EML (90) Ga-01; EML (97) Ga-01-R; SM 7120 (94); SM 7120 (97); USEPA 901.1 (80); or USEPA RCA (79), pages 92-95.

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- 8) Radioactive Strontium-89 and -90. Radiochemical Methods. EML (90) Sr-01; EML (97) Sr-01; EML (90) Sr-02; EML (97) Sr-02; SM 303 (71); SM 7500-Sr B (88); SM 7500-Sr B (93); SM 7500-Sr B (01); USEPA 905.0 (80); USEPA Sr-04 (84); USEPA IRM (76), pages 29-33; USEPA RCA (79), pages 65-73; or USGS R-1160-76.
 - 9) Tritium. Liquid Scintillation. ASTM D4107-91; ASTM D4107-98; ASTM D4107-08; ASTM D4107-20; SM 306 (71); SM 7500-³H B (88); SM 7500-³H B (93); SM 7500-³H B (00); USEPA 906.0 (80); USEPA H-02 (84); USEPA IRM (76), pages 34-37; USEPA RCA (79), pages 87-91; or USGS R-1171-76.
 - 10) Gamma Emitters. Gamma Ray Spectrometry. ASTM D3649-91; ASTM D3649-98a; ASTM D3649-06; ASTM D4785-93; ASTM D4785-00a; ASTM D4785-08; ASTM D4785-20; EML (90) Ga-01; EML (97) Ga-01-R; SM 7120 (94); SM 7120 (97); SM 7500-Cs B (88); SM 7500-Cs B (93); SM 7500-Cs B (00); SM 7500-I B (88); SM 7500-I B (93); SM 7500-I B (00); USEPA 901.0 (80); USEPA 901.1 (80); USEPA 902.0 (80); USEPA RCA (79), pages 92-95; or USGS R-1110-76.
- b) When the identification and measurement of radionuclides other than those listed in subsection (a) are required, the following methods, incorporated by reference in Section 611.102, are to be used, except in cases where alternative methods have been approved in accordance with Section 611.480:
- 1) USEPA ARP (73).
 - 2) EML (90) or EML (97).
- c) For the purpose of monitoring radioactivity concentrations in drinking water, the required sensitivity of the radioanalysis is defined in terms of a detection limit. The detection limit must be that concentration which can be counted with a precision of plus or minus 100 percent at the 95 percent confidence level (1.96σ , where σ is the standard deviation of the net counting rate of the sample).
- 1) To determine compliance with Section 611.330(b), (c), and (e), the detection limit must not exceed the concentrations set forth in the following table:

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Contaminant	Detection Limit
Gross alpha particle activity	3 pCi/ℓ
Radium-226	1 pCi/ℓ
Radium-228	1 pCi/ℓ
Uranium	1 µg/ℓ

BOARD NOTE: Derived from 40 CFR 141.25(c) Table B.

- 2) To determine compliance with Section 611.330(d), the detection limits must not exceed the concentrations listed in the following table:

Radionuclide	Detection Limit
Tritium	1,000 pCi/ℓ
Strontium-89	10 pCi/ℓ
Strontium-90	2 pCi/ℓ
Iodine-131	1 pCi/ℓ
Cesium-134	10 pCi/ℓ
Gross beta	4 pCi/ℓ
Other radionuclides	1/10 of applicable limit

BOARD NOTE: Derived from 40 CFR 141.25(c) Table C.

- d) To judge compliance with the MCLs listed in Section 611.330, averages of data must be used and must be rounded to the same number of significant figures as the MCL for the substance in question.

BOARD NOTE: Derived from 40 CFR 141.25 and appendix A to subpart C of 40 CFR 141. The Board has not separately listed the following approved alternative methods from Standard Methods Online that are the same version as a method that appears in a printed edition of

Commented [SML95]: Remove the bullet point as it was not in the Adoption from 44 Ill. Reg. 6996, effective April 17, 2020. If you wish for it to remain then it will need to be underscored.

Commented [SML96]: Remove the bullet point as it was not in the Adoption from 44 Ill. Reg. 6996, effective April 17, 2020. If you wish for it to remain then it will need to be underscored.

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Standard Methods. Use of the Standard Methods Online copy is acceptable.

Standard Methods Online, Methods 7110 B-91 and 7110 C-91 appear in the 18th and 19th editions as Methods 7110 B and 7110 C. In this Section, these appear as SM 7110 B (91) and SM 7110 C (91).

Standard Methods Online, Methods 7110 B-00 and 7110 C-00 appear in the 21st, 22nd, and 23rd editions as Methods 7110 B and 7110 C. In this Section, these appear as SM 7110 B (00) and SM 7110 C (00).

Standard Methods Online, Method 7120-97 appears in the 20th, 21st, 22nd, and 23rd editions as Method 7120. In this Section, this appears as SM 7120 (97).

Standard Methods Online, Method 7500-Cs B-00 appears in the 21st, 22nd, and 23rd editions as Method 7500-Cs B. In this Section, thus appears as SM 7500-Cs B (00).

Standard Methods Online, Methods 7500-I B-00, 7500-I C-00, and 7500-I D-00 appear in the 21st, 22nd, and 23rd editions as Methods 7500-I B, 7500-I C, and 7500-I D. In this Section, these appear as SM 7500-I B (00), SM 7500-I C (00), and SM 7500-I D (00).

Standard Methods Online, Methods 7500-Ra B-01, 7500-Ra C-01, and 7500-Ra D-01 appears in the 21st and 22nd editions as Methods 7500-Ra B, 7500-Ra C, and 7500-Ra D. In this Section, these appear as SM 7500-Ra B (01), SM 7500-Ra C (01), and SM 7500-Ra D (01).

Standard Methods Online, Methods 7500-Ra B-07, 7500-Ra C-07, 7500-Ra D-07, and 7500-Ra E-07 appears in the 23rd edition as Methods 7500-Ra B, 7500-Ra C, 7500-Ra D, and 7500-Ra E. In this Section, these appear as SM 7500-Ra B (07), SM 7500-Ra C (07), SM 7500-Ra D (07), and SM 7500-Ra E (07).

Standard Methods Online, Method 7500-Sr B-01 appears in the 21st, 22nd, and 23rd editions as Method 7500-Sr B. In this Section, this appears as SM 7500-Sr B (01).

Standard Methods Online, Method 7500-³H B-00 appears in the 21st, 22nd, and 23rd editions as Method 7500-³H B. In this Section, this appears as SM 7500-³H B (00)

Standard Methods Online, Methods 7500-U B and 7500-U C-00 appear in the 21st, 22nd, and 23rd editions as Methods 7500-U B and 7500-U C. In this Section, these appear as SM 7500-U B (00) and SM 7500-U C (00).

(Source: Amended at 47 Ill. Reg. _____, effective _____)