

POLLUTION CONTROL BOARD

NOTICE OF PROPOSED AMENDMENTS

- 1) Heading of the Part: Primary Drinking Water Standards
- 2) Code Citation: 35 Ill. Adm. Code 611
- 3)

<u>Section Numbers</u> :	<u>Proposed Actions</u> :
611.102	Amendment
611.531	Amendment
611.645	Amendment
611.720	Amendment
- 4) Statutory 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].
- 5) A Complete Description of the Subjects and Issues Involved: The following briefly describes the subjects and issues involved in the docket R23-9 rulemaking which amends Part 611. A comprehensive description is contained in the Board's opinion and order of June 1, 2023, proposing amendments in docket R23-9, which opinion and order is available from the address below.

The Board today proposes amendments to Illinois regulations that are “identical in substance” (IIS) to drinking water regulations adopted by the United States Environmental Protection Agency (USEPA) in the second half of 2022. USEPA did not amend the federal National Primary Drinking Water Regulations (NPDWRs) during this period, but it granted summary approval to seven additional alternative test procedures (ATPs) for analyzing contaminants in drinking water. The Board adds these additional ATPs to the Illinois drinking water monitoring rules.

Sections 7.2 and 17.5 of the Illinois Environmental Protection Act (Act) (415 ILCS 5/7.2 and 17.5 (2020)) provide for quick adoption by the Board of regulations that are IIS to regulations that USEPA adopts to implement Sections 1412(b), 1414(c), 1417(a), and 1445(a) of the federal Safe Drinking Water Act (SDWA) (42 U.S.C. §§ 300g-1(a), 300g-3(c), 300g-6(a), and 300j-4(a) (2021)). The National Primary Drinking Water Regulations (NPDWRs) implement these sections of SDWA. SDWA regulations are found at 40 C.F.R. 141 through 143.

On August 17, 2022, USEPA granted expediated approval to seven ATPs for analysis of contaminants in drinking water. The seven methods consist of one new method developed by USEPA, three updated methods from ASTM International, and three new methods developed by vendors. The methods apply to a wide range of drinking water analyses. The Board incorporates by reference the new ATPs into the Illinois rules. The

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Board does not deviate from the substance of USEPA's approval of the methods.

- 6) Published studies or reports, and sources of underlying data, used to compose this rulemaking: None
- 7) Will this proposed rulemaking replace an emergency rule currently in effect? No
- 8) Does this rulemaking contain an automatic repeal date? No
- 9) Does this proposed rulemaking contain incorporations by reference? Yes

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

“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.

“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.

“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.

- 10) Are there any proposed rulemakings to this Part pending? Yes

Section Numbers:
611.100

Proposed Actions:
Amendment

Illinois Register Citations:
47 Ill. Reg. 9557; July 14, 2023

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611.101	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.102	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.103	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.105	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.108	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.109	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.110	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.111	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.112	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.113	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.114	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.120	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.121	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.125	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.126	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.130	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.131	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.160	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.161	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.201	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.202	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.211	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.212	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.213	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.220	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.230	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.231	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.232	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.233	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.240	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.241	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.242	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.250	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.261	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.262	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.276	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.280	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.290	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.295	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.296	Amendment	47 Ill. Reg. 9557; July 14, 2023

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611.300	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.301	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.310	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.311	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.312	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.313	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.325	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.330	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.350	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.351	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.352	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.353	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.354	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.355	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.356	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.357	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.358	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.359	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.360	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.361	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.362	New Section	47 Ill. Reg. 9557; July 14, 2023
611.363	New Section	47 Ill. Reg. 9557; July 14, 2023
611.380	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.381	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.531	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.532	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.533	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.560	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.591	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.592	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.600	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.611	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.641	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.645	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.648	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.720	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.731	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.732	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.733	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.740	Amendment	47 Ill. Reg. 9557; July 14, 2023

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611.741	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.742	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.801	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.802	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.840	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.883	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.884	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.901	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.902	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.923	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.954	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1001	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1002	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1006	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1013	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1015	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1052	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.1350	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1351	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1352	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1353	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1354	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1355	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1356	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1357	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1358	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1359	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1360	New Section	47 Ill. Reg. 9557; July 14, 2023
611.1361	New Section	47 Ill. Reg. 9557; July 14, 2023
611.APPENDIX G	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.APPENDIX H	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.TABLE F	Amendment	47 Ill. Reg. 9557; July 14, 2023
611.TABLE G	Repealed	47 Ill. Reg. 9557; July 14, 2023
611.TABLE R	New Section	47 Ill. Reg. 9557; July 14, 2023
611.TABLE Z	Amendment	47 Ill. Reg. 9557; July 14, 2023

- 11) Statement of Statewide Policy Objectives: This proposed amendment does not create or enlarge a State mandate as defined in Section 3(b) of the State Mandates Act. [30 ILCS 805/3].

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- 12) Time, Place, and Manner in which interested persons may comment on this proposed rulemaking: The Board will accept written public comments on this proposal for a period of at least 45 days after the date of publication in the *Illinois Register*. Public comments should refer to Docket R23-9 and be filed electronically through the Clerk's Office On-Line (COOL) on the Board's website at pcb.illinois.gov. Public comments may be addressed to:
- Clerk's Office
Illinois Pollution Control Board
60 E. Van Buren St., Ste. 630
Chicago, IL 60605
- Interested persons may download copies of the Board's opinions and orders in R23-9 from the Board's Web site at pcb.illinois.gov and may also request copies by calling the Clerk's office at 312-814-3620.
- 13) Initial Regulatory Flexibility Analysis:
- A) Types of small businesses, small municipalities and not for profit corporations affected: None
- B) Reporting, bookkeeping or other procedures required for compliance: The proposed amendments in this rulemaking will not themselves require recordkeeping or reporting procedures for compliance.
- C) Types of professional skills necessary for compliance: None
- 14) Small Business Impact Analysis: The Board does not expect that the proposed rules will impact small business.
- 15) Regulatory Agenda on which this rulemaking was summarized: January 2023

The full text of the Proposed Amendments begins on the next page:

Comparing:
Agency Proposed vs. JCAR r01

~~ILLINOIS REGISTER~~

JCAR350611-2311586r01

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

PART 611
PRIMARY DRINKING WATER STANDARDS

SUBPART A: GENERAL

Section	
611.100	Purpose, Scope, and Applicability
611.101	Definitions
611.102	Incorporations by Reference
611.103	Severability
611.105	Electronic Reporting
611.107	Agency Inspection of PWS Facilities (Repealed)
611.108	Delegation to Local Government
611.109	Enforcement
611.110	Special Exception Permits
611.111	Relief Equivalent to SDWA Section 1415(a) Variances
611.112	Relief Equivalent to SDWA Section 1416 Exemptions
611.113	Alternative Treatment Techniques
611.114	Siting Requirements
611.115	Source Water Quantity (Repealed)
611.120	Effective Dates
611.121	Maximum Contaminant Levels
611.125	Fluoridation Requirement
611.126	Prohibition on Use of Lead
611.130	Special Requirements for Certain Variances and Adjusted Standards
611.131	Relief Equivalent to SDWA Section 1415(e) Small System Variance
611.160	Composite Correction Program
611.161	Case-by-Case Reduced Subpart Y Monitoring for Wholesale and Consecutive Systems

SUBPART B: FILTRATION AND DISINFECTION

Section	
611.201	Requiring a Demonstration
611.202	Procedures for Agency Determinations
611.211	Filtration Required
611.212	Groundwater under Direct Influence of Surface Water

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- 611.213 No Method of HPC Analysis
- 611.220 General Requirements
- 611.230 Filtration Effective Dates
- 611.231 Source Water Quality Conditions
- 611.232 Site-Specific Conditions
- 611.233 Treatment Technique Violations
- 611.240 Disinfection
- 611.241 Unfiltered PWSs
- 611.242 Filtered PWSs
- 611.250 Filtration
- 611.261 Unfiltered PWSs: Reporting and Recordkeeping
- 611.262 Filtered PWSs: Reporting and Recordkeeping
- 611.271 Protection during Repair Work (Repealed)
- 611.272 Disinfection Following Repair (Repealed)
- 611.276 Recycle Provisions

SUBPART C: USE OF NON-CENTRALIZED TREATMENT DEVICES

Section

- 611.280 Point-of-Entry Devices
- 611.290 Use of Point-of-Use Devices or Bottled Water

SUBPART D: TREATMENT TECHNIQUES

Section

- 611.295 General Requirements
- 611.296 Acrylamide and Epichlorohydrin
- 611.297 Corrosion Control (Repealed)

SUBPART F: MAXIMUM CONTAMINANT LEVELS (MCLs) AND
MAXIMUM RESIDUAL DISINFECTANT LEVELS (MRDLs)

Section

- 611.300 Old MCLs for Inorganic Chemical Contaminants
- 611.301 Revised MCLs for Inorganic Chemical Contaminants
- 611.310 State-Only Maximum Contaminant Levels (MCLs) for Organic Chemical Contaminants
- 611.311 Revised MCLs for Organic Chemical Contaminants
- 611.312 Maximum Contaminant Levels (MCLs) for Disinfection Byproducts (DBPs)
- 611.313 Maximum Residual Disinfectant Levels (MRDLs)
- 611.320 Turbidity (Repealed)

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- 611.325 Microbiological Contaminants
- 611.330 Maximum Contaminant Levels for Radionuclides
- 611.331 Beta Particle and Photon Radioactivity (Repealed)

SUBPART G: LEAD AND COPPER

- Section
- 611.350 General Requirements
- 611.351 Applicability of Corrosion Control
- 611.352 Corrosion Control Treatment
- 611.353 Source Water Treatment
- 611.354 Lead Service Line Replacement
- 611.355 Public Education and Supplemental Monitoring
- 611.356 Tap Water Monitoring for Lead and Copper
- 611.357 Monitoring for Water Quality Parameters
- 611.358 Monitoring for Lead and Copper in Source Water
- 611.359 Analytical Methods
- 611.360 Reporting
- 611.361 Recordkeeping

SUBPART I: DISINFECTANT RESIDUALS, DISINFECTION BYPRODUCTS,
AND DISINFECTION BYPRODUCT PRECURSORS

- Section
- 611.380 General Requirements
- 611.381 Analytical Requirements
- 611.382 Monitoring Requirements
- 611.383 Compliance Requirements
- 611.384 Reporting and Recordkeeping Requirements
- 611.385 Treatment Technique for Control of Disinfection Byproduct (DBP) Precursors

SUBPART K: GENERAL MONITORING AND ANALYTICAL REQUIREMENTS

- Section
- 611.480 Alternative Analytical Techniques
- 611.490 Certified Laboratories
- 611.491 Laboratory Testing Equipment (Repealed)
- 611.500 Consecutive PWSs
- 611.510 Special Monitoring for Unregulated Contaminants (Repealed)

SUBPART L: MICROBIOLOGICAL MONITORING

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AND ANALYTICAL REQUIREMENTS~~

Section

611.521	Routine Coliform Monitoring (Repealed)
611.522	Repeat Coliform Monitoring (Repealed)
611.523	Invalidation of Total Coliform Samples (Repealed)
611.524	Sanitary Surveys (Repealed)
611.525	Fecal Coliform and E. Coli Testing (Repealed)
611.526	Analytical Methodology (Repealed)
611.527	Response to Violation (Repealed)
611.528	Transition from Subpart L to Subpart AA Requirements (Repealed)
611.531	Analytical Requirements
611.532	Unfiltered PWSs
611.533	Filtered PWSs

SUBPART M: TURBIDITY MONITORING AND ANALYTICAL REQUIREMENTS

Section

611.560	Turbidity
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SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

Section

611.591	Violation of a State MCL
611.592	Frequency of State Monitoring
611.600	Applicability
611.601	Monitoring Frequency
611.602	Asbestos Monitoring Frequency
611.603	Inorganic Monitoring Frequency
611.604	Nitrate Monitoring
611.605	Nitrite Monitoring
611.606	Confirmation Samples
611.607	More Frequent Monitoring and Confirmation Sampling
611.608	Additional Optional Monitoring
611.609	Determining Compliance
611.610	Inorganic Monitoring Times
611.611	Inorganic Analysis
611.612	Monitoring Requirements for Old Inorganic MCLs
611.630	Special Monitoring for Sodium
611.631	Special Monitoring for Inorganic Chemicals (Repealed)

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SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

Section

- 611.640 Definitions
- 611.641 Old MCLs
- 611.645 Analytical Methods for Organic Chemical Contaminants
- 611.646 Phase I, Phase II, and Phase V Volatile Organic Contaminants
- 611.647 Sampling for Phase I Volatile Organic Contaminants (Repealed)
- 611.648 Phase II, Phase IIB, and Phase V Synthetic Organic Contaminants
- 611.650 Monitoring for 36 Contaminants (Repealed)
- 611.657 Analytical Methods for 36 Contaminants (Repealed)
- 611.658 Special Monitoring for Organic Chemicals (Repealed)

SUBPART P: THM MONITORING AND ANALYTICAL REQUIREMENTS

Section

- 611.680 Sampling, Analytical, and other Requirements (Repealed)
- 611.683 Reduced Monitoring Frequency (Repealed)
- 611.684 Averaging (Repealed)
- 611.685 Analytical Methods (Repealed)
- 611.686 Modification to System (Repealed)
- 611.687 Sampling for Maximum THM Potential (Repealed)
- 611.688 Applicability Dates (Repealed)

SUBPART Q: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

Section

- 611.720 Analytical Methods
- 611.731 Gross Alpha
- 611.732 Beta Particle and Photon Radioactivity
- 611.733 General Monitoring and Compliance Requirements

SUBPART R: ENHANCED FILTRATION AND DISINFECTION:
SYSTEMS THAT SERVE 10,000 OR MORE PEOPLE

Section

- 611.740 General Requirements
- 611.741 Standards for Avoiding Filtration
- 611.742 Disinfection Profiling and Benchmarking
- 611.743 Filtration
- 611.744 Filtration Sampling Requirements

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611.745 Reporting and Recordkeeping Requirements

SUBPART S: GROUNDWATER RULE

Section

611.800 General Requirements and Applicability
611.801 Sanitary Surveys for GWS Suppliers
611.802 Groundwater Source Microbial Monitoring and Analytical Methods
611.803 Treatment Technique Requirements for GWS Suppliers
611.804 Treatment Technique Violations for GWS Suppliers
611.805 Reporting and Recordkeeping for GWS Suppliers

SUBPART T: REPORTING AND RECORDKEEPING

Section

611.830 Applicability
611.831 Monthly Operating Report (Repealed)
611.832 Notice by Agency (Repealed)
611.833 Cross Connection Reporting (Repealed)
611.840 Reporting
611.851 Reporting MCL, MRDL, and other Violations (Repealed)
611.852 Reporting other Violations (Repealed)
611.853 Notice to New Billing Units (Repealed)
611.854 General Content of Public Notice (Repealed)
611.855 Mandatory Health Effects Language (Repealed)
611.856 Fluoride Notice (Repealed)
611.858 Fluoride Secondary Standard (Repealed)
611.860 Record Maintenance
611.870 List of 36 Contaminants (Repealed)

SUBPART U: CONSUMER CONFIDENCE REPORTS

Section

611.881 Purpose and Applicability
611.882 Compliance Dates
611.883 Content of the Reports
611.884 Required Additional Health Information
611.885 Report Delivery and Recordkeeping

SUBPART V: PUBLIC NOTIFICATION OF DRINKING WATER VIOLATIONS

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Section	
611.901	General Public Notification Requirements
611.902	Tier 1 Public Notice: Form, Manner, and Frequency of Notice
611.903	Tier 2 Public Notice: Form, Manner, and Frequency of Notice
611.904	Tier 3 Public Notice: Form, Manner, and Frequency of Notice
611.905	Content of the Public Notice
611.906	Notice to New Billing Units or New Customers
611.907	Special Notice of the Availability of Unregulated Contaminant Monitoring Results
611.908	Special Notice for Exceedance of the Fluoride Secondary Standard
611.909	Special Notice for Nitrate Exceedances above the MCL by a Non-Community Water System
611.910	Notice by the Agency on Behalf of a PWS
611.911	Special Notice for Cryptosporidium

SUBPART W: INITIAL DISTRIBUTION SYSTEM EVALUATIONS

Section	
611.920	General Requirements
611.921	Standard Monitoring
611.922	System-Specific Studies
611.923	40/30 Certification
611.924	Very Small System Waivers
611.925	Subpart Y Compliance Monitoring Location Recommendations

SUBPART X: ENHANCED FILTRATION AND DISINFECTION –
SYSTEMS SERVING FEWER THAN 10,000 PEOPLE

Section	
611.950	General Requirements
611.951	Finished Water Reservoirs
611.952	Additional Watershed Control Requirements for Unfiltered Systems
611.953	Disinfection Profile
611.954	Disinfection Benchmark
611.955	Combined Filter Effluent Turbidity Limits
611.956	Individual Filter Turbidity Requirements
611.957	Reporting and Recordkeeping Requirements

SUBPART Y: STAGE 2 DISINFECTION BYPRODUCTS REQUIREMENTS

Section

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- 611.970 General Requirements
- 611.971 Routine Monitoring
- 611.972 Subpart Y Monitoring Plan
- 611.973 Reduced Monitoring
- 611.974 Additional Requirements for Consecutive Systems
- 611.975 Conditions Requiring Increased Monitoring
- 611.976 Operational Evaluation Levels
- 611.977 Requirements for Remaining on Reduced TTHM and HAA5 Monitoring Based on Subpart I Results
- 611.978 Requirements for Remaining on Increased TTHM and HAA5 Monitoring Based on Subpart I Results
- 611.979 Reporting and Recordkeeping Requirements

SUBPART Z: ENHANCED TREATMENT FOR CRYPTOSPORIDIUM

- Section
- 611.1000 General Requirements
- 611.1001 Source Water Monitoring Requirements: Source Water Monitoring
- 611.1002 Source Water Monitoring Requirements: Sampling Schedules
- 611.1003 Source Water Monitoring Requirements: Sampling Locations
- 611.1004 Source Water Monitoring Requirements: Analytical Methods
- 611.1005 Source Water Monitoring Requirements: Approved Laboratories
- 611.1006 Source Water Monitoring Requirements: Reporting Source Water Monitoring Results
- 611.1007 Source Water Monitoring Requirements: Grandfathering Previously Collected Data
- 611.1008 Disinfection Profiling and Benchmarking Requirements: Requirements When Making a Significant Change in Disinfection Practice
- 611.1009 Disinfection Profiling and Benchmarking Requirements: Developing the Disinfection Profile and Benchmark
- 611.1010 Treatment Technique Requirements: Bin Classification for Filtered System Suppliers
- 611.1011 Treatment Technique Requirements: Filtered System Additional Cryptosporidium Treatment Requirements
- 611.1012 Treatment Technique Requirements: Unfiltered System Cryptosporidium Treatment Requirements
- 611.1013 Treatment Technique Requirements: Schedule for Compliance with Cryptosporidium Treatment Requirements
- 611.1014 Treatment Technique Requirements: Requirements for Uncovered Finished Water Storage Facilities

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- 611.1015 Requirements for Microbial Toolbox Components: Microbial Toolbox Options for Meeting Cryptosporidium Treatment Requirements
- 611.1016 Requirements for Microbial Toolbox Components: Source Toolbox Components
- 611.1017 Requirements for Microbial Toolbox Components: Pre-Filtration Treatment Toolbox Components
- 611.1018 Requirements for Microbial Toolbox Components: Treatment Performance Toolbox Components
- 611.1019 Requirements for Microbial Toolbox Components: Additional Filtration Toolbox Components
- 611.1020 Requirements for Microbial Toolbox Components: Inactivation Toolbox Components
- 611.1021 Reporting and Recordkeeping Requirements: Reporting Requirements
- 611.1022 Reporting and Recordkeeping Requirements: Recordkeeping Requirements
- 611.1023 Requirements to Respond to Significant Deficiencies Identified in Sanitary Surveys Performed by USEPA or the Agency

SUBPART AA: REVISED TOTAL COLIFORM RULE

Section

- 611.1051 General
- 611.1052 Analytical Methods and Laboratory Certification
- 611.1053 General Monitoring Requirements for all PWSs
- 611.1054 Routine Monitoring Requirements for Non-CWSs That Serve 1,000 or Fewer People Using Only Groundwater
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- 611.1056 Routine Monitoring Requirements for Subpart B Systems That Serve 1,000 or Fewer People
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- 611.1058 Repeat Monitoring and E. coli Requirements
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- 611.APPENDIX A Regulated Contaminants
- 611.APPENDIX B Percent Inactivation of G. Lamblia Cysts
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- 611.APPENDIX D Defined Substrate Method for the Simultaneous Detection of Total Coliforms and Escherichia Coli from Drinking Water (Repealed)
- 611.APPENDIX E Mandatory Lead Public Education Information for Community Water

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611.APPENDIX F	Mandatory Lead Public Education Information for Non-Transient Non-Community Water Systems
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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 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

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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 in R18-9 at 42 Ill. Reg. 9316, effective May 29, 2018; amended in R18-17 at ~~4243~~ Ill. Reg. ~~8204~~8206, 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 47 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).

““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.

““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.

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~~“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.~~

~~“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.~~

~~“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.~~

~~“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.~~

~~“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.~~

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

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“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.

“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.

“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.

“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.

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“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.

“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.

“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.

“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.

“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,

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Hydride Generation²², approved 1997, referenced in Section 611.611.

“ASTM D2972-03 B²²” means “Standard Test Methods for Arsenic in Water²²”, “Test Method B— Atomic Absorption, Hydride Generation²²”, approved 2003, referenced in Section 611.611.

“ASTM D2972-15 B²²” means “Standard Test Methods for Arsenic in Water²²”, “Test Method B— Atomic Absorption, Hydride Generation²²”, approved 2015, referenced in Section 611.611.

“ASTM D2972-97 C²²” means “Standard Test Methods for Arsenic in Water²²”, “Test Method C— Atomic Absorption, Graphite Furnace²²”, approved 1997, referenced in Section 611.611.

“ASTM D2972-03 C²²” means “Standard Test Methods for Arsenic in Water²²”, “Test Method C— Atomic Absorption, Graphite Furnace²²”, approved 2003, referenced in Section 611.611.

“ASTM D2972-15 C²²” means “Standard Test Methods for Arsenic in Water²²”, “Test Method C— Atomic Absorption, Graphite Furnace²²”, approved 2015, referenced in Section 611.611.

“ASTM D3223-97²²” means “Standard Test Method for Total Mercury in Water²²”, approved 1997, referenced in Section 611.611.

“ASTM D3223-02²²” means “Standard Test Method for Total Mercury in Water²²”, approved 2002, referenced in Section 611.611.

“ASTM D3223-12²²” means “Standard Test Method for Total Mercury in Water²²”, approved 2012, referenced in Section 611.611.

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~~“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.

~~“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.

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“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.

“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.

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“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 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.

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“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.

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

~~“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.~~

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“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 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~~ [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

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Identification of Coliform Bacteria and Escherichia coli in Finished Waters²², 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, OGWDW (under ²²"Ground Water Rule (PDF)" and ²²"Revised Total Coliforms Rules (PDF)"). Referenced in Sections 611.802 and 611.1052.

²²"E*Colite (98)" means ²²"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~~ [01843-1032](#) and USEPA, OGWDW (under ²²"Ground Water Rule (PDF)" and ²²"Revised Total Coliforms Rules (PDF)"). Referenced in Sections 611.802 and 611.1052.

EML Methods. Available from USEPA, OGWDW (listed under ²²"Radionuclides (PDF)" by individual method numbers).

EML (90). In ²²"EML Procedures Manual", HASL 300, Volumes 1 and 2, 27th ed. (November 1990).

²²"EML (90) Ga-01" means section 4.5.2.3, Ga-01, ²²"Gamma Radioassay", in section 4.5.2.3, ²²"Radiometry", in 27th ed. Referenced in Section 611.720. USEPA, OGWDW lists EML (90) Ga-01 as ²²"4.5.2.3".

²²"EML (90) Ra-05" means Ra-05, ²²"Radium-226 in Tap Water, Urine, and Feces", in section 4.5.4, ²²"Radiochemical", in 27th ed. Referenced in Section 611.720.

²²"EML (90) Sr-01" means Sr-01, ²²"Strontium-89", in section 4.5.4, ²²"Radiochemical", in 27th ed. Referenced in Section 611.720.

²²"EML (90) Sr-02" means Sr-02, ²²"Strontium-90", in section 4.5.4, ²²"Radiochemical", in 27th ed. Referenced in Section 611.720.

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“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 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/emlegacy/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,

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~~“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.~~

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 (404-407-6339/404-407-6339) 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,~~~~

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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.

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)").

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~~“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 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)”~~).

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“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.

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.

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““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.

““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.

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~~“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.

~~“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

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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)”).

“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 41018 (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)”).

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“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 Concord Road, Billerica, MA 01821 (800-645-5476 or 781-533-6000) and USEPA, OGWDW (under “Ground Water Rule (PDF)” and “Revised ~~Total~~ 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

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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.

“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.

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“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 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.

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~~“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 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.

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“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 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

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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 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.

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“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.

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

“SM 4500-Cl D (93)” means Method 4500-Cl 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-Cl D (00)” means Method 4500-Cl D, “Chlorine (Residual)”, “Amperometric Titration 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-Cl E (89)” means Method 4500-Cl E, “Chlorine (Residual)”, “Low-Level Amperometric Titration Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-Cl E (93)” means Method 4500-Cl 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-Cl E (00)” means Method 4500-Cl 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-Cl F (89)” means Method 4500-Cl F, “Chlorine (Residual)”, “DPD Ferrous Titrimetric Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-Cl F (93)” means Method 4500-Cl 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-Cl F (00)” means Method 4500-Cl 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.

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

“SM 4500-Cl G (93)” means Method 4500-Cl 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-Cl G (00)” means Method 4500-Cl G, “Chlorine (Residual)”, “DPD Colorimetric Method”, only the version in

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the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

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

“SM 4500-Cl H (93)” means Method 4500-Cl 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-Cl H (00)” means Method 4500-Cl 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-Cl I (89)” means Method 4500-Cl I, “Chlorine (Residual)”, “Iodometric Electrode Method”, only the version in the 18th edition. Referenced in Section 611.531.

“SM 4500-Cl I (93)” means Method 4500-Cl 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-Cl I (00)” means Method 4500-Cl I, “Chlorine (Residual)”, “Iodometric Electrode Method”, only the version in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and 611.531.

“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.

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

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“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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“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.

“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.

“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.

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“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.

“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.

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“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 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.

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~~“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.

~~“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.

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“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.

“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.

“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.

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“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.

“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. 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.

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~~“(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 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.

~~“(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.

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“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.

“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.

“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.

“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.

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“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.

“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.

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“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.

“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.

“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.

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“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.

“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.

“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.

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“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, 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.

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“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.

“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.

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“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.

“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.

“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. Referenced in Section 611.720.

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“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.

“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.

“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.

~~“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.

~~“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.

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

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“Estimation of Bacterial Density”, only the version in the 23rd edition. Referenced in Section 611.531.

“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.

“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”,

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“Thermotolerant (Fecal) Coliform Procedure”, only the version in the 23rd edition. Referenced in Section 611.531.

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

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~~“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.

~~“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.

~~“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

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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.

“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.

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“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.

“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.

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“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 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

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Techniques²², 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 Wastewater²²” that contain approved methods are as follows:

13th edition, 1971
17th edition, 1989
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 Immunoassay²²” (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)²²” (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)²²”). 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 Wastewater²²” (December 1972), Industrial Method #129-71W.

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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~~ 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 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~~[Lakeside](#) 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

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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)”).

“USEPA Ra-04 (84)” means Method Ra-04, “Radiochemical Determination of Radium-226— De-emanation 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

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Beta Activity in Water²², 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.
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.

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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.

“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

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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.

“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.

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“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 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

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Postcolumn Reagent for Trace Bromate Analysis²², 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 "²²815R03007²²"); and USEPA, OGWDW (under "²²Disinfection Byproduct Rules (PDF)²²"). Referenced in Sections 611.381 and 611.382.

"²²USEPA 327.0 (05)²²" means "²²Method 327.0: Determination of Chlorine Dioxide and Chlorite Ion in Drinking Water Using Lissamine Green B and Horseradish Peroxidase with Detection by Visible Spectrophotometry²²", 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 "²²815R05008²²"); and USEPA, OGWDW (under "²²Disinfection Byproduct Rules (PDF)²²"). Referenced in Sections 611.381 and 611.531.

"²²USEPA 334.0 (09)²²" means "²²Method 334.0: Determination of Residual in Drinking Water Using an On-line Chlorine Analyzer²²", Version 1.0 (September 2009), USEPA, Office of Ground Water and Drinking Water, Technical Support Center, document number EPA 815/B-09/013. Available from NEMI; USEPA, NSCEP (search "²²815B09013²²"); and USEPA, OGWDW (under "²²Disinfection Byproduct Rules (PDF)²²"). Referenced in Sections 611.381 and 611.531.

"²²USEPA 335.4 (93)²²" means "²²Method 335.4: Determination of Total Cyanide by Semi-Automated Colorimetry²²", Revision 1.0 (August 1993), in USEPA Environmental Inorganic Methods (93). Referenced in Section 611.611.

BOARD NOTE: Also individually available from NEMI.

"²²USEPA 353.2 (93)²²" means "²²Method 353.2: Determination of Inorganic Anions by Ion Chromatography²²", Revision 2.0 (August 1993), in USEPA

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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 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.

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“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.

“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.

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“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 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”

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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.

"[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](#)

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Purge Gas²² (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 ²²"815R13002²²"); and USEPA, OGWDW (under ²²"Disinfection Byproduct Rules (PDF)²²" and ²²"Organic Contaminants (PDF)²²"). Referenced in Sections 611.381 and 611.645.

²²"USEPA 525.2 (95)²²" means ²²"Method 525.2: Determination of Organic Compounds in Drinking by Liquid-Liquid Extraction and Capillary Column Gas Chromatography/Mass Spectrometry²²", Revision 2.0 (1995), in USEPA Organic Methods— ²² Supplement III (95). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

²²"USEPA 525.3 (12)²²" means ²²"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)²²", Version 1.0 (February 2012), USEPA, National Exposure Research Laboratory, document number EPA 600/R-12/010. Available from USEPA, NSCEP (search ²²"600R12010²²") and USEPA, OGWDW (under ²²"Organic Contaminants (PDF)²²"). Referenced in Section 611.645.

²²"USEPA 531.1 (95)²²" means ²²"Method 531.1: Measurement of N-Methylcarbamoyloximes and N-Methylcarbamates in Water by Direct Aqueous Injection HPLC with Post Column Derivatization²²", Revision 3.1 (1995), in USEPA Organic Methods— ²² Supplement III (95). Referenced in Section 611.645.

BOARD NOTE: Also individually available from NEMI.

²²"USEPA 531.2 (01)²²" means ²²"Method 531.2: Measurement of N-Methylcarbamoyloximes and N-Methylcarbamates in Water by Direct Aqueous Injection HPLC with Postcolumn Derivatization²²", Revision 1.0 (September 2001), USEPA, Office of Ground Water and

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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 (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.

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“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 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.

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“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, 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

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Water²² (February 2018), USEPA, Office of Water, document number EPA 815/B-18/002. Also available from USEPA, NSCEP (search "815B18002²²") and USEPA, OGWDW (under "Radionuclides (PDF)²²").

"USEPA 901.0 (80)²²" means "Radioactive Cesium in Drinking Water— Method 901.0²²" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)²²").

"USEPA 901.1 (80)²²" means "Gamma Emitting Radionuclides in Drinking Water— Method 901.1²²" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)²²").

"USEPA 902.0 (80)²²" means "Radioactive Iodine in Drinking Water— Method 902.0²²" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

"USEPA 903.0 (80)²²" means "Alpha-Emitting Radium Isotopes in Drinking Water— Method 903.0²²" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)²²").

"USEPA 903.1 (80)²²" means "Radium-226 in Drinking Water Radon Emanation Technique— Method 903.1²²" (1980), in USEPA Radioactivity Methods (80). Referenced in Section 611.720.

BOARD NOTE: Also individually available from NEMI and USEPA, OGWDW (under "Radionuclides (PDF)²²").

"USEPA 904.0 (80)²²" means "Radium-228 in Drinking Water— Method 904.0²²" (1980), in USEPA

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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" (1980), 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.

"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,

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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 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

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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 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

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“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 (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

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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 (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"](#)).

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~~“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), 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~~

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Solutions²²" (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 "²²R473014²²"). Referenced in Section 611.720.

"USEPA IRM (76)" means "Interim Radiochemical Methodology for Drinking Water²²" (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 "²²600475008A²²"); and USEPA, OGWDW (under "²²Radionuclides (PDF)²²"). Referenced in Section 611.720.

"USEPA IRM (76), pages 1-3²²" means pages 1 through 3, "²²Gross Alpha and Beta Radioactivity in Drinking Water²²", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 4-5²²" means pages 4 through 5, "²²Radioactive Cesium in Drinking Water²²", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 6-8²²" means pages 6 through 8, "²²Radioactive Iodine in Drinking Water: Precipitation Method²²", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 9-12²²" means pages 9 through 12, "²²Radioactive Iodine in Drinking Water: Distillation Method²²", in USEPA IRM (76). Referenced in Section 611.720.

"USEPA IRM (76), pages 13-15²²" means pages 13 through 15, "²²Alpha-Emitting Radium Isotopes in Drinking Water: Precipitation Method²²", in USEPA IRM (76). Referenced in Section 611.720.

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~~“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 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.~~

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~~“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

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).

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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-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

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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,

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R-1110-76²², in ²²"Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²²", Book 5, Chapter A-5, ²²"Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

²²"USGS R-1111-76²²" means ²²"Radiocesium, dissolved, as cesium-137. Inorganic ion-exchange method— ²²beta counting, R-1111-76²²", in ²²"Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²²", Book 5, Chapter A-5, ²²"Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

²²"USGS R-1120-76²²" means ²²"Gross alpha and beta radioactivity, dissolved and suspended, R-1120-76²²", in ²²"Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²²", Book 5, Chapter A-5, ²²"Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

²²"USGS R-1140-76²²" means ²²"Radium, dissolved, as radium-226. Precipitation method, R-1140-76²²", in ²²"Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²²", Book 5, Chapter A-5, ²²"Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²" (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

²²"USGS R-1141-76²²" means ²²"Radium-226, dissolved. Radon emanation method, R-1141-76²²", in ²²"Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²²", Book 5, Chapter A-5, ²²"Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²" (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

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of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²², Book 5, Chapter A-5, ²²“Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

²²“USGS R-1182-76²²” means ²²“Uranium, dissolved, isotopic ratios. Alpha spectrometry— chemical separation, R-1182-76²²”, in ²²“Techniques of Water-Resource Investigation of the Water Resources Investigations of the United States Geological Survey²²”, Book 5, Chapter A-5, ²²“Methods for Determination of Radioactive Substances in Water and Fluvial Sediments²²” (1977). Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in Section 611.720.

²²“Waters B-1011 (87)²²” means ²²“Waters Test Method for Determination of Nitrite/Nitrate in Water Using Single Column Ion Chromatography²²”, 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 ²²“Inorganic Contaminants and Other Inorganic Constituents (PDF)²²”). 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 Programs²¹ 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.

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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

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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) 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~~ °C during transit.

- ii) SimPlate (00).

D) Turbidity

BOARD NOTE: Styrene divinyl benzene beads (e.g., AMCO-AEPA-~~1-1~~ 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).

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- iv) Laser Nephelometry (On-Line). Lovibond PTV 6000 (16), Mitchell M5271 (09), or Mitchell M5331 (16).
 - v) Laser Nephelometry (Portable). Lovibond TB 6000 (21).
 - ~~v~~vi) LED Nephelometry (On-Line). AMI Turbiwell (09), Lovibond PTV 1000 (16), Lovibond PTV 2000 (16), Mitchell M5331 (09), or Mitchell M5331 (16).
 - ~~vii~~vii) LED Nephelometry (Portable). Orion AQ4500 (09), Lovibond TB 3500 (21), Lovibond TB 5000 (21).
 - ~~viii~~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

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- A) Amperometric Titration. ASTM D1253-03, ASTM D1253-08, ASTM D1253-14, SM 4500-C1 D (89), SM 4500-C1 D (93), or SM 4500-C1 D (00).
 - B) Amperometric Titration (low level measurement). SM 4500-C1 E (89), 4500-C1 E (93), or 4500-C1 E (00).
 - C) DPD Ferrous Titrimetric. SM 4500-C1 F (89), 4500-C1 F (93), or 4500-C1 F (00).
 - D) DPD Colimetric. SM 4500-C1 G (89), 4500-C1 G (93), or 4500-C1 G (00), or Hach 10260 (13).
 - E) Iodometric Electrode. SM 4500-C1 I (89), 4500-C1 I (93), or 4500-C1 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

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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. 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-Cl D-93, 4500-Cl E-93, 4500-Cl F-93, 4500-Cl G-93, 4500-Cl H-93, and 4500-Cl I-93 appear in the 19th and 20th editions as Methods 4500-Cl D, 4500-Cl E, 4500-Cl F, 4500-Cl G, 4500-Cl H, and 4500-Cl I. In this Section, these appear as SM 4500-Cl D (93), SM 4500-Cl E (93), SM 4500-Cl F (93), SM 4500-Cl G (93), SM 4500-Cl H (93), and SM 4500-Cl I (93).

Standard Methods Online, Methods 4500-Cl D-00, 4500-Cl E-00, 4500-Cl F-00, 4500-Cl G-00, 4500-Cl H-00, and 4500-Cl I-00 appear in the 21st, 22nd, and 23rd editions as Methods 4500-Cl D, 4500-Cl E, 4500-Cl F, 4500-Cl G, 4500-Cl H, and 4500-Cl I. In this Section, these appear as SM 4500-Cl D (00), SM 4500-Cl E (00), SM 4500-Cl F (00), SM 4500-Cl G (00), SM 4500-Cl H (00), and SM 4500-Cl I (00).

Standard Methods Online, Methods 4500-ClO₂ C-93, 4500-ClO₂ D-93, and 4500-ClO₂ E-93 appear in the 19th and 20th editions as Methods 4500-ClO₂ C, 4500-ClO₂ D, and 4500-ClO₂ E. In this Section, these appear as SM 4500-ClO₂ C (93), SM 4500-ClO₂ D (93), and SM 4500-ClO₂ E (93).

Standard Methods Online, Methods 4500-ClO₂ C-00 and 4500-ClO₂ E-00 appear in the 19th and 20th editions as Methods 4500-ClO₂ C and 4500-ClO₂ E. In this Section, these appear as SM 4500-ClO₂ C (00) and SM 4500-ClO₂ 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).

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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 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
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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).

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- 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).
 - 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

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- 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).
 - 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

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- 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).
- 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).

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- 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).
 - 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).

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- 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):
 - 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).

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- 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).
- 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

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- 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 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

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- 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).
 - 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).

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- 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 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).

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- 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).
- 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).

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- 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.
 - 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.

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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).
- 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 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).

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- 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).
 - 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 asalachlors)

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- 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 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

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- 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).
 - 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).

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- 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 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

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- 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 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.

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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.
 - 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

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- 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.
 - C) ICP-MS Methods. ASTM D5673-03, ASTM D5673-05, ASTM D5673-10, ASTM D5673-16; SM 3125 (97); or USEPA 200.8 (94).

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- 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/μg of uranium must be used. This conversion factor is based on the 1:1 activity ratio of ²³⁴U and ²³⁸U 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.
- 8) Radioactive Strontium-89 and ~~90~~90. Radiochemical Methods. EML (90) Sr-01; EML (97) Sr-01; EML (90) Sr-02; EML (97) Sr-02; SM 303

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(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:

Contaminant	Detection Limit
Gross alpha particle activity	3 pCi/l
Radium-226	1 pCi/l

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~~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 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).

Summary report:	
Litera Compare for Word 11.2.0.54 Document comparison done on 8/2/2023 10:55:20 AM	
Style name: Default Style	
Intelligent Table Comparison: Active	
Original filename: 35-611RG-P Agency.docx	
Modified filename: 35-611RG-P r01 (47-31).docx	
Changes:	
Add	3690
Delete	3699
Move From	0
<u>Move To</u>	0
<u>Table Insert</u>	2
Table Delete	0
<u>Table moves to</u>	0
Table moves from	0
Embedded Graphics (Visio, ChemDraw, Images etc.)	0
Embedded Excel	0
Format changes	0
Total Changes:	7391

First Notice

JCAR350611-2311586r01

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144 SUBPART N: INORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

145

146 Section

- 147 611.591 Violation of a State MCL
- 148 611.592 Frequency of State Monitoring
- 149 611.600 Applicability
- 150 611.601 Monitoring Frequency
- 151 611.602 Asbestos Monitoring Frequency
- 152 611.603 Inorganic Monitoring Frequency
- 153 611.604 Nitrate Monitoring
- 154 611.605 Nitrite Monitoring
- 155 611.606 Confirmation Samples
- 156 611.607 More Frequent Monitoring and Confirmation Sampling
- 157 611.608 Additional Optional Monitoring
- 158 611.609 Determining Compliance
- 159 611.610 Inorganic Monitoring Times
- 160 611.611 Inorganic Analysis
- 161 611.612 Monitoring Requirements for Old Inorganic MCLs
- 162 611.630 Special Monitoring for Sodium
- 163 611.631 Special Monitoring for Inorganic Chemicals (Repealed)

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- 169 611.641 Old MCLs
- 170 611.645 Analytical Methods for Organic Chemical Contaminants
- 171 611.646 Phase I, Phase II, and Phase V Volatile Organic Contaminants
- 172 611.647 Sampling for Phase I Volatile Organic Contaminants (Repealed)

- 173 611.648 Phase II, Phase IIB, and Phase V Synthetic Organic Contaminants
- 174 611.650 Monitoring for 36 Contaminants (Repealed)
- 175 611.657 Analytical Methods for 36 Contaminants (Repealed)
- 176 611.658 Special Monitoring for Organic Chemicals (Repealed)

177

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- 181 611.680 Sampling, Analytical, and other Requirements (Repealed)
- 182 611.683 Reduced Monitoring Frequency (Repealed)
- 183 611.684 Averaging (Repealed)
- 184 611.685 Analytical Methods (Repealed)
- 185 611.686 Modification to System (Repealed)
- 186 611.687 Sampling for Maximum THM Potential (Repealed)
- 187 611.688 Applicability Dates (Repealed)

188

189 SUBPART Q: RADIOLOGICAL MONITORING AND ANALYTICAL REQUIREMENTS

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- 192 611.720 Analytical Methods
- 193 611.731 Gross Alpha
- 194 611.732 Beta Particle and Photon Radioactivity
- 195 611.733 General Monitoring and Compliance Requirements

196

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- 203 611.742 Disinfection Profiling and Benchmarking
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- 205 611.744 Filtration Sampling Requirements
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- 211 611.800 General Requirements and Applicability
- 212 611.801 Sanitary Surveys for GWS Suppliers
- 213 611.802 Groundwater Source Microbial Monitoring and Analytical Methods
- 214 611.803 Treatment Technique Requirements for GWS Suppliers
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216 611.805 Reporting and Recordkeeping for GWS Suppliers

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222 611.831 Monthly Operating Report (Repealed)

223 611.832 Notice by Agency (Repealed)

224 611.833 Cross Connection Reporting (Repealed)

225 611.840 Reporting

226 611.851 Reporting MCL, MRDL, and other Violations (Repealed)

227 611.852 Reporting other Violations (Repealed)

228 611.853 Notice to New Billing Units (Repealed)

229 611.854 General Content of Public Notice (Repealed)

230 611.855 Mandatory Health Effects Language (Repealed)

231 611.856 Fluoride Notice (Repealed)

232 611.858 Fluoride Secondary Standard (Repealed)

233 611.860 Record Maintenance

234 611.870 List of 36 Contaminants (Repealed)

235

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237

238 Section

239 611.881 Purpose and Applicability

240 611.882 Compliance Dates

241 611.883 Content of the Reports

242 611.884 Required Additional Health Information

243 611.885 Report Delivery and Recordkeeping

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245 SUBPART V: PUBLIC NOTIFICATION OF DRINKING WATER VIOLATIONS

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248 611.901 General Public Notification Requirements

249 611.902 Tier 1 Public Notice: Form, Manner, and Frequency of Notice

250 611.903 Tier 2 Public Notice: Form, Manner, and Frequency of Notice

251 611.904 Tier 3 Public Notice: Form, Manner, and Frequency of Notice

252 611.905 Content of the Public Notice

253 611.906 Notice to New Billing Units or New Customers

254 611.907 Special Notice of the Availability of Unregulated Contaminant Monitoring

255 Results

256 611.908 Special Notice for Exceedance of the Fluoride Secondary Standard

257 611.909 Special Notice for Nitrate Exceedances above the MCL by a Non-Community

258 Water System

259 611.910 Notice by the Agency on Behalf of a PWS
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262 SUBPART W: INITIAL DISTRIBUTION SYSTEM EVALUATIONS

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265 611.920 General Requirements

266 611.921 Standard Monitoring

267 611.922 System-Specific Studies

268 611.923 40/30 Certification

269 611.924 Very Small System Waivers

270 611.925 Subpart Y Compliance Monitoring Location Recommendations

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272 SUBPART X: ENHANCED FILTRATION AND DISINFECTION –
273 SYSTEMS SERVING FEWER THAN 10,000 PEOPLE

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276 611.950 General Requirements

277 611.951 Finished Water Reservoirs

278 611.952 Additional Watershed Control Requirements for Unfiltered Systems

279 611.953 Disinfection Profile

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281 611.955 Combined Filter Effluent Turbidity Limits

282 611.956 Individual Filter Turbidity Requirements

283 611.957 Reporting and Recordkeeping Requirements

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285 SUBPART Y: STAGE 2 DISINFECTION BYPRODUCTS REQUIREMENTS

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288 611.970 General Requirements

289 611.971 Routine Monitoring

290 611.972 Subpart Y Monitoring Plan

291 611.973 Reduced Monitoring

292 611.974 Additional Requirements for Consecutive Systems

293 611.975 Conditions Requiring Increased Monitoring

294 611.976 Operational Evaluation Levels

295 611.977 Requirements for Remaining on Reduced TTHM and HAA5 Monitoring Based
296 on Subpart I Results

297 611.978 Requirements for Remaining on Increased TTHM and HAA5 Monitoring Based
298 on Subpart I Results

299 611.979 Reporting and Recordkeeping Requirements

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301 SUBPART Z: ENHANCED TREATMENT FOR CRYPTOSPORIDIUM

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303 Section

304 611.1000 General Requirements

305 611.1001 Source Water Monitoring Requirements: Source Water Monitoring

306 611.1002 Source Water Monitoring Requirements: Sampling Schedules

307 611.1003 Source Water Monitoring Requirements: Sampling Locations

308 611.1004 Source Water Monitoring Requirements: Analytical Methods

309 611.1005 Source Water Monitoring Requirements: Approved Laboratories

310 611.1006 Source Water Monitoring Requirements: Reporting Source Water Monitoring

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312 611.1007 Source Water Monitoring Requirements: Grandfathering Previously Collected

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314 611.1008 Disinfection Profiling and Benchmarking Requirements: Requirements When

315 Making a Significant Change in Disinfection Practice

316 611.1009 Disinfection Profiling and Benchmarking Requirements: Developing the

317 Disinfection Profile and Benchmark

318 611.1010 Treatment Technique Requirements: Bin Classification for Filtered System

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320 611.1011 Treatment Technique Requirements: Filtered System Additional

321 Cryptosporidium Treatment Requirements

322 611.1012 Treatment Technique Requirements: Unfiltered System Cryptosporidium

323 Treatment Requirements

324 611.1013 Treatment Technique Requirements: Schedule for Compliance with

325 Cryptosporidium Treatment Requirements

326 611.1014 Treatment Technique Requirements: Requirements for Uncovered Finished

327 Water Storage Facilities

328 611.1015 Requirements for Microbial Toolbox Components: Microbial Toolbox Options

329 for Meeting Cryptosporidium Treatment Requirements

330 611.1016 Requirements for Microbial Toolbox Components: Source Toolbox Components

331 611.1017 Requirements for Microbial Toolbox Components: Pre-Filtration Treatment

332 Toolbox Components

333 611.1018 Requirements for Microbial Toolbox Components: Treatment Performance

334 Toolbox Components

335 611.1019 Requirements for Microbial Toolbox Components: Additional Filtration Toolbox

336 Components

337 611.1020 Requirements for Microbial Toolbox Components: Inactivation Toolbox

338 Components

339 611.1021 Reporting and Recordkeeping Requirements: Reporting Requirements

340 611.1022 Reporting and Recordkeeping Requirements: Recordkeeping Requirements

341 611.1023 Requirements to Respond to Significant Deficiencies Identified in Sanitary

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344

SUBPART AA: REVISED TOTAL COLIFORM RULE

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346 Section
347 611.1051 General
348 611.1052 Analytical Methods and Laboratory Certification
349 611.1053 General Monitoring Requirements for all PWSs
350 611.1054 Routine Monitoring Requirements for Non-CWSs That Serve 1,000 or Fewer
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354 611.1056 Routine Monitoring Requirements for Subpart B Systems That Serve 1,000 or
355 Fewer People
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357 611.1058 Repeat Monitoring and E. coli Requirements
358 611.1059 Coliform Treatment Technique Triggers and Assessment Requirements for
359 Protection Against Potential Fecal Contamination
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363 611.APPENDIX A Regulated Contaminants
364 611.APPENDIX B Percent Inactivation of G. Lamblia Cysts
365 611.APPENDIX C Common Names of Organic Chemicals
366 611.APPENDIX D Defined Substrate Method for the Simultaneous Detection of Total
367 Coliforms and Escherichia Coli from Drinking Water (Repealed)
368 611.APPENDIX E Mandatory Lead Public Education Information for Community Water
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370 611.APPENDIX F Mandatory Lead Public Education Information for Non-Transient Non-
371 Community Water Systems
372 611.APPENDIX G NPDWR Violations and Situations Requiring Public Notice
373 611.APPENDIX H Standard Health Effects Language for Public Notification
374 611.APPENDIX I Acronyms Used in Public Notification Regulation
375 611.TABLE A Total Coliform Monitoring Frequency (Repealed)
376 611.TABLE B Fecal or Total Coliform Density Measurements
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378 611.TABLE D Number of Lead and Copper Monitoring Sites
379 611.TABLE E Lead and Copper Monitoring Start Dates (Repealed)
380 611.TABLE F Number of Water Quality Parameter Sampling Sites
381 611.TABLE G Summary of Section 611.357 Monitoring Requirements for Water Quality
382 Parameters
383 611.TABLE H CT Values (mg·min/ℓ) for Cryptosporidium Inactivation by Chlorine
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386 611.TABLE J UV Dose Table for Cryptosporidium, Giardia lamblia, and Virus
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388 611.TABLE Z Federal Effective Dates

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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 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 in R18-9 at 42 Ill. Reg. 9316, effective May 29, 2018; amended in R18-17 at 43 Ill. Reg. 8206, 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 47 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.

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

437
438 ASTM Methods. Available from ASTM International, 100 Barr Harbor
439 Drive, West Conshohocken, PA 19428-2959 (610-832-9585 or
440 www.astm.org/Standard/standards-and-publications).

441
442 "ASTM D511-93 A" means "Standard Test Methods for Calcium
443 and Magnesium in Water", "Test Method A – Complexometric
444 Titration", approved 1993, referenced in Section 611.611.

445
446 "ASTM D511-03 A" means "Standard Test Methods for Calcium
447 and Magnesium in Water", "Test Method A – Complexometric
448 Titration", approved 2003, referenced in Section 611.611.

449
450 "ASTM D511-09 A" means "Standard Test Methods for Calcium
451 and Magnesium in Water", "Test Method A – Complexometric
452 Titration", approved 2009, referenced in Section 611.611.

453
454 "ASTM D511-14 A" means "Standard Test Methods for Calcium
455 and Magnesium in Water", "Test Method A – Complexometric
456 Titration", approved 2014, referenced in Section 611.611.

457
458 "ASTM D511-93 B" means "Standard Test Methods for Calcium
459 and Magnesium in Water", "Test Method B – Atomic Absorption
460 Spectrophotometric", approved 1993, referenced in Section
461 611.611.

462
463 "ASTM D511-03 B" means "Standard Test Methods for Calcium
464 and Magnesium in Water", "Test Method B – Atomic Absorption
465 Spectrophotometric", approved 2003, referenced in Section
466 611.611.

467
468 "ASTM D511-09 B" means "Standard Test Methods for Calcium
469 and Magnesium in Water", "Test Method B – Atomic Absorption
470 Spectrophotometric", approved 2009, referenced in Section
471 611.611.

472

473 "ASTM D511-14 B" means "Standard Test Methods for Calcium
474 and Magnesium in Water", "Test Method B – Atomic Absorption
475 Spectrophotometric", approved 2014, referenced in Section
476 611.611.

477
478 "ASTM D515-88 A" means "Standard Test Methods for
479 Phosphorus in Water", "Test Method A – Colorimetric Ascorbic
480 Acid Reduction", approved August 19, 1988, referenced in Section
481 611.611.

482
483 "ASTM D859-94" means "Standard Test Method for Silica in
484 Water", approved 1994, referenced in Section 611.611.

485
486 "ASTM D859-00" means "Standard Test Method for Silica in
487 Water", approved 2000, referenced in Section 611.611.

488
489 "ASTM D859-05" means "Standard Test Method for Silica in
490 Water", approved 2005, referenced in Section 611.611.

491
492 "ASTM D859-10" means "Standard Test Method for Silica in
493 Water", approved 2010, referenced in Section 611.611.

494
495 "ASTM D859-16" means "Standard Test Method for Silica in
496 Water", approved 2016, referenced in Section 611.611.

497
498 "ASTM D1067-92 B" means "Standard Test Methods for Acidity
499 or Alkalinity in Water", "Test Method B – Electrometric or Color-
500 Change Titration", approved May 15, 1992, referenced in Section
501 611.611.

502
503 "ASTM D1067-02 B" means "Standard Test Methods for Acidity
504 or Alkalinity in Water", "Test Method B – Electrometric or Color-
505 Change Titration", approved in 2002, referenced in Section
506 611.611.

507
508 "ASTM D1067-06 B" means "Standard Test Methods for Acidity
509 or Alkalinity in Water", "Test Method B – Electrometric or Color-
510 Change Titration", approved in 2006, referenced in Section
511 611.611.

512
513 "ASTM D1067-11 B" means "Standard Test Methods for Acidity
514 or Alkalinity in Water", "Test Method B – Electrometric or Color-

515 Change Titration", approved in 2011, referenced in Section
516 611.611.

517
518 "ASTM D1067-16 B" means "Standard Test Methods for Acidity
519 or Alkalinity in Water", "Test Method B – Electrometric or Color-
520 Change Titration", approved in 2006, referenced in Section
521 611.611.

522
523 "ASTM D1125-95 (1999) A" means "Standard Test Methods for
524 Electrical Conductivity and Resistivity of Water", "Test Method A
525 – Field and Routine Laboratory Measurement of Static (Non-
526 Flowing) Samples", approved 1995, reapproved 1999, referenced
527 in Section 611.611.

528
529 "ASTM D1179-93 B" means "Standard Test Methods for Fluoride
530 in Water", "Test Method B – Ion Selective Electrode", approved
531 1993, referenced in Section 611.611.

532
533 "ASTM D1179-99 B" means "Standard Test Methods for Fluoride
534 in Water", "Test Method B – Ion Selective Electrode", approved
535 1999, referenced in Section 611.611.

536
537 "ASTM D1179-04 B" means "Standard Test Methods for Fluoride
538 in Water", "Test Method B – Ion Selective Electrode", approved
539 2004, referenced in Section 611.611.

540
541 "ASTM D1179-10 B" means "Standard Test Methods for Fluoride
542 in Water", "Test Method B – Ion Selective Electrode", approved
543 2010, referenced in Section 611.611.

544
545 "ASTM D1179-16 B" means "Standard Test Methods for Fluoride
546 in Water", "Test Method B – Ion Selective Electrode", approved
547 2010, referenced in Section 611.611.

548
549 "ASTM D1253-86" means "Standard Test Method for Residual
550 Chlorine in Water", reapproved 1992, referenced in Section
551 611.381.

552
553 "ASTM D1253-96" means "Standard Test Method for Residual
554 Chlorine in Water", approved 1996, referenced in Section 611.381.
555

556 "ASTM D1253-03" means "Standard Test Method for Residual
557 Chlorine in Water", approved 2003, referenced in Sections 611.381
558 and 611.531.

559
560 "ASTM D1253-08" means "Standard Test Method for Residual
561 Chlorine in Water", approved 2008, referenced in Sections 611.381
562 and 611.531.

563
564 "ASTM D1253-14" means "Standard Test Method for Residual
565 Chlorine in Water", approved 2014, referenced in Sections 611.381
566 and 611.531.

567
568 "ASTM D1293-95" means "Standard Test Methods for pH of
569 Water", approved 1995, referenced in Section 611.611.

570
571 "ASTM D1293-99" means "Standard Test Methods for pH of
572 Water", approved 1999, referenced in Section 611.611.

573
574 "ASTM D1293-12" means "Standard Test Methods for pH of
575 Water", approved 2012, referenced in Section 611.611.

576
577 "ASTM D1688-95 A" means "Standard Test Methods for Copper
578 in Water", "Test Method A – Atomic Absorption, Direct",
579 approved 1995, referenced in Section 611.611.

580
581 "ASTM D1688-02 A" means "Standard Test Methods for Copper
582 in Water", "Test Method A – Atomic Absorption, Direct",
583 approved 2002, referenced in Section 611.611.

584
585 "ASTM D1688-07 A" means "Standard Test Methods for Copper
586 in Water", "Test Method A – Atomic Absorption, Direct",
587 approved 2007, referenced in Section 611.611.

588
589 "ASTM D1688-12 A" means "Standard Test Methods for Copper
590 in Water", "Test Method A – Atomic Absorption, Direct",
591 approved 2012, referenced in Section 611.611.

592
593 "ASTM D1688-95 C" means "Standard Test Methods for Copper
594 in Water", "Test Method C – Atomic Absorption, Graphite
595 Furnace", approved 1995, referenced in Section 611.611.

596

597 "ASTM D1688-02 C" means "Standard Test Methods for Copper
598 in Water", "Test Method C – Atomic Absorption, Graphite
599 Furnace", approved 2002, referenced in Section 611.611.

600
601 "ASTM D1688-07 C" means "Standard Test Methods for Copper
602 in Water", "Test Method C – Atomic Absorption, Graphite
603 Furnace", approved 2007, referenced in Section 611.611.

604
605 "ASTM D1688-12 C" means "Standard Test Methods for Copper
606 in Water", "Test Method C – Atomic Absorption, Graphite
607 Furnace", approved 2012, referenced in Section 611.611.

608
609 "ASTM D2036-98 A" means "Standard Test Methods for Cyanide
610 in Water", "Test Method A – Total Cyanides after Distillation",
611 approved 1998, referenced in Section 611.611.

612
613 "ASTM D2036-06 A" means "Standard Test Methods for Cyanide
614 in Water", "Test Method A – Total Cyanides after Distillation",
615 approved 2006, referenced in Section 611.611.

616
617 "ASTM D2036-98 B" means "Standard Test Methods for Cyanide
618 in Water", "Test Method B – Cyanides Amenable to Chlorination
619 by Difference", approved 1998, referenced in Section 611.611.

620
621 "ASTM D2036-06 B" means "Standard Test Methods for Cyanide
622 in Water", "Test Method B – Cyanides Amenable to Chlorination
623 by Difference", approved 2006, referenced in Section 611.611.

624
625 "ASTM D2459-72" means "Standard Test Method for Gamma
626 Spectrometry in Water", approved July 28, 1972, discontinued
627 1988, referenced in Section 611.720.

628
629 "ASTM D2460-97" means "Standard Test Method for
630 Radionuclides of Radium in Water", approved 1997, referenced in
631 Section 611.720.

632
633 "ASTM D2460-07" means "Standard Test Method for
634 Radionuclides of Radium in Water", approved 2007, referenced in
635 Section 611.720.

636
637 "ASTM D2907-97" means "Standard Test Methods for
638 Microquantities of Uranium in Water by Fluorometry", approved
639 1997, referenced in Section 611.720.

640
641 "ASTM D2972-97 B" means "Standard Test Methods for Arsenic
642 in Water", "Test Method B – Atomic Absorption, Hydride
643 Generation", approved 1997, referenced in Section 611.611.
644

645 "ASTM D2972-03 B" means "Standard Test Methods for Arsenic
646 in Water", "Test Method B – Atomic Absorption, Hydride
647 Generation", approved 2003, referenced in Section 611.611.
648

649 "ASTM D2972-15 B" means "Standard Test Methods for Arsenic
650 in Water", "Test Method B – Atomic Absorption, Hydride
651 Generation", approved 2015, referenced in Section 611.611.
652

653 "ASTM D2972-97 C" means "Standard Test Methods for Arsenic
654 in Water", "Test Method C – Atomic Absorption, Graphite
655 Furnace", approved 1997, referenced in Section 611.611.
656

657 "ASTM D2972-03 C" means "Standard Test Methods for Arsenic
658 in Water", "Test Method C – Atomic Absorption, Graphite
659 Furnace", approved 2003, referenced in Section 611.611.
660

661 "ASTM D2972-15 C" means "Standard Test Methods for Arsenic
662 in Water", "Test Method C – Atomic Absorption, Graphite
663 Furnace", approved 2015, referenced in Section 611.611.
664

665 "ASTM D3223-97" means "Standard Test Method for Total
666 Mercury in Water", approved 1997, referenced in Section 611.611.
667

668 "ASTM D3223-02" means "Standard Test Method for Total
669 Mercury in Water", approved 2002, referenced in Section 611.611.
670

671 "ASTM D3223-12" means "Standard Test Method for Total
672 Mercury in Water", approved 2012, referenced in Section 611.611.
673

674 "ASTM D3454-97" means "Standard Test Method for Radium-226
675 in Water", approved 1997, referenced in Section 611.720.
676

677 "ASTM D3454-05" means "Standard Test Method for Radium-226
678 in Water", approved 2005, referenced in Section 611.720.
679

680 "ASTM D3559-96 D" means "Standard Test Methods for Lead in
681 Water", "Test Method D – Atomic Absorption, Graphite Furnace",
682 approved August 6, 1990, referenced in Section 611.611.

683
684 "ASTM D3559-03 D" means "Standard Test Methods for Lead in
685 Water", "Test Method D – Atomic Absorption, Graphite Furnace",
686 approved 2003, referenced in Section 611.611.
687
688 "ASTM D3559-08 D" means "Standard Test Methods for Lead in
689 Water", "Test Method D – Atomic Absorption, Graphite Furnace",
690 approved 2008, referenced in Section 611.611.
691
692 "ASTM D3559-15 D" means "Standard Test Methods for Lead in
693 Water", "Test Method D – Atomic Absorption, Graphite Furnace",
694 approved 2015, referenced in Section 611.611.
695
696 "ASTM D3645-97 B" means "Standard Test Methods for
697 Beryllium in Water", "Method B – Atomic Absorption, Graphite
698 Furnace", approved 1997, referenced in Section 611.611.
699
700 "ASTM D3645-03 B" means "Standard Test Methods for
701 Beryllium in Water", "Method B – Atomic Absorption, Graphite
702 Furnace", approved 2003, referenced in Section 611.611.
703
704 "ASTM D3645-08 B" means "Standard Test Methods for
705 Beryllium in Water", "Method B – Atomic Absorption, Graphite
706 Furnace", approved 2008, referenced in Section 611.611.
707
708 "ASTM D3645-15 B" means "Standard Test Methods for
709 Beryllium in Water", "Method B – Atomic Absorption, Graphite
710 Furnace", approved 2015, referenced in Section 611.611.
711
712 "ASTM D3649-91" means "Standard Test Method for High-
713 Resolution Gamma-Ray Spectrometry of Water", approved 1991,
714 referenced in Section 611.720.
715
716 "ASTM D3649-98a" means "Standard Test Method for High-
717 Resolution Gamma-Ray Spectrometry of Water", approved 1998,
718 referenced in Section 611.720.
719
720 "ASTM D3649-06" means "Standard Test Method for High-
721 Resolution Gamma-Ray Spectrometry of Water", approved 2006,
722 referenced in Section 611.720.
723
724 "ASTM D3697-92" means "Standard Test Method for Antimony in
725 Water", approved 1992, referenced in Section 611.611.

726
727 "ASTM D3697-02" means "Standard Test Method for Antimony in
728 Water", approved 2002, referenced in Section 611.611.
729
730 "ASTM D3697-07" means "Standard Test Method for Antimony in
731 Water", approved 2007, referenced in Section 611.611.
732
733 "ASTM D3697-12" means "Standard Test Method for Antimony in
734 Water", approved 2012, referenced in Section 611.611.
735
736 "ASTM D3859-98 A" means "Standard Test Methods for
737 Selenium in Water", "Method A – Atomic Absorption, Hydride
738 Method", approved 1998, referenced in Section 611.611.
739
740 "ASTM D3859-03 A" means "Standard Test Methods for
741 Selenium in Water", "Method A – Atomic Absorption, Hydride
742 Method", approved 2003, referenced in Section 611.611.
743
744 "ASTM D3859-08 A" means "Standard Test Methods for
745 Selenium in Water", "Method A – Atomic Absorption, Hydride
746 Method", approved 2008, referenced in Section 611.611.
747
748 "ASTM D3859-15 A" means "Standard Test Methods for
749 Selenium in Water", "Method A – Atomic Absorption, Hydride
750 Method", approved 2015, referenced in Section 611.611.
751
752 "ASTM D3859-98 B" means "Standard Test Methods for Selenium
753 in Water", "Method B – Atomic Absorption, Graphite Furnace",
754 approved 1998, referenced in Section 611.611.
755
756 "ASTM D3859-03 B" means "Standard Test Methods for Selenium
757 in Water", "Method B – Atomic Absorption, Graphite Furnace",
758 approved 2003, referenced in Section 611.611.
759
760 "ASTM D3859-08 B" means "Standard Test Methods for Selenium
761 in Water", "Method B – Atomic Absorption, Graphite Furnace",
762 approved 2008, referenced in Section 611.611.
763
764 "ASTM D3859-15 B" means "Standard Test Methods for Selenium
765 in Water", "Method B – Atomic Absorption, Graphite Furnace",
766 approved 2015, referenced in Section 611.611.
767

768 "ASTM D3867-90 A" means "Standard Test Methods for Nitrite-
769 Nitrate in Water", "Test Method A – Automated Cadmium
770 Reduction", approved 1990, referenced in Section 611.611.
771

772 "ASTM D3867-90 B" means "Standard Test Methods for Nitrite-
773 Nitrate in Water", "Test Method B – Manual Cadmium
774 Reduction", approved January 10, 1990, referenced in Section
775 611.611.
776

777 "ASTM D3972-97" means "Standard Test Method for Isotopic
778 Uranium in Water by Radiochemistry", approved 1997, referenced
779 in Section 611.720.
780

781 "ASTM D3972-02" means "Standard Test Method for Isotopic
782 Uranium in Water by Radiochemistry", approved 2002, referenced
783 in Section 611.720.
784

785 "ASTM D3972-09" means "Standard Test Method for Isotopic
786 Uranium in Water by Radiochemistry", approved 2009, referenced
787 in Section 611.720.
788

789 "ASTM D4107-91" means "Standard Test Method for Tritium in
790 Drinking Water", approved 1991, referenced in Section 611.720.
791

792 "ASTM D4107-98" means "Standard Test Method for Tritium in
793 Drinking Water", approved 1998, referenced in Section 611.720.
794

795 "ASTM D4107-08" means "Standard Test Method for Tritium in
796 Drinking Water", approved 2008, referenced in Section 611.720.
797

798 "ASTM D4107-20" means "Standard Test Method for Tritium in
799 Drinking Water", approved 2020, referenced in Section 611.720.
800

801 "ASTM D4327-97" means "Standard Test Method for Anions in
802 Water by Ion Chromatography", approved 1997, referenced in
803 Section 611.611.
804

805 "ASTM D4327-03" means "Standard Test Method for Anions in
806 Water by Ion Chromatography", approved 2003, referenced in
807 Section 611.611.
808

809 "ASTM D4327-11" means "Standard Test Method for Anions in
810 Water by Ion Chromatography", approved 2011, referenced in
811 Section 611.611.
812
813 "ASTM D4785-93" means "Standard Test Method for Low-Level
814 Iodine-131 in Water", approved 1993, referenced in Section
815 611.720.
816
817 "ASTM D4785-00a" means "Standard Test Method for Low-Level
818 Iodine-131 in Water", approved 2000, referenced in Section
819 611.720.
820
821 "ASTM D4785-08" means "Standard Test Method for Low-Level
822 Iodine-131 in Water", approved 2008, referenced in Section
823 611.720.
824
825 "ASTM D4785-20" means "Standard Test Method for Low-Level
826 Iodine-131 in Water", approved 2020, referenced in Section
827 611.720.
828
829 "ASTM D5174-97" means "Standard Test Method for Trace
830 Uranium in Water by Pulsed-Laser Phosphorimetry", approved
831 1997, referenced in Section 611.720.
832
833 "ASTM D5174-02" means "Standard Test Method for Trace
834 Uranium in Water by Pulsed-Laser Phosphorimetry", approved
835 2002, referenced in Section 611.720.
836
837 "ASTM D5174-07" means "Standard Test Method for Trace
838 Uranium in Water by Pulsed-Laser Phosphorimetry", approved
839 2007, referenced in Section 611.720.
840
841 "ASTM D5317-93" means "Standard Test Method for
842 Determination of Chlorinated Organic Acid Compounds in Water
843 by Gas Chromatography with an Electron Capture Detector",
844 approved 1993, referenced in Section 611.645.
845
846 "ASTM D5317-98(2003)" means "Standard Test Method for
847 Determination of Chlorinated Organic Acid Compounds in Water
848 by Gas Chromatography with an Electron Capture Detector",
849 approved 1998 (reapproved 2003), referenced in Section 611.645.
850

851 ["ASTM D5317-20" means "Standard Test Method for](#)
852 [Determination of Chlorinated Organic Acid Compounds in Water](#)
853 [by Gas Chromatography with an Electron Capture Detector"](#),
854 [approved 2020, referenced in Section 611.645.](#)
855

856 "ASTM D5673-03" means "Standard Test Method for Elements in
857 Water by Inductively Coupled Plasma-Mass Spectrometry",
858 approved 2003, referenced in Section 611.720.
859

860 "ASTM D5673-05" means "Standard Test Method for Elements in
861 Water by Inductively Coupled Plasma-Mass Spectrometry",
862 approved 2005, referenced in Section 611.720.
863

864 "ASTM D5673-10" means "Standard Test Method for Elements in
865 Water by Inductively Coupled Plasma-Mass Spectrometry",
866 approved 2010, referenced in Section 611.720.
867

868 "ASTM D5673-16" means "Standard Test Method for Elements in
869 Water by Inductively Coupled Plasma-Mass Spectrometry",
870 approved 2016, referenced in Section 611.720.
871

872 "ASTM D6239-09" means "Standard Test Method for Uranium in
873 Drinking Water by High-Resolution Alpha-Liquid-Scintillation
874 Spectrometry", approved 2009, referenced in Section 611.720.
875

876 "ASTM D6508-00(2005)" means "Standard Test Method for
877 Determination of Dissolved Inorganic Anions in Aqueous Matrices
878 Using Capillary Ion Electrophoresis and Chromate Electrolyte",
879 approved 2000 (revised 2005), referenced in Section 611.611.
880

881 "ASTM D6508-15" means "Standard Test Method for
882 Determination of Dissolved Inorganic Anions in Aqueous Matrices
883 Using Capillary Ion Electrophoresis and Chromate Electrolyte",
884 approved 2015, referenced in Section 611.611.
885

886 "ASTM D6581-00" means "Standard Test Method for Bromate,
887 Bromide, Chlorate, and Chlorite in Drinking Water by Chemically
888 Suppressed Ion Chromatography", approved 2000, referenced in
889 Section 611.381.
890

891 "ASTM D6581-08 A" means "Standard Test Method for Bromate,
892 Bromide, Chlorate, and Chlorite in Drinking Water by Suppressed
893 Ion Chromatography", "Test Method A – Chemically Suppressed

894 Ion Chromatography", approved 2008, referenced in Section
895 611.381.

896
897 "ASTM D6581-08 B" means "Standard Test Method for Bromate,
898 Bromide, Chlorate, and Chlorite in Drinking Water by Suppressed
899 Ion Chromatography", "Test Method B – Electrolytically
900 Suppressed Ion Chromatography", approved 2008, referenced in
901 Section 611.381.

902
903 "ASTM D6888-04" means "Standard Test Method for Available
904 Cyanide with Ligand Displacement and Flow Injection Analysis
905 (FIA) Utilizing Gas Diffusion Separation and Amperometric
906 Detection", approved 2004, referenced in Section 611.611.

907
908 "ASTM D6919-03" means "Standard Test Method for
909 Determination of Dissolved Alkali and Alkaline Earth Cations and
910 Ammonium in Water and Wastewater by Ion Chromatography",
911 approved 2003, referenced in Section 611.611.

912
913 "ASTM D6919-09" means "Standard Test Method for
914 Determination of Dissolved Alkali and Alkaline Earth Cations and
915 Ammonium in Water and Wastewater by Ion Chromatography",
916 approved 2009, referenced in Section 611.611.

917
918 "ASTM D7283-17" means "Standard Test Method for Alpha and
919 Beta Activity in Water by Liquid Scintillation Counting", approved
920 2017, referenced in Section 611.720.

921
922 "ATI Orion Technical Bulletin 601 (94)" means "Standard Method of
923 Testing for Nitrate in Drinking Water" (July 1994), Part Number 221890-
924 001. Available from Thermo-Fisher Scientific, 168 Third Ave, Waltham,
925 MA 02451 (800-556-2323; www.thermofisher.com). Referenced in
926 Section 611.611.

927
928 "Charm Fast Phage (12)" means "Fast Phage Test: Presence/Absence for
929 Coliphage in Ground Water with Same Day Positive Prediction", ATP
930 Case No. D09-0007, Version 009 (November 28, 2012). Available from
931 Charm Sciences, Inc., 659 Andover St., Lawrence, MA 01843-1032.
932 Referenced in Section 611.802 and USEPA, OGWDW (under "Ground
933 Water Rule (PDF)").

934
935 "Chromocult® (00)" means "Chromocult® Coliform Agar
936 Presence/Absence Membrane Filter Test Method for Detection and

937 Identification of Coliform Bacteria and Escherichia coli in Finished
938 Waters", Version 1.0 (November 2000). Available from EMD Millipore
939 (division of Merck KGaA, Darmstadt, Germany), 290 Concord Road,
940 Billerica, MA 01821 (800-645-5476 or 781-533-6000) and USEPA,
941 OGWDW (under "Ground Water Rule (PDF)" and "Revised Total
942 Coliforms Rules (PDF)"). Referenced in Sections 611.802 and 611.1052.

943
944 "E*Colite (98)" means "Alternative Test Procedure Case #D95-0007:
945 Charm E*Colite Presence/Absence Test for Detection and Identification of
946 Coliform Bacteria and Escherichia coli in Drinking Water" (January 9,
947 1998). Available from Charm Sciences, Inc., 659 Andover St., Lawrence,
948 MA 01843-1032 and USEPA, OGWDW (under "Ground Water Rule
949 (PDF)" and "Revised Total Coliforms Rules (PDF)"). Referenced in
950 Sections 611.802 and 611.1052.

951
952 EML Methods. Available from USEPA, OGWDW (listed under
953 "Radionuclides (PDF)" by individual method numbers).

954
955 EML (90). In "EML Procedures Manual", HASL 300, Volumes 1
956 and 2, 27th ed. (November 1990).

957
958 "EML (90) Ga-01" means section 4.5.2.3, Ga-01, "Gamma
959 Radioassay", in section 4.5.2.3, "Radiometry", in 27th
960 ed. Referenced in Section 611.720. USEPA, OGWDW
961 lists EML (90) Ga-01 as "4.5.2.3".

962
963 "EML (90) Ra-05" means Ra-05, "Radium-226 in Tap
964 Water, Urine, and Feces", in section 4.5.4,
965 "Radiochemical", in 27th ed. Referenced in Section
966 611.720.

967
968 "EML (90) Sr-01" means Sr-01, "Strontium-89", in section
969 4.5.4, "Radiochemical", in 27th ed. Referenced in Section
970 611.720.

971
972 "EML (90) Sr-02" means Sr-02, "Strontium-90", in section
973 4.5.4, "Radiochemical", in 27th ed. Referenced in Section
974 611.720.

975
976 "EML (90) U-02" means U-02, "Isotopic Uranium in
977 Biological and Environmental Materials", in section 4.5.4,
978 "Radiochemical", in 27th ed.

979

980 "EML (90) U-04" means U-04, "Uranium in Biological and
 981 Environmental Materials", in section 4.5.4,
 982 "Radiochemical", in 27th ed. Referenced in Section
 983 611.720.
 984
 985 EML (97). In "EML Procedures Manual", HASL 300, Volumes 1
 986 and 2, 28th ed., Revision 0 (February 1997). Currently available
 987 on-line from United States Department of Homeland Security,
 988 Science and Technology Directorate (formerly United States
 989 Department of Energy, Environmental Measurements Laboratory)
 990 (www.hsd.l.org/?abstract&doc=100185&coll=limited or
 991 www.wipp.energy.gov/namp/emllegacy/procman.htm).
 992
 993 "EML (97) Ga-01-R" means Ga-01-R, "Gamma
 994 Radioassay", in section 4.5.2, "Radiometry", in 28th ed.
 995 Referenced in Section 611.720.
 996
 997 "EML (97) Ra-04" means Ra-04-RC, "Radium-226 in Tap
 998 Water, Urine, and Feces", in section 4.5.4,
 999 "Radiochemical", in 28th ed. Referenced in Section
 1000 611.720.
 1001
 1002 "EML (97) Sr-01" means Sr-01-RC, "Strontium-89", in
 1003 section 4.5.4, "Radiochemical", in 28th ed. Referenced in
 1004 Section 611.720.
 1005
 1006 "EML (97) Sr-02" means Sr-02-RC, "Strontium-90", in
 1007 section 4.5.4, "Radiochemical", in 28th ed. Referenced in
 1008 Section 611.720.
 1009
 1010 "EML (97) U-02" means U-02-RC, "Isotopic Uranium in
 1011 Biological and Environmental Materials", in section 4.5.4,
 1012 "Radiochemical", in 28th ed.
 1013
 1014 "EML (97) U-04" means U-04-RC, "Uranium in Biological
 1015 and Environmental Materials", in section 4.5.4,
 1016 "Radiochemical", in 28th ed. Referenced in Section
 1017 611.720.
 1018
 1019 "Enterolert (96)" means "Evaluation of Enterolert for Enumeration of
 1020 Enterococci in Recreational Waters", Applied and Environmental
 1021 Microbiology, Oct. 1996, vol. 62, no. 10, p. 3881. Available from

1022 American Society for Microbiology, 1752 N Street N.W., Washington,
 1023 DC 20036 (202-737-3600). Referenced in Section 611.802.

1024 BOARD NOTE: At the table to 40 CFR 141.402(c)(2), USEPA approved
 1025 the method as described in the above literature review. The method itself
 1026 is embodied in the printed instructions to the proprietary kit available from
 1027 IDEXX Laboratories, Inc. (accessible on-line and available by download
 1028 from www.asm.org, as "Enterolert™ Procedure"). ASTM approved the
 1029 method as "Standard Test Method for Enterococci in Water Using
 1030 Enterolert™", which is available in two versions from ASTM: ASTM
 1031 D6503-99 and ASTM D6503-99(2005). While it is more conventional to
 1032 incorporate by reference the method as presented in the kit instructions or
 1033 as approved by ASTM, the Board is constrained to incorporate by
 1034 reference the version that USEPA has explicitly approved, which is the
 1035 version that appears in the technical literature.

1036

1037 "Georgia Radium (04)" means "Method for the Determination of Radium-
 1038 226 and Radium-228 in Drinking Water by Gamma-ray Spectrometry
 1039 Using HPGE or Ge(Li) Detectors", Revision 1.2 (December 2004).
 1040 Available from Georgia Tech Research Institute, Robert Rosson, 925
 1041 Dalney Road, Atlanta, GA 30332 (404-407-6339) and USEPA, OGWDW
 1042 (under "Radionuclides (PDF)"). Referenced in Section 611.720.

1043

1044 "GLI Method 2 (92)" means "Turbidity GLI Method 2" (November 2,
 1045 1992). Available from Great Lakes Instruments, Inc., 8855 North 55th
 1046 Street, Milwaukee, WI 53223. Also available from USEPA, OGWDW
 1047 (under "Surface Water Treatment Rule (PDF)"). Referenced in Section
 1048 611.531.

1049

1050 "Guidance Manual for Filtration and Disinfection (91)" means "Guidance
 1051 Manual for Compliance with the Filtration and Disinfection Requirements
 1052 for Public Water Systems Using Surface Water Sources" (March 1991),
 1053 EPA 570/3-91-001, USEPA, Office of Drinking Water, Criteria and
 1054 Standards Division, Science and Technology Branch. Available from
 1055 NTRL (document number PB93-222933) and USEPA, NSCEP (search
 1056 "570391001"). Referenced in Sections 611.111 and 611.212.

1057

1058 Hach Methods. Available from Hach Company, P.O. Box 389, Loveland,
 1059 CO 80539-0389 (800-227-4224 or www.hach.com).

1060

1061 "Hach 8026 (15)" means Hach Method 8026, "Spectrophotometric
 1062 Measurement of Copper in Finished Drinking Water", Revision 1.2
 1063 (December 2015). Referenced in Section 611.611.

1064 BOARD NOTE: Also available from USEPA, OGWDW (under
1065 "Inorganic Contaminants and Other Inorganic Constituents
1066 (PDF)").
1067

1068 "Hach 8195 (18)" means Hach Method 8195, "Determination of
1069 Turbidity by Nephelometry", Revision 3.0 (March 2018).
1070 Referenced in Section 611.531.
1071

1072 "Hach 10029 (99) (m-ColiBlue24[®])" means m-ColiBlue24[®] Test,
1073 Method No. 10029, "Total Coliforms and E. coli Membrane
1074 Filtration Method with m-ColiBlue24[®] Broth", Revision 2 (August
1075 17, 1999), document number DOC316.53.001213. Referenced in
1076 Sections 611.802 and 611.1052.

1077 BOARD NOTE: Also available from USEPA, OGWDW (under
1078 "Ground Water Rule (PDF)").
1079

1080 "Hach 10133 (00) (FilterTrak)" means Hach FilterTrak Method
1081 10133, "Determination of Turbidity by Laser Nephelometry",
1082 Revision 2.0 (January 7, 2000) in Appendix A of "Introduction to
1083 Laser Nephelometry: An Alternative to Conventional Particulate
1084 Analysis Methods". Referenced in Section 611.531.

1085 BOARD NOTE: Also available from USEPA, OGWDW (under
1086 "Surface Water Treatment Rule (PDF)").
1087

1088 "Hach 10206 (11) (TNTplus 835/836)" means Hach TNTplus
1089 835/836 Method 10206, "Spectrophotometric Measurement of
1090 Nitrate in Water and Wastewater", Revision 2.0 (January 2011).
1091 Referenced in Section 611.611.

1092 BOARD NOTE: Also available from USEPA, OGWDW (under
1093 "Inorganic Contaminants and Other Inorganic Constituents
1094 (PDF)").
1095

1096 "Hach 10225 (11) (SPADNS 2)" means Hach SPADNS 2 Method
1097 10225, "Fluoride, USEPA SPADNS 2 Method 10225", Revision
1098 2.0 (January 2011). Referenced in Section 611.611.

1099 BOARD NOTE: Also available from USEPA, OGWDW (under
1100 "Inorganic Contaminants and Other Inorganic Constituents
1101 (PDF)").
1102

1103 "Hach 10241 (15)" means Hach Method 10241,
1104 "Spectrophotometric Measurement of Free Chlorine (Cl₂) in
1105 Finished Drinking Water", Revision 1.2 (November 2015).
1106 Referenced in Sections 611.381 and 611.531.

1107 BOARD NOTE: Also available from USEPA, OGWDW (under
1108 "Disinfection Byproduct Rules (PDF)").
1109
1110 "Hach 10258 (16)" means Hach Method 10258, "Determination of
1111 Turbidity by 360° Nephelometry", Revision 1.0 (January 2016).
1112 Referenced in Section 611.531.
1113 BOARD NOTE: Also available from USEPA, OGWDW (under
1114 "Surface Water Treatment Rule (PDF)").
1115
1116 "Hach 10258 (18)" means Hach Method 10258, "Determination of
1117 Turbidity by 360° Nephelometry", Revision 2.0 (March 2018).
1118 Referenced in Section 611.531.
1119
1120 "Hach 10260 (13)" means Hach Method 10260, "Determination of
1121 Chlorinated Oxidants (Free and Total) in Water Using Disposable
1122 Planar Reagent-filled Cuvettes and Mesofluic Channel
1123 Colorimetry" (April 2013). Referenced in Sections 611.381 and
1124 611.531.
1125 BOARD NOTE: Also available from USEPA, OGWDW (under
1126 "Disinfection Byproduct Rules (PDF)").
1127
1128 "Hach 10261 (15)" means Hach Method 10261, "Total Organic
1129 Carbon in Finished Drinking Water by Catalyzed Ozone Hydroxyl
1130 Radical Oxidation Infrared Analysis", Revision 1.2 (December
1131 2015). Referenced in Section 611.381.
1132 BOARD NOTE: Also available from USEPA, OGWDW (under
1133 "Disinfection Byproduct Rules (PDF)").
1134
1135 "Hach 10267 (15)" means Hach Method 10267,
1136 "Spectrophotometric Measurement of Total Organic Carbon
1137 (TOC) in Finished Drinking Water", Revision 1.2 (December
1138 2015). Referenced in Section 611.381.
1139 BOARD NOTE: Also available from USEPA, OGWDW (under
1140 "Disinfection Byproduct Rules (PDF)").
1141
1142 "Hach 10272 (15)" means Hach Method 10272,
1143 "Spectrophotometric Measurement of Copper in Finished Drinking
1144 Water", Revision 1.2 (December 2015). Referenced in Section
1145 611.611.
1146 BOARD NOTE: Also available from USEPA, OGWDW (under
1147 "Inorganic Contaminants and Other Inorganic Constituents
1148 (PDF)").
1149

1150 "ITS D99-003 (03)" means "Method # (D99-003): Free Chlorine Species
1151 (HOCl- and OCl-) by Test Strip", Revision 3.0 (November 21, 2003).
1152 Available from Industrial Test Systems, Inc., 1875 Langston St., Rock
1153 Hill, SC 29730 (803-329-2999) and USEPA, OGWDW (under
1154 "Disinfection Byproduct Rules (PDF)"). Referenced in Section 611.381.
1155

1156 "Kelada 01 (01)" means "Method Kelada-01: Kelada Automated Test
1157 Methods for Total Cyanide, Acid Dissociable Cyanide, and Thiocyanate",
1158 Revision 1.2 (August 2001), USEPA Office of Water, document number
1159 EPA 821/B-01-009. Available from NTRL (document number PB2001-
1160 108275) and USEPA, OGWDW (under "Inorganic Contaminants and
1161 Other Inorganic Constituents (PDF)"). Referenced in Section 611.611.
1162

1163 Lovibond Methods. Available from Tintometer, Inc., 6456 Parkland
1164 Drive, Sarasota, FL 34243 (800-922-5242, 941-758-6410, or
1165 www.lovibond.us) and USEPA, OGWDW (under "Surface Water
1166 Treatment Rule (PDF)").
1167

1168 "Lovibond PTV 1000 (16)" means "Continuous Measurement of
1169 Drinking Water Turbidity Using a Lovibond PTV 1000 White
1170 Light LED Turbidimeter", Revision 1.0 (December 20, 2016).
1171 Referenced in Section 611.531.
1172

1173 "Lovibond PTV 2000 (16)" means "Continuous Measurement of
1174 Drinking Water Turbidity Using a Lovibond PTV 2000 660-nm
1175 LED Turbidimeter", Revision 1.0 (December 20, 2016).
1176 Referenced in Section 611.531.
1177

1178 "Lovibond TB 3500 (21)" means "Measurement of Drinking Water
1179 Turbidity of a Captured Sample Using a Lovibond White Light
1180 LED Portable Turbidimeter", Revision 1.0 (2021). Referenced in
1181 Section 611.531.
1182

1183 "Lovibond TB 5000 (21)" means "Measurement of Drinking Water
1184 Turbidity of a Captured Sample Using a Lovibond 660-nm LED
1185 Portable Turbidimeter", Revision 1.0 (2021). Referenced in
1186 Section 611.531.
1187

1188 "Lovibond PTV 6000 (16)" means "Continuous Measurement of
1189 Drinking Water Turbidity Using a Lovibond PTV 6000 Laser
1190 Turbidimeter", Revision 1.0 (December 20, 2016). Referenced in
1191 Section 611.531.
1192

1193 ["Lovibond TB 6000 \(21\)" means "Measurement of Drinking Water](#)
1194 [Turbidity of a Captured Sample Using a Lovibond Portable Laser](#)
1195 [Turbidimeter"](#), Revision 1.0 (2021). Referenced in Section
1196 [611.531.](#)

1197
1198 "ME355.01 (09)" means "Determination of Cyanide in Drinking Water by
1199 GC/MS Headspace Analysis", Revision 1 (May 26, 2009). Available from
1200 H&E Testing Laboratory, 221 State Street, Augusta, ME 04333 (207-287-
1201 2727). Referenced in Section 611.611. Available from the publisher;
1202 NEMI; and USEPA, OGWDW (under "Inorganic Contaminants and Other
1203 Inorganic Constituents (PDF)").

1204
1205 Mitchell Methods. Available from Leck Mitchell, PhD, PE, 656
1206 Independence Valley Dr., Grand Junction, CO 81507 (920-244-8661); ,
1207 NEMI (except for Mitchell M5331 (16)); and USEPA, OGWDW (under
1208 "Surface Water Treatment Rule (PDF)").

1209
1210 "Mitchell M5271 (09)" means Mitchell Method M5271,
1211 "Determination of Turbidity by Laser Nephelometry", Revision 1.1
1212 (March 5, 2009). Referenced in Section 611.531.

1213
1214 "Mitchell M5331 (09)" means Mitchell Method M5331,
1215 "Determination of Turbidity by Laser Nephelometry", Revision 1.1
1216 (March 2009). Referenced in Section 611.531.

1217
1218 "Mitchell M5331 (16)" means Mitchell Method M5331,
1219 "Determination of Turbidity by Laser Nephelometry", Revision 1.2
1220 (February 2016). Referenced in Section 611.531.

1221
1222 "Modified Colitag™ (09)" means "Modified Colitag™ Test Method for
1223 Simultaneous Detection of E. coli and other Total Coliforms in Water",
1224 (ATP D05-0035) (August 28, 2009). Available from CPI International,
1225 Inc., 5580 Skylane Blvd., Santa Rosa, CA 95403 (800-878-7654;
1226 www.cpiinternational.com); NEMI; and USEPA, OGWDW (under
1227 "Ground Water Rule (PDF)" and "Revised Total Coliforms Rules
1228 (PDF)"). Referenced in Sections 611.802 and 611.1052.

1229
1230 "NBS Handbook 69 (63)" means "Maximum Permissible Body Burdens
1231 and Maximum Permissible Concentrations of Radionuclides in Air and in
1232 Water for Occupational Exposure" (August 1963), U.S. Department of
1233 Commerce, National Bureau of Standards. Available from International
1234 Atomic Energy Agency (IAEA), Vienna International Centre, PO Box
1235 100, 1400 Vienna, Austria, ((+43-1) 2600-0;

1236 www.iaea.org////Public//048/37048205.pdf) or Oak Ridge Associated
 1237 Universities (ORAU), MC100-44, PO Box 117, Oak Ridge, TN 37831-
 1238 0117 (865-576-3146). Referenced in Sections 611.101 and 611.330.
 1239 BOARD NOTE: The 1963 version of National Bureau of Standards
 1240 Handbook 69 modifies the 1959 publication of the National Committee on
 1241 Radiation Protection, NCRP Report No. 22, of the same title. The version
 1242 available on the NCRP website is the 1959 document.

1243
 1244 "NECi Nitrate Reductase (06)" means "Method for Nitrate Reductase
 1245 Nitrate-Nitrogen Analysis of Drinking Water", Version 1.0, Revision 2.0
 1246 (February 1, 2016). Available from Superior Enzymes Inc., 334 Hecla
 1247 Street, Lake Linden, Michigan 49945 (906-296-1115). Also available
 1248 from USEPA, OGWDW (under "Inorganic Contaminants and Other
 1249 Inorganic Constituents (PDF)"). Referenced in Section 611.611.

1250
 1251 "New Jersey Radium (90)" means "Determination of Ra-228 in Drinking
 1252 Water" (August 1990), New Jersey Department of Environmental
 1253 Protection, Division of Environmental Quality, Bureau of Radiation and
 1254 Inorganic Analytical Services. Available from publisher, 9 Ewing Street,
 1255 Trenton, NJ 08625. Referenced in Section 611.720.

1256
 1257 "New York Radium (82)" means "Determination of 226Ra and 228Ra,
 1258 Ra-02" (January 1980, revised June 1982), Radiological Sciences Institute,
 1259 Center for Laboratories and Research, New York State Department of
 1260 Health. Available from publisher, Empire State Plaza, Albany, NY
 1261 12201. Referenced in Section 611.720.

1262
 1263 "OIA-1677 (04)" means "Method OIA-1677 DW, Available Cyanide by
 1264 Flow Injection, Ligand Exchange, and Amperometry" (January 2004),
 1265 document number EPA 821/R-04/001. Referenced in Section 611.611.
 1266 Available from ALPKEM, Division of OI Analytical, P.O. Box 9010,
 1267 College Station, TX 77842-9010, telephone: 979-690-1711, Internet:
 1268 www.oico.com; USEPA, NSCEP (search "821R04001"); and USEPA,
 1269 OGWDW (under "Inorganic Contaminants and Other Inorganic
 1270 Constituents (PDF)").

1271
 1272 "Orion AQ4500 (09)" means "Determination of Turbidity by LED
 1273 Nephelometry", Revision 5 (March 12, 2009). Available from Thermo-
 1274 Fisher Scientific, 168 Third Ave, Waltham, MA 02451 (800-556-2323 or
 1275 www.thermofisher.com); NEMI; and USEPA, OGWDW (under "Surface
 1276 Water Treatment Rule (PDF)"). Referenced in Section 611.531.

1277

1278 Palintest Methods. Available from Palintest, Ltd., 1455 Jamike Avenue,
1279 Suite 100, Erlanger, KY [41018](#) (800-835-9629).

1280
1281 "Palintest 1001 (99)" means "Method 1001: Lead in Drinking
1282 Water by Differential Pulse Anodic Stripping Voltammetry",
1283 August 1999, referenced in Section 611.611.
1284 BOARD NOTE: Also available from USEPA, OGWDW (under
1285 "Inorganic Contaminants and Other Inorganic Constituents
1286 (PDF)").

1287
1288 "Palintest ChlordioX Plus (13)" means "Chlorine Dioxide and
1289 Chlorite in Drinking Water by Amperometry using Disposable
1290 Sensors", November 2013, referenced in Sections 611.381 and
1291 611.531.
1292 BOARD NOTE: Also available from USEPA, OGWDW (under
1293 "Disinfection Byproduct Rules (PDF)").

1294
1295 "Palintest ChloroSense (09)" means "Measurement of Free and
1296 Total Chlorine in Drinking Water by Palintest ChloroSense",
1297 September 2009, referenced in Sections 611.381 and 611.531.
1298 BOARD NOTE: Also available from NEMI and USEPA,
1299 OGWDW (under "Disinfection Byproduct Rules (PDF)").

1300
1301 "QuikChem 10-204-00-1-X (00)" means "Digestion and distillation of
1302 total cyanide in drinking and wastewaters using MICRO DIST and
1303 determination of cyanide by flow injection analysis", Revision 2.1
1304 (November 30, 2000). Available from Lachat Instruments, 6645 W. Mill
1305 Rd., Milwaukee, WI 53218 (414-358-4200) and USEPA, OGWDW
1306 (under "Inorganic Contaminants and Other Inorganic Constituents
1307 (PDF)"). Referenced in Section 611.611.

1308
1309 "Readycult® (07)" means "Readycult Coliforms 100 Presence/Absence
1310 Test for Detection and Identification of Coliform Bacteria and Escherichia
1311 coli in Finished Waters", Version 1.1 (January 2007). Available from
1312 EMD Millipore (division of Merck KGgA, Darmstadt, Germany), 290
1313 Concord Road, Billerica, MA 01821 (800-645-5476 or 781-533-6000)
1314 and USEPA, OGWDW (under "Ground Water Rule (PDF)" and "Revised
1315 Total Coliforms Rules (PDF)"). Referenced in Sections 611.802 and
1316 611.1052.

1317
1318 "SimPlate (00)" means "IDEXX SimPlate™ HPC Test Method for
1319 Heterotrophs in Water" (November 29, 2000). Available from IDEXX

1320 Laboratories, Inc., One IDEXX Drive, Westbrook, Maine 04092 (800-
1321 321-0207). Referenced in Section 611.531.

1322
1323 SM Methods. Approved as the version in the indicated editions of
1324 "Standard Methods for the Examination of Water and Wastewater"
1325 Available from the American Public Health Association, 800 I Street NW,
1326 Washington, DC 20005, 202-777-2742, www.awwa.org/store; American
1327 Water Works Association, 6666 West Quincy Ave., Denver, CO 80235,
1328 303-794-7711; Water Environment Federation, 601 Wythe Street,
1329 Alexandria, VA 22314, 800-666-0206, www.wef.org; or Standard
1330 Methods Online, 800-633-4931, www.standardmethods.org.

1331
1332 BOARD NOTE: The Board does not separately list methods from
1333 Standard Methods Online that also appear in the same version in a printed
1334 edition. Use of the approved method in the version indicated from
1335 Standard Methods Online is acceptable.

1336
1337 "SM 302 (71)" means Method 302, "Gross Alpha and Gross Beta
1338 Radioactivity in Water (Total, Suspended, and Dissolved)", only
1339 the version in the 13th edition. Referenced in Section 611.720.

1340
1341 "SM 303 (71)" means Method 303, "Total Radioactive Strontium
1342 and Strontium 90 in Water", only the version in the 13th edition.
1343 Referenced in Section 611.720.

1344
1345 "SM 304 (71)" means Method 304, "Radium in Water by
1346 Precipitation", only the version in the 13th edition. Referenced in
1347 Section 611.720.

1348
1349 "SM 305 (71)" means Method 305, "Radium 226 by Radon in
1350 Water (Soluble, Suspended, and Total)", only the version in the
1351 13th edition. Referenced in Section 611.720.

1352
1353 "SM 306 (71)" means Method 306, "Tritium in Water", in
1354 "Standard Methods for the Examination of Water and
1355 Wastewater", only the version in the 13th edition. Referenced in
1356 Section 611.720.

1357
1358 "SM 2130 B (88)" means Method 2130 B, "Turbidity",
1359 "Nephelometric Method", only the version in the 18th edition.
1360 Referenced in Section 611.531.

1361

1362 "SM 2130 B (94)" means Method 2130 B, "Turbidity",
1363 "Nephelometric Method", only the version in the 19th and 20th
1364 editions. Referenced in Section 611.531.
1365
1366 "SM 2130 B (01)" means Method 2130 B, "Turbidity",
1367 "Nephelometric Method", only the version in the 21st, 22nd, and
1368 23rd editions. Referenced in Section 611.531.
1369
1370 "SM 2320 B (91)" means Method 2320 B, "Alkalinity", "Titration
1371 Method", only the version in the 18th and 19th editions. Referenced
1372 in Section 611.611.
1373
1374 "SM 2320 B (97)" means Method 2320 B, "Alkalinity", "Titration
1375 Method", only the version in the 20th, 21st, 22nd, and 23rd editions.
1376 Referenced in Section 611.611.
1377
1378 "SM 2510 B (91)" means Method 2510 B, "Conductivity",
1379 "Laboratory Method", only the version in the 18th and 19th editions.
1380 Referenced in Section 611.611.
1381
1382 "SM 2510 B (97)" means Method 2510 B, "Conductivity",
1383 "Laboratory Method", only the version in the 20th, 21st, 22nd, and
1384 23rd editions. Referenced in Section 611.611.
1385
1386 "SM 2550 (88)" means Method 2550, "Temperature, Laboratory
1387 and Field Methods", only the version in the 18th edition.
1388 Referenced in Section 611.611.
1389
1390 "SM 2550 (93)" means Method 2550, "Temperature, Laboratory
1391 and Field Methods", only the version in the 19th and 20th editions.
1392 Referenced in Section 611.611.
1393
1394 "SM 2550 (00)" means Method 2550, "Temperature, Laboratory
1395 and Field Methods", only the version in the 21st edition.
1396 Referenced in Section 611.611.
1397
1398 "SM 2550 (10)" means Method 2550, "Temperature, Laboratory
1399 and Field Methods", only the version in the 22nd and 23rd editions.
1400 Referenced in Section 611.611.
1401
1402 "SM 3111 B (89)" means Method 3111 B, "Metals by Flame
1403 Atomic Absorption Spectrometry", "Direct Air-Acetylene Flame

1404 Method", only the version in the 18th edition. Referenced in
 1405 Sections 611.611 and 611.612.
 1406
 1407 "SM 3111 B (93)" means Method 3111 B, "Metals by Flame
 1408 Atomic Absorption Spectrometry", "Direct Air-Acetylene Flame
 1409 Method", only the version in the 19th edition. Referenced in
 1410 Sections 611.611 and 611.612.
 1411
 1412 "SM 3111 B (99)" means Method 3111 B, "Metals by Flame
 1413 Atomic Absorption Spectrometry", "Direct Air-Acetylene Flame
 1414 Method". Referenced in Sections 611.611 and 611.612.
 1415
 1416 "SM 3111 D (89)" means Method 3111 D, "Metals by Flame
 1417 Atomic Absorption Spectrometry", "Direct Nitrous Oxide-
 1418 Acetylene Flame Method", only the version in the 19th edition.
 1419 Referenced in Section 611.611.
 1420
 1421 "SM 3111 D (93)" means Method 3111 D, "Metals by Flame
 1422 Atomic Absorption Spectrometry", "Direct Nitrous Oxide-
 1423 Acetylene Flame Method", only the version in the 19th edition.
 1424 Referenced in Section 611.611.
 1425
 1426 "SM 3111 D (99)" means Method 3111 D, "Metals by Flame
 1427 Atomic Absorption Spectrometry", "Direct Nitrous Oxide-
 1428 Acetylene Flame Method", only the version in the 21st, 22nd, and
 1429 23rd editions. Referenced in Section 611.611.
 1430
 1431 "SM 3112 B (88)" means Method 3112 B, "Metals by Cold-Vapor
 1432 Atomic Absorption Spectrometry", "Cold-Vapor Atomic
 1433 Absorption Spectrometric Method", only the version in the 18th
 1434 edition. Referenced in Section 611.611.
 1435
 1436 "SM 3112 B (93)" means Method 3112 B, "Metals by Cold-Vapor
 1437 Atomic Absorption Spectrometry", "Cold-Vapor Atomic
 1438 Absorption Spectrometric Method", only the version in the 19th
 1439 edition. Referenced in Section 611.611.
 1440
 1441 "SM 3112 B (99)" means Method 3112 B, "Metals by Cold-Vapor
 1442 Atomic Absorption Spectrometry", "Cold-Vapor Atomic
 1443 Absorption Spectrometric Method", only the version in the 21st
 1444 edition. Referenced in Section 611.611.
 1445

1446 "SM 3112 B (09)" means Method 3112 B, "Metals by Cold-Vapor
 1447 Atomic Absorption Spectrometry", "Cold-Vapor Atomic
 1448 Absorption Spectrometric Method", only the version in the 22nd
 1449 and 23rd editions. Referenced in Section 611.611.

1450
 1451 "SM 3113 B (89)" means Method 3113 B, "Metals by
 1452 Electrothermal Atomic Absorption Spectrometry", "Electrothermal
 1453 Atomic Absorption Spectrometric Method", only the version in the
 1454 18th edition. Referenced in Sections 611.611 and 611.612.

1455
 1456 "SM 3113 B (93)" means Method 3113 B, "Metals by
 1457 Electrothermal Atomic Absorption Spectrometry", "Electrothermal
 1458 Atomic Absorption Spectrometric Method", only the version in the
 1459 19th edition. (The same version appears in the 20th edition but
 1460 USEPA has not approved that edition.) Referenced in Sections
 1461 611.611 and 611.612.

1462
 1463 "SM 3113 B (99)" means Method 3113 B, "Metals by
 1464 Electrothermal Atomic Absorption Spectrometry", "Electrothermal
 1465 Atomic Absorption Spectrometric Method", only the version in the
 1466 21st edition. Referenced in Sections 611.611 and 611.612.

1467
 1468 "SM 3113 B (04)" means Method 3113 B, "Metals by
 1469 Electrothermal Atomic Absorption Spectrometry", "Electrothermal
 1470 Atomic Absorption Spectrometric Method", only the version from
 1471 Standard Methods Online as Method 3113 B-04. Referenced in
 1472 Sections 611.611 and 611.612.

1473
 1474 "SM 3113 B (10)" means Method 3113 B, "Metals by
 1475 Electrothermal Atomic Absorption Spectrometry", "Electrothermal
 1476 Atomic Absorption Spectrometric Method", only the version in the
 1477 22nd and 23rd editions. Referenced in Sections 611.611 and
 1478 611.612.

1479
 1480 "SM 3114 B (89)" means Method 3114 B, "Metals by Hydride
 1481 Generation/Atomic Absorption Spectrometry", "Manual Hydride
 1482 Generation/Atomic Absorption Spectrometric Method", only the
 1483 version in the 18th edition. Referenced in Section 611.611.

1484
 1485 "SM 3114 B (93)" means Method 3114 B, "Metals by Hydride
 1486 Generation/Atomic Absorption Spectrometry", "Manual Hydride
 1487 Generation/Atomic Absorption Spectrometric Method", only the
 1488 version in the 19th edition. Referenced in Section 611.611.

1489
1490 "SM 3114 B (97)" means Method 3114 B, "Metals by Hydride
1491 Generation/Atomic Absorption Spectrometry", "Manual Hydride
1492 Generation/Atomic Absorption Spectrometric Method", only the
1493 version in the 21st edition. (The same version appears in the 20th
1494 edition, but USEPA has not approved that edition.) Referenced in
1495 Section 611.611.
1496
1497 "SM 3114 B (09)" means Method 3114 B, "Metals by Hydride
1498 Generation/Atomic Absorption Spectrometry", "Manual Hydride
1499 Generation/Atomic Absorption Spectrometric Method", only the
1500 version in the 22nd and 23rd editions. Referenced in Section
1501 611.611.
1502
1503 "SM 3120 B (89)" means Method 3120 B, "Metals by Plasma
1504 Emission Spectroscopy", "Inductively Coupled Plasma (ICP)
1505 Method", only the version in the 18th edition. Referenced in
1506 Sections 611.611 and 611.612.
1507
1508 "SM 3120 B (93)" means Method 3120 B, "Metals by Plasma
1509 Emission Spectroscopy", "Inductively Coupled Plasma (ICP)
1510 Method", only the version in the 19th and 20th editions. Referenced
1511 in Sections 611.611 and 611.612.
1512
1513 "SM 3120 B (99)" means Method 3120 B, "Metals by Plasma
1514 Emission Spectroscopy", "Inductively Coupled Plasma (ICP)
1515 Method", only the version in the 21st, 22nd, and 23rd editions.
1516 Referenced in Sections 611.611 and 611.612.
1517
1518 "SM 3125 (97)" means Method 3125, "Metals by Inductively
1519 Coupled Plasma/Mass Spectrometry", only the version in the 20th
1520 and 21st editions. Referenced in Section 611.720.
1521
1522 "SM 3500-Ca B (97)" means Method 3500-Ca B, "Calcium",
1523 "EDTA Titrimetric Method", only the version in the 20th, 21st, 22nd,
1524 and 23rd editions. Referenced in Section 611.611.
1525
1526 "SM 3500-Ca D (91)" means Method 3500-Ca D, "Calcium",
1527 "EDTA Titrimetric Method", only the version in the 18th and 19th
1528 editions. Referenced in Section 611.611.
1529

1530 "SM 3500-Mg B (97)" means Method 3500-Mg B, "Magnesium",
1531 "Calculation Method", only the version in the 20th, 21st, 22nd, and
1532 23rd editions. Referenced in Section 611.611.
1533
1534 "SM 3500-Mg E (90)" means Method 3500-Mg E, "Magnesium",
1535 "Calculation Method", only the version in the 18th edition.
1536 Referenced in Section 611.611.
1537
1538 "SM 3500-Mg E (91)" means Method 3500-Mg E, "Magnesium",
1539 "Calculation Method", only the version in the 19th edition.
1540 Referenced in Section 611.611.
1541
1542 "SM 4110 B (90)" means Method 4110 B, "Determination of
1543 Anions by Ion Chromatography", "Ion Chromatography with
1544 Chemical Suppression of Eluent Conductivity", only the version in
1545 the 18th edition. Referenced in Section 611.611.
1546
1547 "SM 4110 B (91)" means Method 4110 B, "Determination of
1548 Anions by Ion Chromatography", "Ion Chromatography with
1549 Chemical Suppression of Eluent Conductivity", only the version in
1550 the 19th edition. Referenced in Section 611.611.
1551
1552 "SM 4110 B (97)" means Method 4110 B, "Determination of
1553 Anions by Ion Chromatography", "Ion Chromatography with
1554 Chemical Suppression of Eluent Conductivity", only the version in
1555 the 20th edition. Referenced in Section 611.611.
1556
1557 "SM 4110 B (00)" means Method 4110 B, "Determination of
1558 Anions by Ion Chromatography", "Ion Chromatography with
1559 Chemical Suppression of Eluent Conductivity", only the version in
1560 the 21st, 22nd, and 23rd editions. Referenced in Section 611.611.
1561
1562 "SM 4500-Cl D (89)" means Method 4500-Cl D, "Chlorine
1563 (Residual)", "Amperometric Titration Method", only the version in
1564 the 18th edition. Referenced in Section 611.531.
1565
1566 "SM 4500-Cl D (93)" means Method 4500-Cl D, "Chlorine
1567 (Residual)", "Amperometric Titration Method", only the version in
1568 the 19th and 20th editions. Referenced in Sections 611.381 and
1569 611.531.
1570
1571 "SM 4500-Cl D (00)" means Method 4500-Cl D, "Chlorine
1572 (Residual)", "Amperometric Titration Method", only the version in

1573 the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381
1574 and 611.531.
1575
1576 "SM 4500-Cl E (89)" means Method 4500-Cl E, "Chlorine
1577 (Residual)", "Low-Level Amperometric Titration Method", only
1578 the version in the 18th edition. Referenced in Section 611.531.
1579
1580 "SM 4500-Cl E (93)" means Method 4500-Cl E, "Chlorine
1581 (Residual)", "Low-Level Amperometric Titration Method", only
1582 the version in the 19th and 20th editions. Referenced in Sections
1583 611.381 and 611.531.
1584
1585 "SM 4500-Cl E (00)" means Method 4500-Cl E, "Chlorine
1586 (Residual)", "Low-Level Amperometric Titration Method", only
1587 the version in the 21st, 22nd, and 23rd editions. Referenced in
1588 Sections 611.381 and 611.531.
1589
1590 "SM 4500-Cl F (89)" means Method 4500-Cl F, "Chlorine
1591 (Residual)", "DPD Ferrous Titrimetric Method", only the version
1592 in the 18th edition. Referenced in Section 611.531.
1593
1594 "SM 4500-Cl F (93)" means Method 4500-Cl F, "Chlorine
1595 (Residual)", "DPD Ferrous Titrimetric Method", only the version
1596 in the 19th and 20th editions. Referenced in Sections 611.381 and
1597 611.531.
1598
1599 "SM 4500-Cl F (00)" means Method 4500-Cl F, "Chlorine
1600 (Residual)", "DPD Ferrous Titrimetric Method", only the version
1601 in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381
1602 and 611.531.
1603
1604 "SM 4500-Cl G (89)" means Method 4500-Cl G, "Chlorine
1605 (Residual)", "DPD Colorimetric Method", only the version in the
1606 18th edition. Referenced in Section 611.531.
1607
1608 "SM 4500-Cl G (93)" means Method 4500-Cl G, "Chlorine
1609 (Residual)", "DPD Colorimetric Method", only the version in the
1610 19th and 20th editions. Referenced in Sections 611.381 and
1611 611.531.
1612
1613 "SM 4500-Cl G (00)" means Method 4500-Cl G, "Chlorine
1614 (Residual)", "DPD Colorimetric Method", only the version in the

1615 21st, 22nd, and 23rd editions. Referenced in Sections 611.381 and
 1616 611.531.
 1617
 1618 "SM 4500-Cl H (89)" means Method 4500-Cl H, "Chlorine
 1619 (Residual)", "Syringaldazine (FACTS) Method", only the version
 1620 in the 18th edition. Referenced in Section 611.531.
 1621
 1622 "SM 4500-Cl H (93)" means Method 4500-Cl H, "Chlorine
 1623 (Residual)", "Syringaldazine (FACTS) Method", only the version
 1624 in the 19th and 20th editions. Referenced in Sections 611.381 and
 1625 611.531.
 1626
 1627 "SM 4500-Cl H (00)" means Method 4500-Cl H, "Chlorine
 1628 (Residual)", "Syringaldazine (FACTS) Method", only the version
 1629 in the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381
 1630 and 611.531.
 1631
 1632 "SM 4500-Cl I (89)" means Method 4500-Cl I, "Chlorine
 1633 (Residual)", "Iodometric Electrode Method", only the version in
 1634 the 18th edition. Referenced in Section 611.531.
 1635
 1636 "SM 4500-Cl I (93)" means Method 4500-Cl I, "Chlorine
 1637 (Residual)", "Iodometric Electrode Method", only the version in
 1638 the 19th and 20th editions. Referenced in Sections 611.381 and
 1639 611.531.
 1640
 1641 "SM 4500-Cl I (00)" means Method 4500-Cl I, "Chlorine
 1642 (Residual)", "Iodometric Electrode Method", only the version in
 1643 the 21st, 22nd, and 23rd editions. Referenced in Sections 611.381
 1644 and 611.531.
 1645
 1646 "SM 4500-ClO₂ C (88)" means Method 4500-ClO₂ C, "Chlorine
 1647 Dioxide", "Amperometric Method I", only the version in the 18th
 1648 edition. Referenced in Sections 611.381 and 611.531.
 1649
 1650 "SM 4500-ClO₂ C (93)" means Method 4500-ClO₂ C, "Chlorine
 1651 Dioxide", "Amperometric Method I", only the version in the 19th
 1652 and 20th editions. Referenced in Section 611.531.
 1653
 1654 "SM 4500-ClO₂ C (00)" means Method 4500-ClO₂ C, "Chlorine
 1655 Dioxide", "Amperometric Method I", only the version in the 21st,
 1656 22nd, and 23rd editions. Referenced in Section 611.531.
 1657

1658 "SM 4500-ClO₂ D (88)" means Method 4500-ClO₂ D, "Chlorine
 1659 Dioxide", "DPD Method", only the version in the 18th edition.
 1660 Referenced in Section 611.531.
 1661
 1662 "SM 4500-ClO₂ D (93)" means Method 4500-ClO₂ D, "Chlorine
 1663 Dioxide", "DPD Method", only the version in the 19th and 20th
 1664 editions. Referenced in Sections 611.381 and 611.531.
 1665
 1666 "SM 4500-ClO₂ D (00)" means Method 4500-ClO₂ D, "Chlorine
 1667 Dioxide", "DPD Method", only the version in the 21st edition.
 1668 Referenced in Section 611.381.
 1669
 1670 "SM 4500-ClO₂ E (88)" means Method 4500-ClO₂ E, "Chlorine
 1671 Dioxide", "Amperometric Method II (Proposed)", only the version
 1672 in the 18th edition. Referenced in Section 611.531.
 1673
 1674 "SM 4500-ClO₂ E (93)" means Method 4500-ClO₂ E, "Chlorine
 1675 Dioxide", "Amperometric Method II", only the version in the 19th
 1676 and 20th editions. Referenced in Sections 611.381 and 611.531.
 1677
 1678 "SM 4500-ClO₂ E (00)" means Method 4500-ClO₂ E, "Chlorine
 1679 Dioxide", "Amperometric Method II", only the version in the 21st,
 1680 22nd, and 23rd editions. Referenced in Sections 611.381 and
 1681 611.531.
 1682
 1683 "SM 4500-CN⁻ C (90)" means Method 4500-CN⁻ C, "Cyanide",
 1684 "Total Cyanide after Distillation", only the version in the 18th and
 1685 19th editions. Referenced in Section 611.611.
 1686
 1687 "SM 4500-CN⁻ C (97)" means Method 4500-CN⁻ C, "Cyanide",
 1688 "Total Cyanide after Distillation", only the version in the 20th
 1689 edition. Referenced in Section 611.611.
 1690
 1691 "SM 4500-CN⁻ C (99)" means Method 4500-CN⁻ C, "Cyanide",
 1692 "Total Cyanide after Distillation", only the version in the 21st and
 1693 22nd editions. Referenced in Section 611.611.
 1694
 1695 "SM 4500-CN⁻ C (16)" means Method 4500-CN⁻ C, "Cyanide",
 1696 "Total Cyanide after Distillation", only the version in the 23rd
 1697 edition. Referenced in Section 611.611.
 1698

1699 "SM 4500-CN⁻ E (90)" means Method 4500-CN⁻ E, "Cyanide",
 1700 "Colorimetric Method", only the version in the 18th and 19th
 1701 editions. Referenced in Section 611.611.
 1702
 1703 "SM 4500-CN⁻ E (97)" means Method 4500-CN⁻ E, "Cyanide",
 1704 "Colorimetric Method", only the version in the 20th edition.
 1705 Referenced in Section 611.611.
 1706
 1707 "SM 4500-CN⁻ E (99)" means Method 4500-CN⁻ E, "Cyanide",
 1708 "Colorimetric Method", only the version in the 21st and 22nd
 1709 editions. Referenced in Section 611.611.
 1710
 1711 "SM 4500-CN⁻ E (16)" means Method 4500-CN⁻ E, "Cyanide",
 1712 "Colorimetric Method", only the version in the 23rd edition.
 1713 Referenced in Section 611.611.
 1714
 1715 "SM 4500-CN⁻ F (90)" means Method 4500-CN⁻ F, "Cyanide",
 1716 "Cyanide-Selective Electrode Method", only the version in the 18th
 1717 and 19th editions. Referenced in Section 611.611.
 1718
 1719 "SM 4500-CN⁻ F (97)" means Method 4500-CN⁻ F, "Cyanide",
 1720 "Cyanide-Selective Electrode Method", only the version in the 20th
 1721 edition. Referenced in Section 611.611.
 1722
 1723 "SM 4500-CN⁻ F (99)" means Method 4500-CN⁻ F, "Cyanide",
 1724 "Cyanide-Selective Electrode Method", only the version in the 21st
 1725 and 22nd editions. Referenced in Section 611.611.
 1726
 1727 "SM 4500-CN⁻ F (16)" means Method 4500-CN⁻ F, "Cyanide",
 1728 "Cyanide-Ion Selective Electrode Method", only the version in the
 1729 23rd edition. Referenced in Section 611.611.
 1730
 1731 "SM 4500-CN⁻ G (90)" means Method 4500-CN⁻ G, "Cyanide",
 1732 "Cyanides Amenable to Chlorination after Distillation", only the
 1733 version in the 18th and 19th editions. Referenced in Section
 1734 611.611.
 1735
 1736 "SM 4500-CN⁻ G (97)" means Method 4500-CN⁻ G, "Cyanide",
 1737 "Cyanides Amenable to Chlorination after Distillation", only the
 1738 version in the 20th edition. Referenced in Section 611.611.
 1739
 1740 "SM 4500-CN⁻ G (99)" means Method 4500-CN⁻ G, "Cyanide",
 1741 "Cyanides Amenable to Chlorination after Distillation", only the

1742 version in the 21st and 22nd editions. Referenced in Section
 1743 611.611.
 1744
 1745 "SM 4500-CN⁻ G (16)" means Method 4500-CN⁻ G, "Cyanide",
 1746 "Cyanides Amenable to Chlorination after Distillation", only the
 1747 version in the 23rd edition. Referenced in Section 611.611.
 1748
 1749 "SM 4500-F⁻ B (88)" means Method 4500-F⁻ B, "Fluoride",
 1750 "Preliminary Distillation Step", only the version in the 18th edition.
 1751 Referenced in Section 611.611.
 1752
 1753 "SM 4500-F⁻ B (94)" means Method 4500-F⁻ B, "Fluoride",
 1754 "Preliminary Distillation Step", only the version in the 19th edition.
 1755 Referenced in Section 611.611.
 1756
 1757 "SM 4500-F⁻ B (97)" means Method 4500-F⁻ B, "Fluoride",
 1758 "Preliminary Distillation Step", only the version in the 20th, 21st,
 1759 22nd, and 23rd editions. Referenced in Section 611.611.
 1760
 1761 "SM 4500-F⁻ C (88)" means Method 4500-F⁻ C, "Fluoride", "Ion-
 1762 Selective Electrode Method", only the version in the 18th edition.
 1763 Referenced in Section 611.611.
 1764
 1765 "SM 4500-F⁻ C (94)" means Method 4500-F⁻ C, "Fluoride", "Ion-
 1766 Selective Electrode Method", only the version in the 19th edition.
 1767 Referenced in Section 611.611.
 1768
 1769 "SM 4500-F⁻ C (97)" means Method 4500-F⁻ C, "Fluoride", "Ion-
 1770 Selective Electrode Method", only the version in the 20th, 21st,
 1771 22nd, and 23rd editions. Referenced in Section 611.611.
 1772
 1773 "SM 4500-F⁻ D (88)" means Method 4500-F⁻ D, "Fluoride",
 1774 "SPADNS Method", only the version in the 18th edition.
 1775 Referenced in Section 611.611.
 1776
 1777 "SM 4500-F⁻ D (94)" means Method 4500-F⁻ D, "Fluoride",
 1778 "SPADNS Method", only the version in the 19th edition.
 1779 Referenced in Section 611.611.
 1780
 1781 "SM 4500-F⁻ D (97)" means Method 4500-F⁻ D, "Fluoride",
 1782 "SPADNS Method", only the version in the 20th, 21st, 22nd, and
 1783 23rd editions. Referenced in Section 611.611.
 1784

1785 "SM 4500-F⁻ E (88)" means Method 4500-F⁻ E, "Fluoride",
 1786 "Complexone Method", only the version in the 18th edition.
 1787 Referenced in Section 611.611.
 1788
 1789 "SM 4500-F⁻ E (94)" means Method 4500-F⁻ E, "Fluoride",
 1790 "Complexone Method", only the version in the 19th edition.
 1791 Referenced in Section 611.611.
 1792
 1793 "SM 4500-F⁻ E (97)" means Method 4500-F⁻ E, "Fluoride",
 1794 "Complexone Method", only the version in the 20th, 21st, 22nd, and
 1795 23rd editions. Referenced in Section 611.611.
 1796
 1797 "SM 4500-H⁺ B (90)" means Method 4500-H⁺ B, "pH Value",
 1798 "Electrometric Method", only the version in the 18th and 19th
 1799 editions. Referenced in Section 611.611.
 1800
 1801 "SM 4500-H⁺ B (96)" means Method 4500-H⁺ B, "pH Value",
 1802 "Electrometric Method", only the version in the 20th edition.
 1803 Referenced in Section 611.611.
 1804
 1805 "SM 4500-H⁺ B (00)" means Method 4500-H⁺ B, "pH Value",
 1806 "Electrometric Method", only the version in the 21st, 22nd, and 23rd
 1807 editions. Referenced in Section 611.611.
 1808
 1809 "SM 4500-NO₃⁻ D (88)" means Method 4500-NO₃⁻ D, "Nitrogen
 1810 (Nitrate)", "Nitrate Electrode Method", only the version in the 18th
 1811 edition. Referenced in Section 611.611.
 1812
 1813 "SM 4500-NO₃⁻ D (93)" means Method 4500-NO₃⁻ D, "Nitrogen
 1814 (Nitrate)", "Nitrate Electrode Method", only the version in the 19th
 1815 edition. Referenced in Section 611.611.
 1816
 1817 "SM 4500-NO₃⁻ D (97)" means Method 4500-NO₃⁻ D, "Nitrogen
 1818 (Nitrate)", "Nitrate Electrode Method", only the version in the 20th
 1819 edition. Referenced in Section 611.611.
 1820
 1821 "SM 4500-NO₃⁻ D (00)" means Method 4500-NO₃⁻ D, "Nitrogen
 1822 (Nitrate)", "Nitrate Electrode Method", only the version in the 21st
 1823 and 22nd editions. Referenced in Section 611.611.
 1824
 1825 "SM 4500-NO₃⁻ D (16)" means Method 4500-NO₃⁻ D, "Nitrogen
 1826 (Nitrate)", "Nitrate Electrode Method", only the version in the 23rd
 1827 edition. Referenced in Section 611.611.

1828
1829 "SM 4500-NO₃⁻ E (88)" means Method 4500-NO₃⁻ E, "Nitrogen
1830 (Nitrate)", "Cadmium Reduction Method", only the version in the
1831 18th edition. Referenced in Section 611.611.
1832
1833 "SM 4500-NO₃⁻ E (93)" means Method 4500-NO₃⁻ E, "Nitrogen
1834 (Nitrate)", "Cadmium Reduction Method", only the version in the
1835 19th edition. Referenced in Section 611.611.
1836
1837 "SM 4500-NO₃⁻ E (97)" means Method 4500-NO₃⁻ E, "Nitrogen
1838 (Nitrate)", "Cadmium Reduction Method", only the version in the
1839 20th edition. Referenced in Section 611.611.
1840
1841 "SM 4500-NO₃⁻ E (00)" means Method 4500-NO₃⁻ E, "Nitrogen
1842 (Nitrate)", "Cadmium Reduction Method", only the version in the
1843 21st and 22nd editions. Referenced in Section 611.611.
1844
1845 "SM 4500-NO₃⁻ E (16)" means Method 4500-NO₃⁻ E, "Nitrogen
1846 (Nitrate)", "Cadmium Reduction Method", only the version in the
1847 23rd edition. Referenced in Section 611.611.
1848
1849 "SM 4500-NO₃⁻ F (88)" means Method 4500-NO₃⁻ F, "Nitrogen
1850 (Nitrate)", "Automated Cadmium Reduction Method", only the
1851 version in the 18th edition. Referenced in Section 611.611.
1852
1853 "SM 4500-NO₃⁻ F (93)" means Method 4500-NO₃⁻ F, "Nitrogen
1854 (Nitrate)", "Automated Cadmium Reduction Method", only the
1855 version in the 19th edition. Referenced in Section 611.611.
1856
1857 "SM 4500-NO₃⁻ F (97)" means Method 4500-NO₃⁻ F, "Nitrogen
1858 (Nitrate)", "Automated Cadmium Reduction Method", only the
1859 version in the 20th edition. Referenced in Section 611.611.
1860
1861 "SM 4500-NO₃⁻ F (00)" means Method 4500-NO₃⁻ F, "Nitrogen
1862 (Nitrate)", "Automated Cadmium Reduction Method", only the
1863 version in the 21st and 22nd editions. Referenced in Section
1864 611.611.
1865
1866 "SM 4500-NO₃⁻ F (16)" means Method 4500-NO₃⁻ F, "Nitrogen
1867 (Nitrate)", "Automated Cadmium Reduction Method", only the
1868 version in the 23rd edition. Referenced in Section 611.611.
1869

1870 "SM 4500-NO₂⁻ B (88)" means Method 4500-NO₂⁻ B, "Nitrogen
 1871 (Nitrite)", "Colorimetric Method", only the version in the 18th
 1872 edition. Referenced in Section 611.611.
 1873
 1874 "SM 4500-NO₂⁻ B (93)" means Method 4500-NO₂⁻ B, "Nitrogen
 1875 (Nitrite)", "Colorimetric Method", only the version in the 19th and
 1876 20th editions. Referenced in Section 611.611.
 1877
 1878 "SM 4500-NO₂⁻ B (00)" means Method 4500-NO₂⁻ B, "Nitrogen
 1879 (Nitrite)", "Colorimetric Method", only the version in the 21st,
 1880 22nd, and 23rd editions. Referenced in Section 611.611.
 1881
 1882 "SM 4500-O₃ B (88)" means Method 4500-O₃ B, "Ozone
 1883 (Residual) (Proposed)", "Indigo Colorimetric Method", only the
 1884 version in the 18th edition. Referenced in Section 611.531.
 1885
 1886 "SM 4500-O₃ B (93)" means Method 4500-O₃ B, "Ozone
 1887 (Residual)", "Indigo Colorimetric Method", only the version in the
 1888 19th edition. Referenced in Section 611.531.
 1889
 1890 "SM 4500-O₃ B (97)" means Method 4500-O₃ B, "Ozone
 1891 (Residual)", "Indigo Colorimetric Method", only the version in the
 1892 20th, 21st, 22nd, and 23rd editions. Referenced in Section 611.531.
 1893
 1894 "SM 4500-P E (88)" means Method 4500-P E, "Phosphorus",
 1895 "Ascorbic Acid Method", only the version in the 18th edition.
 1896 Referenced in Section 611.611.
 1897
 1898 "SM 4500-P E (93)" means Method 4500-P E, "Phosphorus",
 1899 "Ascorbic Acid Method", only the version in the 19th edition.
 1900 Referenced in Section 611.611.
 1901
 1902 "SM 4500-P E (97)" means Method 4500-P E, "Phosphorus",
 1903 "Ascorbic Acid Method", only the version in the 20th edition.
 1904 Referenced in Section 611.611.
 1905
 1906 "SM 4500-P E (99)" means Method 4500-P E, "Phosphorus",
 1907 "Ascorbic Acid Method", only the version in the 21st and 22nd
 1908 editions. Referenced in Section 611.611.
 1909
 1910 "SM 4500-P E (05)" means Method 4500-P E, "Phosphorus",
 1911 "Ascorbic Acid Method", only the version in the 23rd edition.
 1912 Referenced in Section 611.611.

1913
1914 "SM 4500-P F (88)" means Method 4500-P F, "Phosphorus",
1915 "Automated Ascorbic Acid Reduction Method", only the version
1916 in the 18th edition. Referenced in Section 611.611.
1917
1918 "SM 4500-P F (93)" means Method 4500-P F, "Phosphorus",
1919 "Automated Ascorbic Acid Reduction Method", only the version
1920 in the 19th edition. Referenced in Section 611.611.
1921
1922 "SM 4500-P F (97)" means Method 4500-P F, "Phosphorus",
1923 "Automated Ascorbic Acid Reduction Method", only the version
1924 in the 20th edition. Referenced in Section 611.611.
1925
1926 "SM 4500-P F (99)" means Method 4500-P F, "Phosphorus",
1927 "Automated Ascorbic Acid Reduction Method", only the version
1928 in the 21st and 22nd editions. Referenced in Section 611.611.
1929
1930 "SM 4500-P F (05)" means Method 4500-P F, "Phosphorus",
1931 "Automated Ascorbic Acid Reduction Method", only the version
1932 in the 23rd edition. Referenced in Section 611.611.
1933
1934 "SM 4500-Si D (88)" means Method 4500-Si D, "Silica",
1935 "Molybdosilicate Method", only the version in the 18th edition.
1936 Referenced in Section 611.611.
1937
1938 "SM 4500-Si D (93)" means Method 4500-Si D, "Silica",
1939 "Molybdosilicate Method", only the version in the 19th edition.
1940 Referenced in Section 611.611.
1941
1942 "SM 4500-Si E (88)" means Method 4500-Si E, "Silica",
1943 "Molybdosilicate Method", only the version in the 18th edition.
1944 Referenced in Section 611.611.
1945
1946 "SM 4500-Si E (93)" means Method 4500-Si E, "Silica",
1947 "Molybdosilicate Method", only the version in the 19th edition.
1948 Referenced in Section 611.611.
1949
1950 "SM 4500-Si F (88)" means Method 4500-Si F, "Silica",
1951 "Molybdosilicate Method", only the version in the 18th edition.
1952 Referenced in Section 611.611.
1953

1954 "SM 4500-Si F (93)" means Method 4500-Si F, "Silica",
 1955 "Molybdosilicate Method", only the version in the 19th edition.
 1956 Referenced in Section 611.611.
 1957
 1958 "SM 4500-SiO₂ C (97)" means Method 4500-SiO₂ C, "Silica",
 1959 "Molybdosilicate Method", only the version in the 20th, 21st, 22nd,
 1960 and 23rd editions. Referenced in Section 611.611.
 1961
 1962 "SM 4500-SiO₂ D (97)" means Method 4500-SiO₂ D, "Silica",
 1963 "Heteropoly Blue Method", only the version in the 20th, 21st, 22nd,
 1964 and 23rd editions. Referenced in Section 611.611.
 1965
 1966 "SM 4500-SiO₂ E (97)" means Method 4500-SiO₂ E, "Silica",
 1967 "Automated Method for Molybdate-Reactive Silica", only the
 1968 version in the 20th, 21st, 22nd, and 23rd editions. Referenced in
 1969 Section 611.611.
 1970
 1971 "SM 5310 B (92)" means Method 5310 B, "Total Organic Carbon
 1972 (TOC)", "Combustion-Infrared Method", only the version in the
 1973 supplement to the 19th edition. Referenced in Section 611.381.
 1974
 1975 "SM 5310 B (96)" means Method 5310 B, "Total Organic Carbon
 1976 (TOC)", "High-Temperature Combustion Method", only the
 1977 version in the 20th edition. Referenced in Section 611.381.
 1978
 1979 "SM 5310 B (00)" means Method 5310 B, "Total Organic Carbon
 1980 (TOC)", "High-Temperature Combustion Method", only the
 1981 version in the 21st and 22nd editions. Referenced in Section
 1982 611.381.
 1983
 1984 "SM 5310 B (14)" means Method 5310 B, "Total Organic Carbon
 1985 (TOC)", "High-Temperature Combustion Method", only the
 1986 version in the 23rd edition. Referenced in Section 611.381.
 1987
 1988 "SM 5310 C (92)" means Method 5310 C, "Total Organic Carbon
 1989 (TOC)", "Persulfate-Ultraviolet Oxidation Method", only the
 1990 version in the supplement to the 19th edition. Referenced in
 1991 Section 611.381.
 1992
 1993 "SM 5310 C (96)" means Method 5310 C, "Total Organic Carbon
 1994 (TOC)", "Persulfate-Ultraviolet or Heated-Persulfate Oxidation
 1995 Method", only the version in the 20th edition. Referenced in
 1996 Section 611.381.

1997	
1998	
1999	
2000	"SM 5310 C (00)" means Method 5310 C, "Total Organic Carbon (TOC)", "Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method", only the version in the 21 st and 22 nd editions. Referenced in Section 611.381.
2001	
2002	
2003	
2004	"SM 5310 C (14)" means Method 5310 C, "Total Organic Carbon (TOC)", "Persulfate-Ultraviolet or Heated-Persulfate Oxidation Method", only the version in the 23 rd edition. Referenced in Section 611.381.
2005	
2006	
2007	
2008	
2009	"SM 5310 D (92)" means Method 5310 D, "Total Organic Carbon (TOC)", "Wet-Oxidation Method", only the version in the supplement to the 19 th edition. Referenced in Section 611.381.
2010	
2011	
2012	"SM 5310 D (96)" means Method 5310 D, "Total Organic Carbon (TOC)", "Wet-Oxidation Method", only the version in the 20 th edition. Referenced in Section 611.381.
2013	
2014	
2015	
2016	
2017	"SM 5310 D (00)" means Method 5310 D, "Total Organic Carbon (TOC)", "Wet-Oxidation Method", only the version in the 21 st and 22 nd editions. Referenced in Section 611.381.
2018	
2019	
2020	
2021	"SM 5910 B (94)" means Method 5910 B, "UV-Absorbing Organic Constituents", "Ultraviolet Absorption Method", only the version in the 19 th and 20 th editions. Referenced in Section 611.381.
2022	
2023	
2024	
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2026	"SM 5910 B (00)" means Method 5910 B, "UV-Absorbing Organic Constituents", "Ultraviolet Absorption Method", only the version in the 21 st edition. Referenced in Section 611.381.
2027	
2028	
2029	
2030	"SM 5910 B (11)" means Method 5910 B, "UV-Absorbing Organic Constituents", "Ultraviolet Absorption Method", only the version in the 22 nd edition. Referenced in Section 611.381.
2031	
2032	
2033	
2034	"SM 5910 B (13)" means Method 5910 B, "UV-Absorbing Organic Constituents", "Ultraviolet Absorption Method", only the version in the 23 rd edition. Referenced in Section 611.381.
2035	
2036	
2037	
2038	"SM 6251 B (94)" means Method 6251 B, "Disinfection By-Products: Haloacetic Acids and Trichlorophenol", "Micro Liquid-

2039 Liquid Extraction Gas Chromatographic Method", only the version
2040 in the 19th, 20th, and 21st editions. Referenced in Section 611.381.
2041
2042 "SM 6251 B (07)" means Method 6251 B, "Disinfection By-
2043 Products: Haloacetic Acids and Trichlorophenol", "Micro Liquid-
2044 Liquid Extraction Gas Chromatographic Method", only the version
2045 in the 22nd and 23rd editions. Referenced in Section 611.381.
2046
2047 "SM 6610 (92)" means Method 6610, "Carbamate Pesticides
2048 (Proposed)", only the version in the supplement to the 18th edition
2049 and the 19th edition. Referenced in Section 611.645.
2050
2051 "SM 6610 (96)" means Method 6610, "Carbamate Pesticides",
2052 only the version in the 20th edition. Referenced in Section
2053 611.645.
2054
2055 "SM 6610 B (99)" means Method 6610, "Carbamate Pesticides",
2056 "High-Performance Liquid Chromatographic Method", only the
2057 version in the 21st edition. Referenced in Section 611.645.
2058
2059 "SM 6610 B (04)" means Method 6610, "Carbamate Pesticides",
2060 "High-Performance Liquid Chromatographic Method", only the
2061 version in 22nd and 23rd editions. Referenced in Section 611.645.
2062
2063 "SM 6640 B (01)" means Method 6640 B, "Acidic Herbicide
2064 Compounds", "Micro Liquid-Liquid Extraction Gas
2065 Chromatographic Method", only the version in 21st edition.
2066 Referenced in Section 611.645.
2067
2068 "SM 6640 B (06)" means Method 6640 B, "Acidic Herbicide
2069 Compounds", "Micro Liquid-Liquid Extraction Gas
2070 Chromatographic Method", only the version in 22nd and 23rd
2071 editions. Referenced in Section 611.645.
2072
2073 "SM 6651 B (91)" means Method 6651 B, "Glyphosate Herbicide
2074 (Proposed)", "Liquid Chromatographic Post-Column Fluorescence
2075 Method", only the version in 18th edition, or "Glyphosate
2076 Herbicide", "Liquid Chromatographic Post-Column Fluorescence
2077 Method", in 19th edition. Referenced in Section 611.645.
2078
2079 "SM 6651 B (96)" means Method 6651 B, "Glyphosate Herbicide",
2080 "Liquid Chromatographic Post-Column Fluorescence Method",
2081 only the version in 20th edition. Referenced in Section 611.645.

2082
 2083 "SM 6651 B (00)" means Method 6651 B, "Glyphosate Herbicide",
 2084 "Liquid Chromatographic Post-Column Fluorescence Method",
 2085 only the version in 21st edition. Referenced in Section 611.645.
 2086
 2087 "SM 6651 B (05)" means Method 6651 B, "Glyphosate Herbicide",
 2088 "Liquid Chromatographic Post-Column Fluorescence Method",
 2089 only the version in 22nd and 23rd editions. Referenced in Section
 2090 611.645.
 2091
 2092 "SM 7110 B (85)" means Method 7110 B, "Gross Alpha and Beta
 2093 Radioactivity (Total, Suspended, and Dissolved)", "Counting
 2094 Method", only the version in 17th edition. Referenced in Section
 2095 611.720.
 2096
 2097 "SM 7110 B (91)" means Method 7110 B, "Gross Alpha and Beta
 2098 Radioactivity (Total, Suspended, and Dissolved)", "Evaporation
 2099 Method for Gross Alpha-Beta", only the version in 18th and 19th
 2100 editions. Referenced in Section 611.720.
 2101
 2102 "SM 7110 B (96)" means Method 7110 B, "Gross Alpha and Beta
 2103 Radioactivity (Total, Suspended, and Dissolved)", "Evaporation
 2104 Method for Gross Alpha-Beta", only the version in 20th edition.
 2105 Referenced in Section 611.720.
 2106
 2107 "SM 7110 B (00)" means Method 7110 B, "Gross Alpha and Beta
 2108 Radioactivity (Total, Suspended, and Dissolved)", "Evaporation
 2109 Method for Gross Alpha-Beta", only the version in 21st, 22nd, and
 2110 23rd editions. Referenced in Section 611.720.
 2111
 2112 "SM 7110 C (91)" means Method 7110 C, "Gross Alpha and Beta
 2113 Radioactivity (Total, Suspended, and Dissolved)", "Coprecipitation
 2114 Method for Gross Alpha Radioactivity in Drinking Water
 2115 (Proposed)", only the version in 18th and 19th editions. Referenced
 2116 in Section 611.720.
 2117
 2118 "SM 7110 C (96)" means Method 7110 C, "Gross Alpha and Beta
 2119 Radioactivity (Total, Suspended, and Dissolved)", "Coprecipitation
 2120 Method for Gross Alpha Radioactivity in Drinking Water", only
 2121 the version in 20th edition. Referenced in Section 611.720.
 2122
 2123 "SM 7110 C (00)" means Method 7110 C, "Gross Alpha and Beta
 2124 Radioactivity (Total, Suspended, and Dissolved)", "Coprecipitation

2125 Method for Gross Alpha Radioactivity in Drinking Water", only
2126 the version in 21st, 22nd, and 23rd editions. Referenced in Section
2127 611.720.
2128
2129 "SM 7110 D (17)" means Method 7110 D, "Gross Alpha and Beta
2130 Radioactivity (Total, Suspended, and Dissolved)", "Liquid
2131 Scintillation Spectroscopic Method for Gross Alpha-Beta
2132 Radioactivity in Drinking Water", only the version from Standard
2133 Methods Online as Method 7110 D-17. Referenced in Section
2134 611.720.
2135
2136 "SM 7120 (94)" means Method 7120, "Gamma-Emitting
2137 Radionuclides", only the version in the 19th edition. Referenced in
2138 Section 611.720.
2139
2140 "SM 7120 (97)" means Method 7120, "Gamma-Emitting
2141 Radionuclides", only the version in the 20th, 21st, 22nd, and 23rd
2142 editions. Referenced in Section 611.720.
2143
2144 "SM 7500-Cs B (88)" means Method 7500-Cs B, "Radioactive
2145 Cesium", "Precipitation Method", only the version in the 17th and
2146 18th editions. Referenced in Section 611.720.
2147
2148 "SM 7500-Cs B (93)" means Method 7500-Cs B, "Radioactive
2149 Cesium", "Precipitation Method", only the version in the 19th and
2150 20th editions. Referenced in Section 611.720.
2151
2152 "SM 7500-Cs B (00)" means Method 7500-Cs B, "Radioactive
2153 Cesium", "Precipitation Method", only the version in the 21st, 22nd,
2154 and 23rd editions. Referenced in Section 611.720.
2155
2156 "SM 7500-I B (88)" means Method 7500-I B, "Radioactive
2157 Iodine", "Precipitation Method", only the version in the 17th and
2158 18th editions. Referenced in Section 611.720.
2159
2160 "SM 7500-I B (93)" means Method 7500-I B, "Radioactive
2161 Iodine", "Precipitation Method", only the version in the 19th and
2162 20th editions. Referenced in Section 611.720.
2163
2164 "SM 7500-I B (00)" means Method 7500-I B, "Radioactive
2165 Iodine", "Precipitation Method", only the version in the 21st, 22nd,
2166 and 23rd editions. Referenced in Section 611.720.
2167

2168 "SM 7500-I C (88)" means Method 7500-I C, "Radioactive
2169 Iodine", "Ion-Exchange Method", only the version in the 17th and
2170 18th editions. Referenced in Section 611.720.
2171
2172 "SM 7500-I C (93)" means Method 7500-I C, "Radioactive
2173 Iodine", "Ion-Exchange Method", only the version in the 19th and
2174 20th editions. Referenced in Section 611.720.
2175
2176 "SM 7500-I C (00)" means Method 7500-I C, "Radioactive
2177 Iodine", "Ion-Exchange Method", only the version in the 21st, 22nd,
2178 and 23rd editions. Referenced in Section 611.720.
2179
2180 "SM 7500-I D (88)" means Method 7500-I D, "Radioactive
2181 Iodine", "Distillation Method", only the version in the 17th and 18th
2182 editions. Referenced in Section 611.720.
2183
2184 "SM 7500-I D (93)" means Method 7500-I D, "Radioactive
2185 Iodine", "Distillation Method", only the version in the 19th and 20th
2186 editions. Referenced in Section 611.720.
2187
2188 "SM 7500-I D (00)" means Method 7500-I D, "Radioactive
2189 Iodine", "Distillation Method", only the version in the 21st, 22nd,
2190 and 23rd editions. Referenced in Section 611.720.
2191
2192 "SM 7500-Ra B (88)" means Method 7500-Ra B, "Radium",
2193 "Precipitation Method", only the version in the 17th and 18th
2194 editions. Referenced in Section 611.720.
2195
2196 "SM 7500-Ra B (93)" means Method 7500-Ra B, "Radium",
2197 "Precipitation Method", only the version in the 19th and 20th
2198 editions. Referenced in Section 611.720.
2199
2200 "SM 7500-Ra B (01)" means Method 7500-Ra B, "Radium",
2201 "Precipitation Method", only the version in the 21st, 22nd, and 23rd
2202 editions. Referenced in Section 611.720.
2203
2204 "SM 7500-Ra C (88)" means Method 7500-Ra C, "Radium",
2205 "Emanation Method", only the version in the 17th and 18th editions.
2206 Referenced in Section 611.720.
2207
2208 "SM 7500-Ra C (93)" means Method 7500-Ra C, "Radium",
2209 "Emanation Method", only the version in the 19th and 20th editions.
2210 Referenced in Section 611.720.

2211
 2212 "SM 7500-Ra C (01)" means Method 7500-Ra C, "Radium",
 2213 "Emanation Method", only the version in the 21st, 22nd, and 23rd
 2214 editions. Referenced in Section 611.720.
 2215
 2216 "SM 7500-Ra D (88)" means Method 7500-Ra D, "Radium",
 2217 "Sequential Precipitation Method", only the version in the 17th and
 2218 18th editions. Referenced in Section 611.720.
 2219
 2220 "SM 7500-Ra D (93)" means Method 7500-Ra D, "Radium",
 2221 "Sequential Precipitation Method", only the version in the 19th and
 2222 20th editions. Referenced in Section 611.720.
 2223
 2224 "SM 7500-Ra D (01)" means Method 7500-Ra D, "Radium",
 2225 "Sequential Precipitation Method", only the version in the 21st,
 2226 22nd, and 23rd editions. Referenced in Section 611.720.
 2227
 2228 "SM 7500-Ra E (01)" means Method 7500-Ra E, "Radium",
 2229 "Gamma Spectrometry Method", only the version in the 22nd
 2230 edition. Referenced in Section 611.720.
 2231
 2232 "SM 7500-Ra E (07)" means Method 7500-Ra E, "Radium",
 2233 "Gamma Spectrometry Method", only the version in the 23rd
 2234 edition. Referenced in Section 611.720.
 2235
 2236 "SM 7500-Sr B (88)" means Method 7500-Sr B, "Total
 2237 Radioactive Strontium and Strontium 90", "Precipitation Method",
 2238 only the version in the 17th and 18th editions. Referenced in
 2239 Section 611.720.
 2240
 2241 "SM 7500-Sr B (93)" means Method 7500-Sr B, "Total
 2242 Radioactive Strontium and Strontium 90", "Precipitation Method",
 2243 only the version in the 19th and 20th editions. Referenced in
 2244 Section 611.720.
 2245
 2246 "SM 7500-Sr B (01)" means Method 7500-Sr B, "Total
 2247 Radioactive Strontium and Strontium 90", "Precipitation Method",
 2248 only the version in the 21st, 22nd, and 23rd editions. Referenced in
 2249 Section 611.720.
 2250
 2251 "SM 7500-³H B (88)" means Method 7500-³H B, "Tritium",
 2252 "Liquid Scintillation Spectrometric Method", only the version in
 2253 the 17th and 18th editions. Referenced in Section 611.720.

2254
 2255 "SM 7500-³H B (93)" means Method 7500-³H B, "Tritium",
 2256 "Liquid Scintillation Spectrometric Method", only the version in
 2257 the 19th and 20th editions. Referenced in Section 611.720.
 2258
 2259 "SM 7500-³H B (00)" means Method 7500-³H B, "Tritium",
 2260 "Liquid Scintillation Spectrometric Method", only the version in
 2261 the 21st, 22nd, and 23rd editions. Referenced in Section 611.720.
 2262
 2263 "SM 7500-U B (88)" means Method 7500-U B, "Uranium",
 2264 "Radiochemical Method (Proposed)", only the version in the 17th
 2265 edition. Referenced in Section 611.720.
 2266
 2267 "SM 7500-U B (91)" means only Method 7500-U B, "Uranium",
 2268 "Radiochemical Method (Proposed)", the version in the 18th
 2269 edition, and "Uranium", "Radiochemical Method", the version in
 2270 the 19th edition. Referenced in Section 611.720.
 2271
 2272 "SM 7500-U B (96)" means Method 7500-U B, "Uranium",
 2273 "Radiochemical Method", only the version in the 20th edition.
 2274 Referenced in Section 611.720.
 2275
 2276 "SM 7500-U B (00)" means Method 7500-U B, "Uranium",
 2277 "Radiochemical Method", only the version in the 21st, 22nd, and
 2278 23rd editions. Referenced in Section 611.720.
 2279
 2280 "SM 7500-U C (88)" means Method 7500-U C, "Uranium",
 2281 "Fluorometric Method (Proposed)", only the version in the 17th
 2282 edition. Referenced in Section 611.720.
 2283
 2284 "SM 7500-U C (91)" means Method 7500-U C, "Uranium",
 2285 "Isotopic Method (Proposed)", only the version in the 18th and 19th
 2286 editions. Referenced in Section 611.720.
 2287
 2288 "SM 7500-U C (96)" means Method 7500-U C, "Uranium",
 2289 "Isotopic Method", only the version in the 20th edition. Referenced
 2290 in Section 611.720.
 2291
 2292 "SM 7500-U C (00)" means Method 7500-U C, "Uranium",
 2293 "Isotopic Method", only the version in the 21st, 22nd, and 23rd
 2294 editions. Referenced in Section 611.720.
 2295

2296 "SM 9060 A (97)" means Method 9060 A, "Samples",
2297 "Collection", only the version in the 20th and 21st editions.
2298 Referenced in Section 611.1052.
2299
2300 "SM 9215 B (88)" means Method 9215 B, "Heterotrophic Plate
2301 Count", "Pour Plate Method", only the version in the 18th edition.
2302 Referenced in Section 611.531.
2303
2304 "SM 9215 B (94)" means Method 9215 B, "Heterotrophic Plate
2305 Count", "Pour Plate Method", only the version in the 19th and 20th
2306 editions. Referenced in Section 611.531.
2307
2308 "SM 9215 B (00)" means Method 9215 B, "Heterotrophic Plate
2309 Count", "Pour Plate Method", only the version in the 21st edition.
2310 Referenced in Section 611.531.
2311
2312 "SM 9215 B (04)" means Method 9215 B, "Heterotrophic Plate
2313 Count", "Pour Plate Method", only the version in the 22nd edition.
2314 Referenced in Section 611.531.
2315
2316 "SM 9215 B (16)" means Method 9215 B, "Heterotrophic Plate
2317 Count", "Pour Plate Method", only the version in the 23rd edition.
2318 Referenced in Section 611.531.
2319
2320 "SM 9221 A (93)" means Method 9221 A, "Multiple-Tube
2321 Fermentation Technique for Members of the Coliform Group",
2322 "Introduction", only the version in the 18th edition. Referenced in
2323 Section 611.531.
2324
2325 "SM 9221 A (94)" means Method 9221 A, "Multiple-Tube
2326 Fermentation Technique for Members of the Coliform Group",
2327 "Introduction", only the version in the 19th and 20th editions.
2328 Referenced in Section 611.531.
2329
2330 "SM 9221 A (99)" means Method 9221 A, "Multiple-Tube
2331 Fermentation Technique for Members of the Coliform Group",
2332 "Introduction", only the version in the 21st edition. Referenced in
2333 Section 611.531.
2334
2335 "SM 9221 A (06)" means Method 9221 A, "Multiple-Tube
2336 Fermentation Technique for Members of the Coliform Group",
2337 "Introduction", only the version in the 22nd edition. Referenced in
2338 Section 611.531.

2339
2340 "SM 9221 A (14)" means Method 9221 A, "Multiple-Tube
2341 Fermentation Technique for Members of the Coliform Group",
2342 "Introduction", only the version in the 23rd edition. Referenced in
2343 Section 611.531.
2344
2345 "SM 9221 B (93)" means Method 9221 B, "Multiple-Tube
2346 Fermentation Technique for Members of the Coliform Group",
2347 "Standard Total Coliform Fermentation Technique", only the
2348 version in the 18th edition. Referenced in Section 611.531.
2349
2350 "SM 9221 B (94)" means Method 9221 B, "Multiple-Tube
2351 Fermentation Technique for Members of the Coliform Group",
2352 "Standard Total Coliform Fermentation Technique", only the
2353 version in the 19th and 20th editions. Referenced in Sections
2354 611.531 and 611.1052.
2355
2356 "SM 9221 B (99)" means Method 9221 B, "Multiple-Tube
2357 Fermentation Technique for Members of the Coliform Group",
2358 "Standard Total Coliform Fermentation Technique", only the
2359 version in the 21st edition. Referenced in Sections 611.531 and
2360 611.1052.
2361
2362 "SM 9221 B (06)" means Method 9221 B, "Multiple-Tube
2363 Fermentation Technique for Members of the Coliform Group",
2364 "Standard Total Coliform Fermentation Technique", only the
2365 version in the 22nd edition. Referenced in Sections 611.531 and
2366 611.1052.
2367
2368 "SM 9221 B (14)" means Method 9221 B, "Multiple-Tube
2369 Fermentation Technique for Members of the Coliform Group",
2370 "Standard Total Coliform Fermentation Technique", only the
2371 version in the 23rd edition. Referenced in Sections 611.531 and
2372 611.1052.
2373
2374 "SM 9221 C (93)" means Method 9221 C, "Multiple-Tube
2375 Fermentation Technique for Members of the Coliform Group",
2376 "Estimation of Bacterial Density", only the version in the 18th
2377 edition. Referenced in Section 611.531.
2378
2379 "SM 9221 C (94)" means Method 9221 C, "Multiple-Tube
2380 Fermentation Technique for Members of the Coliform Group",

2381 "Estimation of Bacterial Density", only the version in the 19th and
2382 20th editions. Referenced in Section 611.531.
2383
2384 "SM 9221 C (99)" means Method 9221 C, "Multiple-Tube
2385 Fermentation Technique for Members of the Coliform Group",
2386 "Estimation of Bacterial Density", only the version in the 21st
2387 edition. Referenced in Section 611.531.
2388
2389 "SM 9221 C (06)" means Method 9221 C, "Multiple-Tube
2390 Fermentation Technique for Members of the Coliform Group",
2391 "Estimation of Bacterial Density", only the version in the 22nd
2392 edition. Referenced in Section 611.531.
2393
2394 "SM 9221 C (14)" means Method 9221 C, "Multiple-Tube
2395 Fermentation Technique for Members of the Coliform Group",
2396 "Estimation of Bacterial Density", only the version in the 23rd
2397 edition. Referenced in Section 611.531.
2398
2399 "SM 9221 D (94)" means Method 9221 D, "Multiple-Tube
2400 Fermentation Technique for Members of the Coliform Group",
2401 "Presence-Absence (P-A) Coliform", only the version in the 20th
2402 edition. Referenced in Section 611.1052.
2403
2404 "SM 9221 D (99)" means Method 9221 D, "Multiple-Tube
2405 Fermentation Technique for Members of the Coliform Group",
2406 "Presence-Absence (P-A) Coliform", only the version in the 21st
2407 edition. Referenced in Section 611.1052.
2408
2409 "SM 9221 D (14)" means Method 9221 D, "Multiple-Tube
2410 Fermentation Technique for Members of the Coliform Group",
2411 "Presence-Absence (P-A) Coliform", only the version in the 23rd
2412 edition. Referenced in Section 611.1052.
2413
2414 "SM 9221 E (93)" means Method 9221 E, "Multiple-Tube
2415 Fermentation Technique for Members of the Coliform Group",
2416 "Fecal Coliform Procedure", only the version in the 18th edition.
2417 Referenced in Section 611.531.
2418
2419 "SM 9221 E (94)" means Method 9221 E, "Multiple-Tube
2420 Fermentation Technique for Members of the Coliform Group",
2421 "Fecal Coliform Procedure", only the version in the 19th and 20th
2422 editions. Referenced in Section 611.531.
2423

2424 "SM 9221 E (99)" means Method 9221 E, "Multiple-Tube
2425 Fermentation Technique for Members of the Coliform Group",
2426 "Fecal Coliform Procedure", only the version in the 21st edition.
2427 Referenced in Section 611.531.
2428

2429 "SM 9221 E (06)" means Method 9221 E, "Multiple-Tube
2430 Fermentation Technique for Members of the Coliform Group",
2431 "Fecal Coliform Procedure", only the version in the 22nd edition.
2432 Referenced in Section 611.531.
2433

2434 "SM 9221 E (14)" means Method 9221 E, "Multiple-Tube
2435 Fermentation Technique for Members of the Coliform Group",
2436 "Thermotolerant (Fecal) Coliform Procedure", only the version in
2437 the 23rd edition. Referenced in Section 611.531.
2438

2439 "SM 9221 F (94)" means Method 9221 F, "Multiple-Tube
2440 Fermentation Technique for Members of the Coliform Group",
2441 "Escherichia Coli Procedure (Proposed)", only the version in the
2442 20th edition. Referenced in Sections 611.802 and 611.1052.
2443

2444 "SM 9221 F (06)" means Method 9221 F, "Multiple-Tube
2445 Fermentation Technique for Members of the Coliform Group",
2446 "Escherichia Coli Procedure Using Fluorogenic Substrate", only
2447 the version in the 22nd edition. Referenced in Sections 611.802
2448 and 611.1052.
2449

2450 "SM 9221 F (14)" means Method 9221 F, "Multiple-Tube
2451 Fermentation Technique for Members of the Coliform Group",
2452 "Escherichia Coli Procedure Using Fluorogenic Substrate", only
2453 the version in the 23rd edition. Referenced in Sections 611.802 and
2454 611.1052.
2455

2456 "SM 9222 A (91)" means Method 9222 A, "Membrane Filter
2457 Technique for Members of the Coliform Group", "Introduction",
2458 only the version in the 18th edition. Referenced in Section
2459 611.531.
2460

2461 "SM 9222 A (94)" means Method 9222 A, "Membrane Filter
2462 Technique for Members of the Coliform Group", "Introduction",
2463 only the version in the 19th edition. Referenced in Section
2464 611.531.
2465

2466 "SM 9222 A (97)" means Method 9222 A, "Membrane Filter
2467 Technique for Members of the Coliform Group", "Introduction",
2468 only the version in the 20th and 21st editions. Referenced in
2469 Section 611.531.
2470
2471 "SM 9222 A (06)" means Method 9222 A, "Membrane Filter
2472 Technique for Members of the Coliform Group", "Introduction",
2473 only the version in the 22nd edition. Referenced in Section
2474 611.531.
2475
2476 "SM 9222 A (15)" means Method 9222 A, "Membrane Filter
2477 Technique for Members of the Coliform Group", "Introduction",
2478 only the version in the 23rd edition. Referenced in Section
2479 611.531.
2480
2481 "SM 9222 B (91)" means Method 9222 B, "Membrane Filter
2482 Technique for Members of the Coliform Group", "Standard Total
2483 Coliform Membrane Filter Procedure", only the version in the 18th
2484 edition. Referenced in Section 611.531.
2485
2486 "SM 9222 B (94)" means Method 9222 B, "Membrane Filter
2487 Technique for Members of the Coliform Group", "Standard Total
2488 Coliform Membrane Filter Procedure", only the version in the 19th
2489 edition. Referenced in Section 611.531.
2490
2491 "SM 9222 B (97)" means Method 9222 B, "Membrane Filter
2492 Technique for Members of the Coliform Group", "Standard Total
2493 Coliform Membrane Filter Procedure", only the version in the 20th
2494 and 21st editions. Referenced in Sections 611.531 and 611.1052.
2495
2496 "SM 9222 B (15)" means Method 9222 B, "Membrane Filter
2497 Technique for Members of the Coliform Group", "Standard Total
2498 Coliform Membrane Filter Procedure using Endo Media", only the
2499 version in the 23rd edition. Referenced in Sections 611.531 and
2500 611.1052.
2501
2502 "SM 9222 C (91)" means Method 9222 C, "Membrane Filter
2503 Technique for Members of the Coliform Group", "Delayed-
2504 Incubation Total Coliform Procedure", only the version in the 18th
2505 edition. Referenced in Section 611.531.
2506
2507 "SM 9222 C (94)" means Method 9222 C, "Membrane Filter
2508 Technique for Members of the Coliform Group", "Delayed-

2509 Incubation Total Coliform Procedure", only the version in the 19th
2510 edition. Referenced in Section 611.531.
2511
2512 "SM 9222 C (97)" means Method 9222 C, "Membrane Filter
2513 Technique for Members of the Coliform Group", "Delayed-
2514 Incubation Total Coliform Procedure", only the version in the 20th
2515 and 21st editions. Referenced in Sections 611.531 and 611.1052.
2516
2517 "SM 9222 C (15)" means Method 9222 C, "Membrane Filter
2518 Technique for Members of the Coliform Group", "Delayed-
2519 Incubation Total Coliform Procedure", only the version in the 23rd
2520 edition. Referenced in Sections 611.531 and 611.1052.
2521
2522 "SM 9222 D (91)" means Method 9222 D, "Membrane Filter
2523 Technique for Members of the Coliform Group", "Fecal Coliform
2524 Membrane Filter Procedure", only the version in the 18th edition.
2525 Referenced in Section 611.531.
2526
2527 "SM 9222 D (94)" means Method 9222 D, "Membrane Filter
2528 Technique for Members of the Coliform Group", "Fecal Coliform
2529 Membrane Filter Procedure", only the version in the 19th edition.
2530 Referenced in Section 611.531.
2531
2532 "SM 9222 D (97)" means Method 9222 D, "Membrane Filter
2533 Technique for Members of the Coliform Group", "Fecal Coliform
2534 Membrane Filter Procedure", only the version in the 20th and 21st
2535 editions. Referenced in Sections 611.531 and 611.1004.
2536
2537 "SM 9222 D (06)" means Method 9222 D, "Membrane Filter
2538 Technique for Members of the Coliform Group", "Thermotolerant
2539 (Fecal) Coliform Membrane Filter Procedure", only the version in
2540 the 22nd edition. Referenced in Section 611.531.
2541
2542 "SM 9222 D (15)" means Method 9222 D, "Membrane Filter
2543 Technique for Members of the Coliform Group", "Thermotolerant
2544 (Fecal) Coliform Membrane Filter Procedure", only the version in
2545 the 23rd edition. Referenced in Section 611.531.
2546
2547 "SM 9222 G (97)" means Method 9222 G, "Membrane Filter
2548 Technique for Members of the Coliform Group", "MF Partition
2549 Procedure", only the version in the 20th and 21st editions.
2550 Referenced in Sections 611.802, 611.1004, and 611.1052.
2551

2552 "SM 9222 H (15)" means Method 9222 H, "Membrane Filter
 2553 Technique for Members of the Coliform Group", "Partitioning E.
 2554 coli from MF Total Coliform and E. coli using EC-MUG Broth",
 2555 only the version in the 23rd edition. Referenced in Section
 2556 611.1052.
 2557

2558 "SM 9222 I (15)" means Method 9222 I, "Membrane Filter
 2559 Technique for Members of the Coliform Group", "Partitioning E.
 2560 coli from MF Total Coliform and E. coli using NA-MUG Agar",
 2561 only the version in the 23rd edition. Referenced in Sections
 2562 611.802 and 611.1052.
 2563

2564 "SM 9222 J (15)" means Method 9222 J, "Membrane Filter
 2565 Technique for Members of the Coliform Group", "Simultaneous
 2566 Detection of Total Coliform and E. coli by Dual-Chromogen
 2567 Membrane Filter Procedure", only the version in the 23rd edition.
 2568 Referenced in Sections 611.802 and 611.1052.
 2569

2570 "SM 9223 (92)" means Method 9223, "Chromogenic Substrate
 2571 Coliform Test (Proposed)" (also referred to as the variations
 2572 "Colilert[®]" and "Colisure[™]" depending on the medium used), only
 2573 the version in the 18th edition. Referenced in Section 611.531.
 2574

2575 "SM 9223 (94)" means Method 9223, "Chromogenic Substrate
 2576 Coliform" (also referred to as the variations "Colilert[®]" and
 2577 "Colisure[™]" depending on the medium used), only the version in
 2578 the 19th edition. Referenced in Section 611.531.
 2579

2580 "SM 9223 (97)" means Method 9223, "Enzyme Substrate
 2581 Coliform" (also referred to as the variations "Colilert[®]" and
 2582 "Colisure[™]" depending on the medium used), only the version in
 2583 the 20th and 21st editions. Referenced in Sections 611.531.
 2584

2585 "SM 9223 B (92)" means Method 9223 B, "Chromogenic
 2586 Substrate Coliform Test (Proposed)", "Chromogenic Substrate"
 2587 (also referred to as the variations "Colilert[®]", "Colisure[™]", and
 2588 "Colilert-18[®]" depending on the medium used), only the version in
 2589 the 18th edition. Referenced in Section 611.1004.
 2590

2591 "SM 9223 B (94)" means Method 9223 B, "Chromogenic
 2592 Substrate Coliform", "Chromogenic Substrate" (also referred to as
 2593 the variations "Colilert[®]" and "Colisure[™]" depending on the

2594 medium used), only the version in the 19th edition. Referenced in
 2595 Section 611.1004.

2596
 2597 "SM 9223 B (97)" means Method 9223 B, "Enzyme Substrate
 2598 Coliform", "Chromogenic Substrate" (also referred to as the
 2599 variations "Colilert[®]" and "Colisure[™]" depending on the medium
 2600 used), only the version in the 20th and 21st editions. Referenced in
 2601 Sections 611.802 and 611.1004.

2602
 2603 "SM 9223 B (04)" means Method 9223 B, "Enzyme Substrate
 2604 Coliform", "Enzyme Substrate" (also referred to as the variations
 2605 "Colilert[®]" and "Colisure[™]" depending on the medium used), only
 2606 the version in the 22nd edition. Referenced in Sections 611.531,
 2607 611.802, and 611.1004.

2608
 2609 "SM 9223 B (16)" means Method 9223 B, "Enzyme Substrate
 2610 Coliform", "Enzyme Substrate" (also referred to as the variations
 2611 "Colilert[®]" and "Colisure[™]" depending on the medium used), only
 2612 the version in the 23rd edition. Referenced in Sections 611.531,
 2613 611.802, and 611.1052.

2614
 2615 "SM 9230 B (93)" means Method 9230 B, "Fecal Streptococcus
 2616 and Enterococcus Groups", "Multiple-Tube Techniques", only the
 2617 version in the 20th and 21st editions. Referenced in Section
 2618 611.802.

2619
 2620 "SM 9230 B (04)" means Method 9230 B, "Fecal Streptococcus
 2621 and Enterococcus Groups", "Multiple-Tube Techniques", only the
 2622 version from Standard Methods Online as Method 9230 B-04.
 2623 Referenced in Section 611.802.

2624
 2625 "SM 9230 C (93)" means Method 9230 C, "Fecal Streptococcus
 2626 and Enterococcus Groups", "Membrane Filter Techniques", only
 2627 the version in the 20th edition. Referenced in Section 611.802.

2628
 2629 "SM 9230 C (13)" means Method 9230 C, "Fecal
 2630 Enterococcus/Streptococcus Groups", "Membrane Filter
 2631 Techniques", only the version in the 23rd edition. Referenced in
 2632 Section 611.802.

2633
 2634 "SM 9230 D (13)" means Method 9230 D, "Fecal
 2635 Enterococcus/Streptococcus Groups", "Fluorogenic Substrate

2636 Enterococcus", only the version in the 23rd edition. Referenced in
2637 Section 611.802.

2638
2639 BOARD NOTE: The publication dates of the several editions of
2640 "Standard Methods for the Examination of Water and Wastewater"
2641 that contain approved methods are as follows:

2642
2643 13th edition, 1971
2644 17th edition, 1989
2645 18th edition, 1992
2646 Supplement to 18th edition, 1994
2647 19th edition, 1995
2648 Supplement to 19th edition, 1996
2649 20th edition, 1998
2650 21st edition, 2005
2651 22nd edition, 2012
2652 23rd edition, 2017

2653
2654 "Syngenta AG-625 (01)" means "Method AG-625: Atrazine in Drinking
2655 Water by Immunoassay" (February 2001), Syngenta Crop Protection, Inc.
2656 Available from publisher, 410 Swing Road, Post Office Box 18300,
2657 Greensboro, NC 27419 (336-632-6000). Referenced in Section 611.645.

2658
2659 "Systea Easy (1-Reagent) (09)" means "Nitrate by Discrete Analysis:
2660 Systea Easy (1-Reagent) Nitrate Method (Colorimetric, Automated, 1
2661 Reagent)" (February 4, 2009). Available from Systea Scientific LLC, 900
2662 Jorie Blvd., Suite 35, Oak Brook, IL 60523 (630-645-0600); NEMI; and
2663 USEPA, OGWDW (under "Inorganic Contaminants and Other Inorganic
2664 Constituents (PDF)"). Referenced in Section 611.611.

2665
2666 Technicon Methods. Available from Bran + Luebbe, 1025 Busch
2667 Parkway, Buffalo Grove, IL 60089.

2668
2669 "Technicon #129-71W (72)" means "Fluoride in Water and
2670 Wastewater" (December 1972), Industrial Method #129-71W.
2671 Referenced in Section 611.611. See 40 CFR 141.23(k)(1),
2672 footnote 11.

2673
2674 "Technicon #380-75WE (76)" means "Fluoride in Water and
2675 Wastewater" (February 1976), #380-75WE. See 40 CFR
2676 141.23(k)(1), footnote 11, referenced in Section 611.611.

2677

2678 Tecta Methods. Available from Pathogen Detection Systems, Inc., 382
2679 King Street, Kingston, Ontario, Canada K7K 2Y2 (844-215-7122 or
2680 www.tecta-pds.ca) and USEPA, OGWDW (under "Ground Water Rule
2681 (PDF)" and "Revised Total Coliforms Rules (PDF)").

2682
2683 "Tecta (14)" means "TECTA™ EC/TC medium and the TECTA™
2684 Instrument: a Presence/Absence Method for Simultaneous
2685 Detection of Total Coliforms and Escherichia coli (E.coli) in
2686 Drinking Water", Version 1.0 (May 22, 2014). Referenced in
2687 Sections 611.802 and 611.1052.

2688
2689 "Tecta (17)" means "TECTA™ EC/TC medium and the TECTA™
2690 Instrument: a Presence/Absence Method for Simultaneous
2691 Detection of Total Coliforms and Escherichia coli (E.coli) in
2692 Drinking Water", Version 2.0 (March 20, 2017). Referenced in
2693 Sections 611.802 and 611.1052.

2694
2695 "Thermo-Fisher 557.1 (17)" means "Thermofisher Method 557.1:
2696 Determination of Haloacetic Acids in Drinking Water using Two-
2697 Dimensional Ion Chromatography with Suppressed Conductivity
2698 Detection", Version 1.0 (January 2017). Available from Thermo-Fisher
2699 Scientific, 490 Lakeside Dr, Sunnyvale, CA 94085 (800-556-2323;
2700 www.thermofisher.com) and USEPA, OGWDW (under "Disinfection
2701 Byproduct Rules (PDF)"). Referenced in Section 611.611.

2702
2703 "Thermo-Fisher Discrete Analyzer (16)" means "Application Note:
2704 Drinking Water Orthophosphate Method for Thermo Scientific Gallery
2705 Discrete Analyzer", Revision 5 (February 18, 2016). Available from
2706 Thermo-Fisher Scientific, Ratastie 2, 01620 Vantaa, Finland and USEPA,
2707 OGWDW (under "Inorganic Contaminants and Other Inorganic
2708 Constituents (PDF)"). Referenced in Section 611.611.

2709
2710 USEPA Methods

2711
2712 Numbered Methods

2713
2714 "USEPA H-02 (84)" means Method H-02, "Radiochemical
2715 Determination of Tritium in Water – Dioxane Method", in
2716 USEPA Radiochemistry Procedures (84). Referenced in
2717 Section 611.720.

2718 BOARD NOTE: Also available from USEPA, OGWDW
2719 (under "Radionuclides (PDF)").

2720

2721 "USEPA Ra-03 (84)" means Method Ra-03,
2722 "Radiochemical Determination of Radium-226 in Water
2723 Samples", in USEPA Radiochemistry Procedures (84).
2724 Referenced in Section 611.720.
2725 BOARD NOTE: Also available from USEPA, OGWDW
2726 (under "Radionuclides (PDF)").

2727
2728 "USEPA Ra-04 (84)" means Method Ra-04,
2729 "Radiochemical Determination of Radium-226 – De-
2730 emanation Procedure", in USEPA Radiochemistry
2731 Procedures (84). Referenced in Section 611.720.
2732 BOARD NOTE: Also available from USEPA, OGWDW
2733 (under "Radionuclides (PDF)").

2734
2735 "USEPA Ra-05 (84)" means Method Ra-05,
2736 "Radiochemical Determination of Radium-228 in Water
2737 Samples", in USEPA Radiochemistry Procedures (84).
2738 Referenced in Section 611.720.
2739 BOARD NOTE: Also available from USEPA, OGWDW
2740 (under "Radionuclides (PDF)").

2741
2742 "USEPA Sr-04 (84)" means Method Sr-04, "Radiochemical
2743 Determination of Radiostrontium in Water, Sea Water and
2744 Other Aqueous Media", in USEPA Radiochemistry
2745 Procedures (84). Referenced in Section 611.720.
2746 BOARD NOTE: Also available from USEPA, OGWDW
2747 (under "Radionuclides (PDF)").

2748
2749 "USEPA 00-01 (84)" means Method 00-01,
2750 "Radiochemical Determination of Gross Alpha and Gross
2751 Beta Activity in Water", in USEPA Radiochemistry
2752 Procedures (84). Referenced in Section 611.720.
2753 BOARD NOTE: Also available from USEPA, OGWDW
2754 (under "Radionuclides (PDF)").

2755
2756 "USEPA 00-02 (84)" means Method 00-02,
2757 "Radiochemical Determination of Gross Alpha Activity in
2758 Drinking Water by Coprecipitation", in USEPA
2759 Radiochemistry Procedures (84). Referenced in Section
2760 611.720.
2761 BOARD NOTE: Also available from USEPA, OGWDW
2762 (under "Radionuclides (PDF)").
2763

2764 "USEPA 00-07 (84)" means Method 00-07,
2765 "Radiochemical Determination of Thorium and Uranium in
2766 Water", in USEPA Radiochemistry Procedures (84).
2767 Referenced in Section 611.720.
2768 BOARD NOTE: Also available from USEPA, OGWDW
2769 (under "Radionuclides (PDF)").
2770
2771 "USEPA 100.1 (83)" means "Method 100.1: Analytical
2772 Method for Determination of Asbestos in Water"
2773 (September 1983), USEPA, Environmental Research
2774 Laboratory, document number EPA 600/4-83-043.
2775 Available from NEMI; NTRL (document number PB83-
2776 260471) and USEPA, NSCEP (search for "600483043").
2777 Referenced in Section 611.611.
2778
2779 "USEPA 100.2 (94)" means "Method 100.2:
2780 Determination of Asbestos Structures over 10-mm in
2781 Length in Drinking Water" (June 1994), USEPA,
2782 Environmental Monitoring Systems Laboratory, document
2783 number EPA 600/R-94-134. Available from NEMI; NTRL
2784 (document number PB94-201902); USEPA, NSCEP
2785 (search for "600R94134"); and USEPA, OGWDW (under
2786 "Inorganic Contaminants and Other Inorganic Constituents
2787 (PDF)"). Referenced in Section 611.611.
2788
2789 "USEPA 150.1 (71)" means "pH: Method 150.1
2790 (Electrometric)" (1971), in USEPA Inorganic Methods
2791 (83). Referenced in Section 611.611.
2792 BOARD NOTE: Also individually available from NEMI.
2793
2794 "USEPA 150.2 (82)" means "pH, Continuous Monitoring
2795 (Electrometric) – Method 150.2" (December 1982), in
2796 USEPA Inorganic Methods (83). Referenced in Section
2797 611.611.
2798 BOARD NOTE: Also individually available from NEMI.
2799
2800 "USEPA 150.3 (17)" means "Method 150.3:
2801 Determination of pH in Drinking Water", Version 1.0
2802 (February 2017), USEPA, Office of Ground Water and
2803 Drinking Water, document number EPA 815/B-17/001.
2804 Available from USEPA, NSCEP (search for "815B17001")
2805 and USEPA, OGWDW (under "Disinfection Byproduct
2806 Rules (PDF)" and "Inorganic Contaminants and Other

2807 Inorganic Constituents (PDF)"). Referenced in Section
2808 611.611.

2809
2810 "USEPA 180.1 (93)" means "Method 180.1:
2811 Determination of Turbidity by Nephelometry", Revision
2812 2.0 (August 1993), in USEPA Environmental Inorganic
2813 Methods (93). Referenced in Section 611.531.
2814 BOARD NOTE: Also individually available from NEMI.

2815
2816 "USEPA 200.5 (03)" means "Method 200.5:
2817 Determination of Trace Elements in Drinking Water by
2818 Axially Viewed Inductively Coupled Plasma-Atomic
2819 Emission Spectrometry", Revision 4.2 (October 2003),
2820 USEPA, National Exposure Research Laboratory,
2821 document number EPA 600/R-06/115. Available from
2822 NEMI; USEPA, NSCEP (search for "600R06115"); and
2823 USEPA, OGWDW (under "Disinfection Byproduct Rules
2824 (PDF)," "Inorganic Contaminants and Other Inorganic
2825 Constituents (PDF)," and "Secondary Contaminants
2826 (PDF)"). Referenced in Sections 611.611 and 611.612.

2827
2828 "USEPA 200.7 (94)" means "Method 200.7:
2829 Determination of Metals and Trace Elements in Water and
2830 Wastes by Inductively Coupled Plasma-Atomic Emission
2831 Spectrometry", Revision 4.4 (May 1994), in USEPA
2832 Environmental Metals Methods (94). Referenced in
2833 Sections 611.600, 611.611, and 611.612.
2834 BOARD NOTE: Also individually available from NEMI.

2835
2836 "USEPA 200.8 (94)" means "Method 200.8:
2837 Determination of Trace Elements in Water and Wastes by
2838 Inductively Coupled Plasma-Atomic Emission
2839 Spectrometry", Revision 5.3 (May 1994), in USEPA
2840 Environmental Metals Methods (94). Referenced in
2841 Sections 611.600, 611.611, 611.612, and 611.720.
2842 BOARD NOTE: Also individually available from NEMI.

2843
2844 "USEPA 200.9 (94)" means "Method 200.9:
2845 Determination of Metals and Trace Elements in Water by
2846 Ultrasonic Nebulization Inductively Coupled Plasma-
2847 Atomic Emission Spectrometry", Revision 2.2 (May 1994),
2848 in USEPA Environmental Metals Methods (94).
2849 Referenced in Sections 611.600, 611.611, and 611.612.

2850 BOARD NOTE: Also individually available from NEMI.
2851
2852 "USEPA 245.1 (91)" means "Method 245.1:
2853 Determination of Mercury in Water by Cold Vapor Atomic
2854 Absorption Spectrometry", Revision 2.3 (April 1991), in
2855 USEPA Environmental Metals Methods (94). Referenced
2856 in Section 611.611.
2857 BOARD NOTE: Also individually available from NEMI.
2858
2859 "USEPA 245.2 (74)" means "Mercury: Method 245.2
2860 (Automated Cold Vapor Technique)" (1974), in USEPA
2861 Inorganic Methods (83). Referenced in Section 611.611.
2862 BOARD NOTE: Also individually available from NEMI.
2863
2864 "USEPA 300.0 (93)" means "Method 300.0:
2865 Determination of Inorganic Anions by Ion
2866 Chromatography", Revision 2.1 (August 1993), in USEPA
2867 Environmental Inorganic Methods (93). Referenced in
2868 Sections 611.381 and 611.611.
2869 BOARD NOTE: Also individually available from NEMI.
2870
2871 "USEPA 300.1 (97)" means "Method 300.1:
2872 Determination of Inorganic Anions in Drinking Water by
2873 Ion Chromatography", Revision 1.0 (September 1997), in
2874 USEPA Organic and Inorganic Methods (00). Referenced
2875 in Sections 611.381 and 611.611.
2876 BOARD NOTE: Also individually available from NEMI.
2877
2878 "USEPA 302.0 (09)" means "Method 302.0:
2879 Determination of Bromate in Drinking Water Using Two-
2880 Dimensional Ion Chromatography with Suppressed
2881 Conductivity Detection" (September 2009), USEPA, Office
2882 of Water, document number EPA 815/B-09/014. Available
2883 from NEMI; USEPA, NSCEP (search "815B09014"); and
2884 USEPA, OGWDW (under "Disinfection Byproduct Rules
2885 (PDF)"). Referenced in Sections 611.381 and 611.382.
2886
2887 "USEPA 317.0 (01)" means "Method 317.0:
2888 Determination of Inorganic Oxyhalide Disinfection By-
2889 Products in Drinking Water Using Ion Chromatography
2890 with the Addition of a Postcolumn Reagent for Trace
2891 Bromate Analysis", Revision 2.0 (July 2001), USEPA,
2892 Office of Ground Water and Drinking Water, Technical

2893 Support Center, document number EPA 815/B-01/001.
2894 Available from NEMI; USEPA, NSCEP (search
2895 "815B01001"); and USEPA, OGWDW (under
2896 "Disinfection Byproduct Rules (PDF)"). Referenced in
2897 Sections 611.381 and 611.382.
2898
2899 "USEPA 321.8 (97)" means "Method 321.8:
2900 Determination of Bromate in Drinking Waters by Ion
2901 Chromatography Inductively Coupled Plasma/Mass
2902 Spectrometry", Revision 1.0 (December 1997), in USEPA
2903 Organic and Inorganic Methods (00). Referenced in
2904 Sections 611.381 and 611.382.
2905 BOARD NOTE: Also individually available from NEMI.
2906
2907 "USEPA 326.0 (02)" means "Method 326.0:
2908 Determination of Inorganic Oxyhalide Disinfection By-
2909 Products in Drinking Water Using Ion Chromatography
2910 Incorporating the Addition of a Suppressor Acidified
2911 Postcolumn Reagent for Trace Bromate Analysis",
2912 Revision 1.0 (June 2002), USEPA, Office of Ground Water
2913 and Drinking Water, Technical Support Center, document
2914 number EPA 815/R-03/007. Available from NEMI; NTRL
2915 (document number PB2003-107402); USEPA, NSCEP
2916 (search "815R03007"); and USEPA, OGWDW (under
2917 "Disinfection Byproduct Rules (PDF)"). Referenced in
2918 Sections 611.381 and 611.382.
2919
2920 "USEPA 327.0 (05)" means "Method 327.0:
2921 Determination of Chlorine Dioxide and Chlorite Ion in
2922 Drinking Water Using Lissamine Green B and Horseradish
2923 Peroxidase with Detection by Visible Spectrophotometry",
2924 Revision 1.1 (May 2005), USEPA, Office of Ground Water
2925 and Drinking Water, Technical Support Center, document
2926 number EPA 815/R-05/008. Available from NEMI;
2927 USEPA, NSCEP (search "815R05008"); and USEPA,
2928 OGWDW (under "Disinfection Byproduct Rules (PDF)").
2929 Referenced in Sections 611.381 and 611.531.
2930
2931 "USEPA 334.0 (09)" means "Method 334.0:
2932 Determination of Residual in Drinking Water Using an On-
2933 line Chlorine Analyzer", Version 1.0 (September 2009),
2934 USEPA, Office of Ground Water and Drinking Water,
2935 Technical Support Center, document number EPA 815/B-

2936 09/013. Available from NEMI; USEPA, NSCEP (search
2937 "815B09013"); and USEPA, OGWDW (under
2938 "Disinfection Byproduct Rules (PDF)"). Referenced in
2939 Sections 611.381 and 611.531.
2940
2941 "USEPA 335.4 (93)" means "Method 335.4:
2942 Determination of Total Cyanide by Semi-Automated
2943 Colorimetry", Revision 1.0 (August 1993), in USEPA
2944 Environmental Inorganic Methods (93). Referenced in
2945 Section 611.611.
2946 BOARD NOTE: Also individually available from NEMI.
2947
2948 "USEPA 353.2 (93)" means "Method 353.2:
2949 Determination of Inorganic Anions by Ion
2950 Chromatography", Revision 2.0 (August 1993), in USEPA
2951 Environmental Inorganic Methods (93). Referenced in
2952 Section 611.611.
2953 BOARD NOTE: Also individually available from NEMI.
2954
2955 "USEPA 365.1 (93)" means "Method 365.1:
2956 Determination of Phosphorus by Automated Colorimetry",
2957 Revision 2.0 (August 1993), in USEPA Environmental
2958 Inorganic Methods (93). Referenced in Section 611.611.
2959 BOARD NOTE: Also individually available from NEMI
2960 and USEPA, OGWDW (under "Inorganic Contaminants
2961 and Other Inorganic Constituents (PDF)").
2962
2963 "USEPA 415.3 (05)" means "Method 415.3:
2964 Determination of Total Organic Carbon and Specific UV
2965 Absorbance at 254 nm in Source Water and Drinking
2966 Water", Revision 1.1 (February 2005), USEPA, National
2967 Exposure Research Laboratory, document number EPA
2968 600/R05-055. Available from USEPA, NSCEP (search
2969 "600R05055") and USEPA, OGWDW (under "Disinfection
2970 Byproduct Rules (PDF)"). Referenced in Section 611.381.
2971
2972 "USEPA 415.3 (09)" means "Method 415.3,
2973 "Determination of Total Organic Carbon and Specific UV
2974 Absorbance at 254 nm in Source Water and Drinking
2975 Water", Revision 1.2 (September 2009), USEPA, National
2976 Exposure Research Laboratory, document number EPA
2977 600/R09-122. Referenced in Section 611.381. Available
2978 from NEMI; USEPA, NSCEP (search "600R09122"); and

2979 USEPA, OGWDW (under "Disinfection Byproduct Rules
2980 (PDF)").
2981
2982 "USEPA 502.2 (95)" means "Method 502.2: Volatile
2983 Organic Compounds in Water by Purge and Trap Capillary
2984 Column Gas Chromatography with Photoionization and
2985 Electrolytic Conductivity Detectors in Series", Revision 2.1
2986 (1995), in USEPA Organic Methods – Supplement III (95).
2987 Referenced in Sections 611.381 and 611.645.
2988 BOARD NOTE: Also individually available from NEMI.
2989
2990 "USEPA 504.1 (95)" means "Method 504.1: 1,2-
2991 Dibromomethane (EDB), 1,2-Dibromo-3-Chloropropane
2992 (DBCP), and 1,2,3-Trichloropropane (123TCP) in Water
2993 by Microextraction and Gas Chromatography", Revision
2994 1.1 (1995), in USEPA Organic Methods – Supplement III
2995 (95). Referenced in Section 611.645.
2996 BOARD NOTE: Also individually available from NEMI.
2997
2998 "USEPA 505 (95)" means "Method 505: Analysis of
2999 Organohalide Pesticides and Commercial Polychlorinated
3000 Biphenyl (PCB) Products in Water by Microextraction and
3001 Gas Chromatography", Revision 2.1 (1995), in USEPA
3002 Organic Methods – Supplement III (95). Referenced in
3003 Sections 611.645 and 611.648.
3004 BOARD NOTE: Also individually available from NEMI.
3005
3006 "USEPA 506 (95)" means "Method 506: Determination of
3007 Phthalate and Adipate Esters in Drinking Water by Liquid-
3008 Liquid Extraction or Liquid-Solid Extraction and Gas
3009 Chromatography with Photoionization Detection", Revision
3010 1.1 (1995), in USEPA Organic Methods – Supplement III
3011 (95). Referenced in Section 611.645.
3012 BOARD NOTE: Also individually available from NEMI.
3013
3014 "USEPA 507 (95)" means "Method 507: Determination of
3015 Nitrogen- and Phosphorus-Containing Pesticides in Water
3016 by Gas Chromatography with a Nitrogen-Phosphorus
3017 Detector", Revision 2.1 (1995), in USEPA Organic
3018 Methods – Supplement III (95). Referenced in Sections
3019 611.645 and 611.648.
3020 BOARD NOTE: Also individually available from NEMI.
3021

3022 "USEPA 508 (95)" means "Method 508: Determination of
3023 Chlorinated Pesticides in Water by Gas Chromatography
3024 with an Electron Capture Detector", Revision 3.1 (1995), in
3025 USEPA Organic Methods – Supplement III (95).
3026 Referenced in Sections 611.645 and 611.648.
3027 BOARD NOTE: Also individually available from NEMI.
3028

3029 "USEPA 508A (89)" means "Method 508A: Screening for
3030 Polychlorinated Biphenyls by Perchlorination and Gas
3031 Chromatography", Revision 1.0 (1989), in USEPA Organic
3032 Methods (91). Referenced in Sections 611.645 and
3033 611.646.
3034 BOARD NOTE: Also individually available from NEMI.
3035

3036 "USEPA 508.1 (95)" means "Method 508.1:
3037 Determination of Chlorinated Pesticides, Herbicides, and
3038 Organohalides by Liquid-Solid Extraction and Electron
3039 Capture Gas Chromatography", Revision 2.0 (1995), in
3040 USEPA Organic Methods – Supplement III (95).
3041 Referenced in Sections 611.645 and 611.648.
3042 BOARD NOTE: Also individually available from NEMI.
3043

3044 "USEPA 515.1 (89)" means "Method 515.1:
3045 Determination of Chlorinated Acids in Drinking Water by
3046 Gas Chromatography with an Electron Capture Detector",
3047 Revision 4.1 (1989), in USEPA Organic Methods (91).
3048 Referenced in Section 611.645.
3049

3050 "USEPA 515.2 (95)" means "Method 515.2:
3051 Determination of Chlorinated Acids in Water Using
3052 Liquid-Solid Extraction and Gas Chromatography with an
3053 Electron Capture Detector", Revision 1.1 (1995), in
3054 USEPA Organic Methods – Supplement III (95).
3055 Referenced in Section 611.645.
3056 BOARD NOTE: Also individually available from NEMI.
3057

3058 "USEPA 515.3 (96)" means "Method 515.3:
3059 Determination of Chlorinated Acids in Drinking Water by
3060 Liquid-Liquid Extraction, Derivatization and Gas
3061 Chromatography with Electron Capture Detection",
3062 Revision 1.0 (July 1996), in USEPA Organic and Inorganic
3063 Methods (00). Referenced in Section 611.645.
3064 BOARD NOTE: Also individually available from NEMI.

3065
 3066 "USEPA 515.4 (00)" means "Method 515.4:
 3067 "Determination of Chlorinated Acids in Drinking Water by
 3068 Liquid-Liquid Microextraction, Derivatization and Fast Gas
 3069 Chromatography with Electron Capture Detection"
 3070 Revision 1.0 (April 2000), USEPA, Office of Ground
 3071 Water and Drinking Water, Technical Support Center,
 3072 document number EPA 815/B-00/001. Available from
 3073 NEMI; USEPA, NSCEP (search "815B00001"); and
 3074 USEPA, OGWDW (under "Organic Contaminants
 3075 (PDF)"). Referenced in Section 611.645.
 3076
 3077 "USEPA 523 (11)" means "Method 523: Determination of
 3078 Triazine Pesticides and Other Degradates in Drinking
 3079 Water by Gas Chromatography/Mass Spectrometry
 3080 (GC/MS)", Version 1.0 (February 2011), USEPA, Office of
 3081 Ground Water and Drinking Water, Standards and Risk
 3082 Management Division, Technical Support Center,
 3083 document number EPA 815/R-11-002. Available from
 3084 USEPA, NSCEP (search "815R11002"); and USEPA,
 3085 OGWDW (under "Organic Contaminants (PDF)").
 3086 referenced in Section 611.645.
 3087
 3088 "USEPA 524.2 (95)" means "Method 524.2: Measurement
 3089 of Purgeable Organic Compounds in Water by Capillary
 3090 Column Gas Chromatography/Mass Spectrometry",
 3091 Revision 4.1 (1995), in USEPA Organic Methods –
 3092 Supplement III (95). Referenced in Section 611.645.
 3093 BOARD NOTE: Also individually available from NEMI.
 3094
 3095 "USEPA 524.3 (09)" means "Method 524.3: Measurement
 3096 of Purgeable Organic Compounds in Water by Capillary
 3097 Column Gas Chromatography/Spectrometry", Revision 1.0
 3098 (June 2009), USEPA, Office of Ground Water and
 3099 Drinking Water, Standards and Risk Management Division,
 3100 Technical Support Center, document number EPA 815/B-
 3101 09/009. Available from NEMI; USEPA, NSCEP (search
 3102 for "815B09009"); and USEPA, OGWDW (under
 3103 "Disinfection Byproduct Rules (PDF)" and "Organic
 3104 Contaminants (PDF)"). Referenced in Sections 611.381
 3105 and 611.645.
 3106

3107 "USEPA 524.4 (13)" means "Method 524.4, "Measurement
3108 of Purgeable Organic Compounds in Water by Gas
3109 Chromatography/Spectrometry Using Nitrogen Purge Gas"
3110 (May 2013), USEPA, Office of Ground Water and
3111 Drinking Water, Standards and Risk Management Division,
3112 Technical Support Center, document number EPA 815/R-
3113 13/002. Available from USEPA, NSCEP (search for
3114 "815R13002"); and USEPA, OGWDW (under
3115 "Disinfection Byproduct Rules (PDF)" and "Organic
3116 Contaminants (PDF)"). Referenced in Sections 611.381
3117 and 611.645.
3118

3119 "USEPA 525.2 (95)" means "Method 525.2:
3120 Determination of Organic Compounds in Drinking by
3121 Liquid-Liquid Extraction and Capillary Column Gas
3122 Chromatography/Mass Spectrometry", Revision 2.0 (1995),
3123 in USEPA Organic Methods – Supplement III (95).
3124 Referenced in Section 611.645.
3125 BOARD NOTE: Also individually available from NEMI.
3126

3127 "USEPA 525.3 (12)" means "Method 525.3:
3128 Determination of Total Semivolatile Organic Chemicals in
3129 Drinking Water by Solid Phase Extraction and Capillary
3130 Column Gas Chromatography/Mass Spectrometry
3131 (GC/MS)", Version 1.0 (February 2012), USEPA, National
3132 Exposure Research Laboratory, document number EPA
3133 600/R-12/010. Available from USEPA, NSCEP (search
3134 "600R12010") and USEPA, OGWDW (under "Organic
3135 Contaminants (PDF)"). Referenced in Section 611.645.
3136

3137 "USEPA 531.1 (95)" means "Method 531.1: Measurement
3138 of N-Methylcarbamoyloximes and N-Methylcarbamates in
3139 Water by Direct Aqueous Injection HPLC with Post
3140 Column Derivatization", Revision 3.1 (1995), in USEPA
3141 Organic Methods – Supplement III (95). Referenced in
3142 Section 611.645.
3143 BOARD NOTE: Also individually available from NEMI.
3144

3145 "USEPA 531.2 (01)" means "Method 531.2: Measurement
3146 of N-Methylcarbamoyloximes and N-Methylcarbamates in
3147 Water by Direct Aqueous Injection HPLC with Postcolumn
3148 Derivatization", Revision 1.0 (September 2001), USEPA,
3149 Office of Ground Water and Drinking Water, Standards

3150 and Risk Management Division, Technical Support Center,
3151 document number EPA 815/B-01/002. Available from
3152 NEMI; USEPA, NSCEP (search "815B01002"); and
3153 USEPA, OGWDW (under "Organic Contaminants
3154 (PDF)"). Referenced in Section 611.645. See also and
3155

3156 "USEPA 536 (07)" means "Method 536: Determination of
3157 Triazine Pesticides and Other Degradates in Drinking
3158 Water by Liquid Chromatography Electrospray Ionization
3159 Tandem Mass Spectrometry (LC/ESI-MS/MS)", Version
3160 1.0 (October 2007), USEPA Office of Ground Water and
3161 Drinking Water, Technical Support Center, document
3162 number EPA 815/B-07/002. Available from USEPA,
3163 NSCEP (search "815B07002") and USEPA, OGWDW
3164 (under "Organic Contaminants (PDF)"). Referenced in
3165 Section 611.645.
3166

3167 "USEPA 547 (90)" means "Method 547: Determination of
3168 Glyphosate in Drinking Water by Direct-Aqueous-Injection
3169 HPLC, Post-Column Derivatization, and Fluorescence
3170 Detection" (July 1990), in USEPA Organic Methods –
3171 Supplement I (90). Referenced in Section 611.645.
3172

3173 "USEPA 548.1 (92)" means "Method 548.1:
3174 Determination of Endothall in Drinking Water by Ion-
3175 Exchange Extraction, Acidic Methanol Methylation and
3176 Gas Chromatography/Mass Spectrometry", Revision 1.0
3177 (August 1992), in USEPA Organic Methods – Supplement
3178 II (92). Referenced in Section 611.645.
3179 BOARD NOTE: Also individually available from NEMI.
3180

3181 "USEPA 549.2 (97)" means "Method 549.2:
3182 Determination of Diquat and Paraquat in Drinking Water
3183 by Liquid-Solid Extraction and High Performance Liquid
3184 Chromatography with Ultraviolet Detection", Revision 1.0
3185 (June 1997), USEPA, Office of Research and
3186 Development, National Exposure Research Laboratory.
3187 Available from NEMI. Referenced in Section 611.645.
3188

3189 "USEPA 550 (90)" means "Method 550: Determination of
3190 Polycyclic Aromatic Hydrocarbons in Drinking Water by
3191 Liquid-Liquid Extraction and HPLC with Coupled
3192 Ultraviolet and Fluorescence Detection" (July 1990), in

3193 USEPA Organic Methods – Supplement I (90).
3194 Referenced in Section 611.645.
3195 BOARD NOTE: Also individually available from NEMI.
3196
3197 "USEPA 550.1 (90)" means "Method 550.1:
3198 Determination of Polycyclic Aromatic Hydrocarbons in
3199 Drinking Water by Liquid-Solid Extraction and HPLC with
3200 Coupled Ultraviolet and Fluorescence Detection" (July
3201 1990), in USEPA Organic Methods – Supplement I (90).
3202 Referenced in Section 611.645.
3203 BOARD NOTE: Also individually available from NEMI.
3204
3205 "USEPA 551.1 (95)" means "Method 551.1: Measurement
3206 of N-Methylcarbamoyloximes and N-Methylcarbamates in
3207 Water by Direct Aqueous Injection HPLC with Post
3208 Column Derivatization", Revision 1.0 (1995), in USEPA
3209 Organic Methods – Supplement III (95). Referenced in
3210 Section 611.645.
3211
3212 "USEPA 552.1 (92)" means "Method 552.1:
3213 Determination of Haloacetic Acids and Dalapon in
3214 Drinking Water by Ion-Exchange Liquid-Solid Extraction
3215 and Gas Chromatography with an Electron Capture
3216 Detector", Revision 1.0 (August 1992), in USEPA Organic
3217 Methods – Supplement II (92). Referenced in Sections
3218 611.381 and 611.645.
3219 BOARD NOTE: Also individually available from NEMI.
3220
3221 "USEPA 552.2 (95)" means "Method 552.2:
3222 Determination of Haloacetic Acids and Dalapon in
3223 Drinking Water by Liquid-Liquid Extraction,
3224 Derivatization and Gas Chromatography with Electron
3225 Capture Detection", Revision 1.0 (1995), in USEPA
3226 Organic Methods – Supplement III (95). Referenced in
3227 Sections 611.381 and 611.645.
3228 BOARD NOTE: Also individually available from NEMI.
3229
3230 "USEPA 552.3 (03)" means "Method 552.3:
3231 Determination of Haloacetic Acids and Dalapon in
3232 Drinking Water by Liquid-Liquid Microextraction,
3233 Derivatization, and Gas Chromatography with Electron
3234 Capture Detection", Revision 1.0 (July 2003), USEPA,
3235 Office of Ground Water and Drinking Water, Technical

3236 Support Center, document number EPA 815/B-03/002.
3237 Available from NEMI; USEPA, NSCEP (search
3238 "815B03002"); and USEPA, OGWDW (under
3239 "Disinfection Byproduct Rules (PDF)"). Referenced in
3240 Sections 611.381 and 611.645.

3241
3242 "USEPA 555 (92)" means "Method 555: Determination of
3243 Chlorinated Acids in Water by High Performance Liquid
3244 Chromatography with a Photodiode Array Ultraviolet
3245 Detector", Revision 1.0 (August 1992), in USEPA Organic
3246 Methods – Supplement II (92). Referenced in Section
3247 611.645.

3248 BOARD NOTE: Also individually available from NEMI.

3249
3250 "USEPA 557 (09)" means "Method 557: Determination of
3251 Haloacetic Acids, Bromate, and Dalapon in Drinking Water
3252 by Ion Chromatography Electrospray Ionization Tandem
3253 Mass Spectrometry (IC-ESI-MS/MS)", Version 1.0
3254 (September 2009), USEPA, Office of Ground Water and
3255 Drinking Water, Technical Support Center, document
3256 number EPA 815/B-09/012. Available from NEMI;
3257 USEPA, NSCEP (search "815B09012"); and USEPA,
3258 OGWDW (under "Disinfection Byproduct Rules (PDF)").
3259 Referenced in Sections 611.381, 611.382, and 611.645.

3260
3261 "USEPA 900.0 (80)" means "Gross Alpha and Gross Beta
3262 Radioactivity in Drinking Water – Method 900.0" (1980),
3263 in USEPA Radioactivity Methods (80). Referenced in
3264 Section 611.720.

3265 BOARD NOTE: Also individually available from NEMI
3266 and USEPA, OGWDW (under "Radionuclides (PDF)").

3267
3268 "USEPA 900.0 (18)" means Method 900.0, Revision 1.0
3269 "Gross Alpha and Gross Beta Radioactivity in Drinking
3270 Water" (February 2018), USEPA, Office of Water,
3271 document number EPA 815/B-18/002. Also available from
3272 USEPA, NSCEP (search "815B18002") and USEPA,
3273 OGWDW (under "Radionuclides (PDF)").

3274
3275 "USEPA 901.0 (80)" means "Radioactive Cesium in
3276 Drinking Water – Method 901.0" (1980), in USEPA
3277 Radioactivity Methods (80). Referenced in Section
3278 611.720.

3279 BOARD NOTE: Also individually available from NEMI
3280 and USEPA, OGWDW (under "Radionuclides (PDF)").
3281
3282 "USEPA 901.1 (80)" means "Gamma Emitting
3283 Radionuclides in Drinking Water – Method 901.1" (1980),
3284 in USEPA Radioactivity Methods (80). Referenced in
3285 Section 611.720.
3286 BOARD NOTE: Also individually available from NEMI
3287 and USEPA, OGWDW (under "Radionuclides (PDF)").
3288
3289 "USEPA 902.0 (80)" means "Radioactive Iodine in
3290 Drinking Water – Method 902.0" (1980), in USEPA
3291 Radioactivity Methods (80). Referenced in Section
3292 611.720.
3293
3294 "USEPA 903.0 (80)" means "Alpha-Emitting Radium
3295 Isotopes in Drinking Water – Method 903.0" (1980), in
3296 USEPA Radioactivity Methods (80). Referenced in
3297 Section 611.720.
3298 BOARD NOTE: Also individually available from NEMI
3299 and USEPA, OGWDW (under "Radionuclides (PDF)").
3300
3301 "USEPA 903.1 (80)" means "Radium-226 in Drinking
3302 Water Radon Emanation Technique – Method 903.1"
3303 (1980), in USEPA Radioactivity Methods (80). Referenced
3304 in Section 611.720.
3305 BOARD NOTE: Also individually available from NEMI
3306 and USEPA, OGWDW (under "Radionuclides (PDF)").
3307
3308 "USEPA 904.0 (80)" means "Radium-228 in Drinking
3309 Water – Method 904.0" (1980), in USEPA Radioactivity
3310 Methods (80). Referenced in Section 611.720.
3311 BOARD NOTE: Also individually available from NEMI
3312 and USEPA, OGWDW (under "Radionuclides (PDF)").
3313
3314 ["USEPA 904.0 \(22\)" means "Radium-228 in Drinking](#)
3315 [Water – Method 904.0", Revision 1.0 \(2022\), in USEPA](#)
3316 [Radioactivity Methods \(80\). Referenced in Section](#)
3317 [611.720.](#)
3318
3319 "USEPA 905.0 (80)" means "Radioactive Strontium in
3320 Drinking Water – Method 905.0" (1980), in USEPA

3321 Radioactivity Methods (80). Referenced in Section
3322 611.720.
3323 BOARD NOTE: Also individually available from NEMI
3324 and USEPA, OGWDW (under "Radionuclides (PDF)").
3325
3326 "USEPA 906.0 (80)" means "Tritium in Drinking Water –
3327 Method 906.0" (1980), in USEPA Radioactivity Methods
3328 (80). Referenced in Section 611.720.
3329 BOARD NOTE: Also individually available from NEMI
3330 and USEPA, OGWDW (under "Radionuclides (PDF)").
3331
3332 "USEPA 908.0 (80)" means "Uranium in Drinking Water –
3333 Radiochemical Method – Method 908.0" (1980), in
3334 USEPA Radioactivity Methods (80). Referenced in
3335 Section 611.720.
3336 BOARD NOTE: Also individually available from NEMI.
3337
3338 "USEPA 908.1 (80)" means "Uranium in Drinking Water –
3339 Fluorometric Method – Method 908.1" (1980), in USEPA
3340 Radioactivity Methods (80). Referenced in Section
3341 611.720.
3342 BOARD NOTE: Also individually available from NEMI
3343 and USEPA, OGWDW (under "Radionuclides (PDF)").
3344
3345 "USEPA 1600 (02)" means "Method 1600: Enterococci in
3346 Water by Membrane Filtration Using membrane-
3347 Enterococcus Indoxyl- β -D-Glucoside Agar (mEI)"
3348 (September 2002), USEPA, Office of Water, document
3349 number EPA 821/R-02/022. Available from NEMI;
3350 USEPA, NSCEP (search "821R02022"); and USEPA,
3351 OGWDW (under "Ground Water Rule (PDF)").
3352 Referenced in Section 611.802.
3353 BOARD NOTE: SM 9230 C (93) and SM 9230 (13),
3354 "Fecal Streptococcus and Enterococcus Groups, Membrane
3355 Filter Techniques", are USEPA-approved variations of this
3356 method.
3357
3358 "USEPA 1601 (01)" means "Method 1601: Male-specific
3359 (F+) and Somatic Coliphage in Water by Two-step
3360 Enrichment Procedure" (April 2001), USEPA, Office of
3361 Water, document number EPA 821/R-01/030. Available
3362 from NEMI and USEPA, NSCEP (search "821R01030");

3363 and USEPA, OGWDW (under "Ground Water Rule
3364 (PDF)"). Referenced in Section 611.802.

3365
3366 "USEPA 1602 (01)" means "Method 1602: Male-specific
3367 (F+) and Somatic Coliphage in Water by Single Agar Layer
3368 (SAL) Procedure" (April 2001), USEPA, Office of Water,
3369 document number EPA 821/R-01/029. Available from
3370 NEMI and USEPA, NSCEP (search "821R01029"); and
3371 USEPA, OGWDW (under "Ground Water Rule (PDF)").
3372 Referenced in Section 611.802.

3373
3374 "USEPA 1604 (02)" means "Method 1604: Total
3375 Coliforms and Escherichia coli in Water by Membrane
3376 Filtration Using a Simultaneous Detection Technique (MI
3377 Medium)" (September 2002), USEPA, Office of Water,
3378 document number EPA 821/R-02/024. Available from
3379 NEMI and USEPA, NSCEP (search "821R02024"); and
3380 USEPA, OGWDW (under "Ground Water Rule (PDF)",
3381 "Revised Total Coliforms Rule (PDF)", and "Surface Water
3382 Treatment Rule (PDF)"). Referenced in Sections 611.802
3383 and 611.1052.

3384
3385 "USEPA 1613 (94)" means "Method 1613: Tetra- through
3386 Octa-Chlorinated Dioxins and Furans by Isotope Dilution
3387 HRGC/HRMS", Revision B (October 1994), USEPA,
3388 Office of Water, Engineering and Analysis Division,
3389 document number EPA 821/B-94/005. Available from
3390 NEMI; NTRL (document number PB95-104774); USEPA,
3391 NSCEP (search "821B94005"); and USEPA, OGWDW
3392 (under "Organic Contaminants (PDF)"). Referenced in
3393 Section 611.645.

3394
3395 "USEPA 1622 (01)" means "Method 1622:
3396 Cryptosporidium in Water by Filtration/IMS/FA" (April
3397 2001), USEPA, Office of Water, document number EPA
3398 821/R-01/026. Available from NEMI; and USEPA,
3399 NSCEP (search "821R01026"). Referenced in Section
3400 611.1007.

3401
3402 "USEPA 1622 (05)" means "Method 1622:
3403 Cryptosporidium in Water by Filtration/IMS/FA"
3404 (December 2005), USEPA, Office of Ground Water and
3405 Drinking Water, document number EPA 815/R-05/001.

3406 Available from USEPA, NSCEP (search "815R05001")
3407 and USEPA, OGWDW (under "Long Term 2 Enhanced
3408 Surface Water Treatment Rule (PDF)"). Referenced in
3409 Sections 611.1004 and 611.1007.

3410
3411 "USEPA 1623 (99)" means "Method 1623:
3412 Cryptosporidium and Giardia in Water by
3413 Filtration/IMS/FA" (April 1999), USEPA, Office of
3414 Ground Water and Drinking Water, document number EPA
3415 821/R-99/006. Available from USEPA, NSCEP (search
3416 "821R99006"). Referenced in Section 611.1007.

3417
3418 "USEPA 1623 (01)" means "Method 1623:
3419 Cryptosporidium and Giardia in Water by
3420 Filtration/IMS/FA" (April 2001), USEPA, Office of
3421 Ground Water and Drinking Water, document number EPA
3422 821/R-01/025. Available from NEMI and USEPA, NSCEP
3423 (search "821R01025"). Referenced in Section 611.1007.

3424
3425 "USEPA 1623 (05)" means "Method 1623:
3426 Cryptosporidium and Giardia in Water by
3427 Filtration/IMS/FA" (December 2005), USEPA, Office of
3428 Ground Water and Drinking Water, document number EPA
3429 815/R-05/002. Available from USEPA, NSCEP (search
3430 "815R05002") and USEPA, OGWDW (under "Long Term
3431 2 Enhanced Surface Water Treatment Rule (PDF)").
3432 Referenced in Sections 611.1004 and 611.1007.

3433
3434 "USEPA 1623.1 (12)" means "Method 1623.1, "Method
3435 1623.1: Cryptosporidium and Giardia in Water by
3436 Filtration/IMS/FA" (January 2012), USEPA, Office of
3437 Ground Water and Drinking Water, document number EPA
3438 816/R-12/001. Available from USEPA, NSCEP (search
3439 "816R12001") and USEPA, OGWDW (under "Long Term
3440 2 Enhanced Surface Water Treatment Rule (PDF)").
3441 Referenced in Section 611.1004.

3442
3443 USEPA Documents Containing Multiple Numbered Methods

3444
3445 "USEPA Environmental Inorganic Methods (93)" means
3446 "Methods for the Determination of Inorganic Substances in
3447 Environmental Samples" (August 1993), USEPA,
3448 Environmental Monitoring Systems Laboratory, document

3449 number EPA 600/R-93-100 (for USEPA 180.1 (93),
 3450 USEPA 300.0 (93), USEPA 335.4 (93), USEPA 353.2
 3451 (93), and USEPA 365.1 (93) only). Available from NTRL
 3452 (document number PB94-121811) and USEPA, NSCEP
 3453 (search "600R93100").

3454
 3455 "USEPA Environmental Metals Methods (94)" means
 3456 "Methods for the Determination of Metals in
 3457 Environmental Samples – Supplement I", May 1994,
 3458 USEPA, Environmental Monitoring Systems Laboratory,
 3459 document number EPA 600/R-94-111 (for USEPA 200.7
 3460 (94), USEPA 200.8 (94), USEPA 200.9 (94), and USEPA
 3461 245.1 (94) only). Referenced in Sections 611.600, 611.611,
 3462 611.612, and 611.720. Available from NTRL (document
 3463 number PB84-125472) and USEPA, NSCEP (search
 3464 "600R94111").

3465
 3466 "USEPA Inorganic Methods (83)" means "Methods for
 3467 Chemical Analysis of Water and Wastes"(March 1983),
 3468 USEPA, Office of Research and Development, document
 3469 number EPA 600/4-79-020 (USEPA 150.1 (71), USEPA
 3470 150.2 (82), and USEPA 245.2 (74) only). Available from
 3471 NTRL (document number PB84-128677) and USEPA,
 3472 NSCEP (search "600479020"). Referenced in Section
 3473 611.611.

3474
 3475 "USEPA Organic and Inorganic Methods (00)" means
 3476 "Methods for the Determination of Organic and Inorganic
 3477 Compounds in Drinking Water, Volume 1" (August 2000),
 3478 USEPA, Office of Water and Office of Research and
 3479 Development, document number EPA 815/R-00/014
 3480 (Methods 300.1 (97), USEPA 321.8 (97), and USEPA
 3481 515.3 (96) only). Available from NTRL (document
 3482 number PB2000-106981) and USEPA, NSCEP (search
 3483 "815R00014").

3484
 3485 "USEPA Organic Methods (91)" means "Methods for the
 3486 Determination of Organic Compounds in Drinking Water",
 3487 (December 1988 (revised July 1991)), USEPA, Office of
 3488 Research and Development, document number EPA 600/4-
 3489 88/039 (USEPA 508A (89) and USEPA 515.1 (89) only).
 3490 Available from NTRL (document number PB91-231480)

3491 and USEPA, NSCEP (search "600488039") and USEPA,
 3492 OGWDW.
 3493
 3494 "USEPA Organic Methods – Supplement I (90)" means
 3495 "Methods for the Determination of Organic Compounds in
 3496 Drinking Water – Supplement I" (July 1990), USEPA,
 3497 Environmental Monitoring Systems Laboratory, document
 3498 number EPA 600/4-90/020 (USEPA 547 (90), USEPA 550
 3499 (90) and USEPA 550.1 (90) only). Available from NTRL
 3500 (document number PB91-146027) and USEPA, NSCEP
 3501 (search "600490020").
 3502
 3503 "USEPA Organic Methods – Supplement II (92)" means
 3504 "Methods for the Determination of Organic Compounds in
 3505 Drinking Water – Supplement II" (August 1992), USEPA,
 3506 Office of Research and Development, document number
 3507 EPA 600/R-92/129 (USEPA 548.1 (92), USEPA 552.1
 3508 (92), and USEPA 555 (92) only). Available from NTRL
 3509 (document number PB92-207703) and USEPA, NSCEP
 3510 (search "600R92129").
 3511
 3512 "USEPA Organic Methods – Supplement III (95)" means
 3513 "Methods for the Determination of Organic Compounds in
 3514 Drinking Water – Supplement III" (August 1995), USEPA,
 3515 Office of Research and Development, document number
 3516 EPA 600/R-95/131 (USEPA 502.2 (95), USEPA 504.1
 3517 (95), USEPA 505 (95), USEPA 506 (95), USEPA 507 (95),
 3518 USEPA 508 (95), USEPA 508.1 (95), USEPA 515.2 (95),
 3519 USEPA 524.2 (95), USEPA 525.2 (95), USEPA 531.1
 3520 (95), USEPA 551.1 (95), and USEPA 552.2 (95) only).
 3521 Available from NTRL (document number PB95-261616)
 3522 and USEPA, NSCEP (search "600R95131").
 3523
 3524 "USEPA Radioactivity Methods (80)" means "Prescribed
 3525 Procedures for Measurement of Radioactivity in Drinking
 3526 Water" (August 1980), USEPA, Office of Research and
 3527 Development, Environmental Monitoring and Support
 3528 Laboratory, document number EPA 600/4-80/032 (USEPA
 3529 900.0 (80), USEPA 901.0 (80), USEPA 901.1 (80),
 3530 USEPA 902.0 (80), USEPA 903.0 (80), USEPA 903.1
 3531 (80), USEPA 904.0 (80), USEPA 905.0 (80), USEPA
 3532 906.0 (80), USEPA 908.0 (80), and USEPA 908.1 (80)
 3533 only.). Available from NTRL (document number PB80-

3534 224744); USEPA, NSCEP (search "821480032"); and
3535 USEPA, OGWDW (under "Radionuclides (PDF))".

3536
3537 "USEPA Radiochemistry Procedures (84)" means
3538 "Radiochemistry Procedures Manual" (June 1984),
3539 USEPA, Eastern Environmental Radiation Facility,
3540 document number EPA 520/5-84-006 (USEPA 00-01 (84),
3541 USEPA 00-02 (84), USEPA 00-07 (84), USEPA H-02 (84),
3542 USEPA Ra-03 (84), USEPA Ra-04 (84), USEPA Ra-05
3543 (84), USEPA Sr-04 (84) only). Available from NTRL
3544 (document number PB84215581); USEPA, NSCEP (search
3545 "520584006"); and USEPA, OGWDW.

3546
3547 Unnumbered Methods

3548
3549 "USEPA ARP (73)" means "Procedures for Radiochemical
3550 Analysis of Nuclear Reactor Aqueous Solutions" (May
3551 1973), USEPA, Office of Research and Monitoring,
3552 National Environmental Research Center, document
3553 number EPA-R4-73-014. Available from NTRL
3554 (document number PB222154) and USEPA, NSCEP
3555 (search "R473014"). Referenced in Section 611.720.

3556
3557 "USEPA IRM (76)" means "Interim Radiochemical
3558 Methodology for Drinking Water" (March 1976), USEPA,
3559 Office of Research and Development, Environmental
3560 Monitoring and Support Laboratory, document number
3561 EPA 600/4-75-008 (revised) (pages 1 through 37 only).
3562 Available from NTRL (document number PB253258);
3563 USEPA, NSCEP (search "600475008A"); and USEPA,
3564 OGWDW (under "Radionuclides (PDF)"). Referenced in
3565 Section 611.720.

3566
3567 "USEPA IRM (76), pages 1-3" means pages 1
3568 through 3, "Gross Alpha and Beta Radioactivity in
3569 Drinking Water", in USEPA IRM (76). Referenced
3570 in Section 611.720.

3571
3572 "USEPA IRM (76), pages 4-5" means pages 4
3573 through 5, "Radioactive Cesium in Drinking
3574 Water", in USEPA IRM (76). Referenced in
3575 Section 611.720.

3576

3577 "USEPA IRM (76), pages 6-8" means pages 6
3578 through 8, "Radioactive Iodine in Drinking Water:
3579 Precipitation Method", in USEPA IRM (76).
3580 Referenced in Section 611.720.
3581
3582 "USEPA IRM (76), pages 9-12" means pages 9
3583 through 12, "Radioactive Iodine in Drinking Water:
3584 Distillation Method", in USEPA IRM (76).
3585 Referenced in Section 611.720.
3586
3587 "USEPA IRM (76), pages 13-15" means pages 13
3588 through 15, "Alpha-Emitting Radium Isotopes in
3589 Drinking Water: Precipitation Method", in USEPA
3590 IRM (76). Referenced in Section 611.720.
3591
3592 "USEPA IRM (76), pages 16-23" means pages 16
3593 through 23, "Radium-226 in Drinking Water:
3594 Radon Emanation Technique", in USEPA IRM
3595 (76). Referenced in Section 611.720.
3596
3597 "USEPA IRM (76), pages 24-28" means pages 24
3598 through 28, "Radium-228 in Drinking Water:
3599 Sequential Method Radium-228/Radium-226", in
3600 USEPA IRM (76). Referenced in Section 611.720.
3601
3602 "USEPA IRM (76), pages 29-33" means pages 29
3603 through 33, "Radioactive Strontium in Drinking
3604 Water", in USEPA IRM (76). Referenced in
3605 Section 611.720.
3606
3607 "USEPA IRM (76), pages 34-37" means pages 34
3608 through 37, "Tritium in Drinking Water", in
3609 USEPA IRM (76). Referenced in Section 611.720.
3610
3611 "USEPA RCA (79)" means "Radiochemical Analytical
3612 Procedures for Analysis of Environmental Samples"
3613 (March 1979), USEPA, Environmental Monitoring and
3614 Support Laboratory, document number EMSL-LV-0539-17
3615 (pages 1 through 5, 19 through 48, 65 through 73, and 87
3616 through 95 only). Available from NTRL (document
3617 number EMSLLV053917); USEPA, NSCEP (search
3618 "EMSLV053917") and USEPA, OGWDW (under
3619 "Radionuclides (PDF)"). Referenced in Section 611.720.

3620
3621 "USEPA RCA (79), pages 1-5" means pages 1
3622 through 5, "Determination of Gross Alpha and Beta
3623 in Water", in USEPA RCA (79). Referenced in
3624 Section 611.720.
3625
3626 "USEPA RCA (79), pages 19-32" means pages 19
3627 through 32, "Determination of Radium-226 and
3628 Radium-228 in Water, Soil, Air, and Biological
3629 Tissue", in USEPA RCA (79). Referenced in
3630 Section 611.720.
3631
3632 "USEPA RCA (79), pages 33-48" means pages 33
3633 through 48, "Isotopic Determination of Plutonium,
3634 Uranium, and Thorium in Water, Soil, Air, and
3635 Biological Tissue", in USEPA RCA (79).
3636 Referenced in Section 611.720.
3637
3638 "USEPA RCA (79), pages 65-73" means pages 65
3639 through 73, "Determination of Strontium-89 and
3640 Strontium-90 in Water, Soil, Air, and Biological
3641 Tissue", in USEPA RCA (79). Referenced in
3642 Section 611.720.
3643
3644 "USEPA RCA (79), pages 87-91" means pages 87
3645 through 91, "Determination of Tritium in Water,
3646 Soil, Air, and Biological Tissue (Direct Method)",
3647 in USEPA RCA (79). Referenced in Section
3648 611.720.
3649
3650 "USEPA RCA (79), pages 92-95" means pages 92
3651 through 95, "Isotopic Analysis by Gamma Ray
3652 Spectra Using Lithium-Drifted Germanium
3653 Detectors", in USEPA RCA (79). Referenced in
3654 Section 611.720.
3655
3656 "USEPA Technical Notes (94)" means "Technical Notes on
3657 Drinking Water Methods" (October 1994), document
3658 number EPA 600/R-94-173, USEPA, Office of Research
3659 and Development. Available from NTRL (document
3660 number PB95-104766); and USEPA, NSCEP (search
3661 "600R94173"). Referenced in Sections 611.531, 611.611,
3662 and 611.645.

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Sources of USEPA Methods

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.

3706 "USGS I-1700-85" means "Silica, colorimetric, molybdate blue, I-
 3707 1700-85", in "Techniques of Water-Resource Investigation of the
 3708 United States Geological Survey", 3rd ed. (1989), Book 5, Chapter
 3709 A1, "Methods for Determination of Inorganic Substances in Water
 3710 and Fluvial Sediments". Available at [pubs.usgs.gov/twri/twri5-
 3711 a1/pdf/TWRI_5-A1.pdf](https://pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf). Referenced in Section 611.611.

3712
 3713 "USGS I-2598-85" means "Phosphorus, orthophosphate,
 3714 colorimetric, phosphomolybdate, automated-discrete, I-2598-85",
 3715 in "Techniques of Water-Resource Investigation of the United
 3716 States Geological Survey", 3rd ed. (1989), Book 5, Chapter A1,
 3717 "Methods for Determination of Inorganic Substances in Water and
 3718 Fluvial Sediments". Available at [pubs.usgs.gov/twri/twri5-
 3719 a1/pdf/TWRI_5-A1.pdf](https://pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf). Referenced in Section 611.611.

3720
 3721 "USGS I-2601-90" means "Phosphorus, orthophosphate,
 3722 colorimetry, phosphomolybdate, automated segment-flow, I-2601-
 3723 90", in "Methods for Analysis by the U.S. Geological Survey
 3724 National Water Quality Laboratory – Determination of Inorganic
 3725 and Organic Constituents in Water and Fluvial Sediments", U.S.
 3726 Geological Survey, Open File Report 93-125 (1993). Available at
 3727 pubs.usgs.gov/publication/ofr93125. Referenced in Section
 3728 611.611.

3729
 3730 "USGS I-2700-85" means "Silica, colorimetric, molybdate blue,
 3731 automated-segmented flow, I-2700-85", in "Techniques of Water-
 3732 Resource Investigation of the United States Geological Survey",
 3733 3rd ed. (1989), Book 5, Chapter A1, "Methods for Determination of
 3734 Inorganic Substances in Water and Fluvial Sediments". Available
 3735 at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced
 3736 in Section 611.611.

3737
 3738 "USGS I-3300-85" means "Cyanide, colorimetric, pyridine-
 3739 pyrazolone, I-3300-85", in "Techniques of Water-Resource
 3740 Investigation of the United States Geological Survey", 3rd ed.
 3741 (1989), Book 5, Chapter A1, "Methods for Determination of
 3742 Inorganic Substances in Water and Fluvial Sediments". Available
 3743 at pubs.usgs.gov/twri/twri5-a1/pdf/TWRI_5-A1.pdf. Referenced
 3744 in Section 611.611.

3745
 3746 "USGS R-1110-76" means "Cesium-137 and cesium-134,
 3747 dissolved. Inorganic ion-exchange method – gamma counting, R-
 3748 1110-76", in "Techniques of Water-Resource Investigation of the

3749 Water Resources Investigations of the United States Geological
 3750 Survey", Book 5, Chapter A-5, "Methods for Determination of
 3751 Radioactive Substances in Water and Fluvial Sediments" (1977).
 3752 Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf.
 3753 Referenced in Section 611.720.
 3754
 3755 "USGS R-1111-76" means "Radiocesium, dissolved, as cesium-
 3756 137. Inorganic ion-exchange method – beta counting, R-1111-76",
 3757 in "Techniques of Water-Resource Investigation of the Water
 3758 Resources Investigations of the United States Geological Survey",
 3759 Book 5, Chapter A-5, "Methods for Determination of Radioactive
 3760 Substances in Water and Fluvial Sediments" (1977). Available at
 3761 pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in
 3762 Section 611.720.
 3763
 3764 "USGS R-1120-76" means "Gross alpha and beta radioactivity,
 3765 dissolved and suspended, R-1120-76", in "Techniques of Water-
 3766 Resource Investigation of the Water Resources Investigations of
 3767 the United States Geological Survey", Book 5, Chapter A-5,
 3768 "Methods for Determination of Radioactive Substances in Water
 3769 and Fluvial Sediments" (1977). Available at [pubs.usgs.gov](https://pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf)
 3770 [/twri/twri5a5/pdf/TWRI_5-A5.pdf](https://pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf). Referenced in
 3771 Section 611.720.
 3772
 3773 "USGS R-1140-76" means "Radium, dissolved, as radium-226.
 3774 Precipitation method, R-1140-76", in "Techniques of Water-
 3775 Resource Investigation of the Water Resources Investigations of
 3776 the United States Geological Survey", Book 5, Chapter A-5,
 3777 "Methods for Determination of Radioactive Substances in Water
 3778 and Fluvial Sediments" (1977). Available at
 3779 pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in
 3780 Section 611.720.
 3781
 3782 "USGS R-1141-76" means "Radium-226, dissolved. Radon
 3783 emanation method, R-1141-76", in "Techniques of Water-
 3784 Resource Investigation of the Water Resources Investigations of
 3785 the United States Geological Survey", Book 5, Chapter A-5,
 3786 "Methods for Determination of Radioactive Substances in Water
 3787 and Fluvial Sediments" (1977). Available at [pubs.usgs.gov](https://pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf)
 3788 [/twri/twri5a5/pdf/TWRI_5-A5.pdf](https://pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf). Referenced in
 3789 Section 611.720.
 3790

3791 "USGS R-1142-76" means "Radium-228, dissolved.
 3792 Determination by separation and counting of actinium-228, R-
 3793 1142-76", in "Techniques of Water-Resource Investigation of the
 3794 Water Resources Investigations of the United States Geological
 3795 Survey", Book 5, Chapter A-5, "Methods for Determination of
 3796 Radioactive Substances in Water and Fluvial Sediments" (1977).
 3797 Available at pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf.
 3798 Referenced in Section 611.720.
 3799

3800 "USGS R-1160-76" means "Strontium-90, dissolved. Chemical
 3801 separation and precipitation method, R-1160-76", in "Techniques
 3802 of Water-Resource Investigation of the Water Resources
 3803 Investigations of the United States Geological Survey", Book 5,
 3804 Chapter A-5, "Methods for Determination of Radioactive
 3805 Substances in Water and Fluvial Sediments" (1977). Available at
 3806 pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in
 3807 Section 611.720.
 3808

3809 "USGS R-1171-76" means "Tritium. Liquid scintillation, Denver
 3810 lab method – gamma counting, R-1171-76", in "Techniques of
 3811 Water-Resource Investigation of the Water Resources
 3812 Investigations of the United States Geological Survey", Book 5,
 3813 Chapter A-5, "Methods for Determination of Radioactive
 3814 Substances in Water and Fluvial Sediments" (1977). Available at
 3815 pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in
 3816 Section 611.720.
 3817

3818 "USGS R-1180-76" means "Uranium, dissolved. Fluorometric
 3819 method – direct, R-1180-76", in "Techniques of Water-Resource
 3820 Investigation of the Water Resources Investigations of the United
 3821 States Geological Survey", Book 5, Chapter A-5, "Methods for
 3822 Determination of Radioactive Substances in Water and Fluvial
 3823 Sediments" (1977). Available at [pubs.usgs.gov/twri/twri5a5/
 3824 pdf/TWRI_5-A5.pdf](https://pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf). Referenced in Section 611.720.
 3825

3826 "USGS R-1181-76" means "Uranium, dissolved. Fluorometric
 3827 method – extraction procedure, R-1181-76", in "Techniques of
 3828 Water-Resource Investigation of the Water Resources
 3829 Investigations of the United States Geological Survey", Book 5,
 3830 Chapter A-5, "Methods for Determination of Radioactive
 3831 Substances in Water and Fluvial Sediments" (1977). Available at
 3832 pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in
 3833 Section 611.720.

3834
3835 "USGS R-1182-76" means "Uranium, dissolved, isotopic ratios.
3836 Alpha spectrometry – chemical separation, R-1182-76", in
3837 "Techniques of Water-Resource Investigation of the Water
3838 Resources Investigations of the United States Geological Survey",
3839 Book 5, Chapter A-5, "Methods for Determination of Radioactive
3840 Substances in Water and Fluvial Sediments" (1977). Available at
3841 pubs.usgs.gov/twri/twri5a5/pdf/TWRI_5-A5.pdf. Referenced in
3842 Section 611.720.
3843

3844 "Waters B-1011 (87)" means "Waters Test Method for Determination of
3845 Nitrite/Nitrate in Water Using Single Column Ion Chromatography",
3846 Method B-1011 (August 1987). Available from Waters Corporation,
3847 Technical Services Division, 34 Maple St., Milford, MA 01757 (800-252-
3848 4752 or 508-478-2000, www.waters.com) and USEPA, OGWDW (under
3849 "Inorganic Contaminants and Other Inorganic Constituents (PDF)").
3850 Referenced in Section 611.611.
3851

3852 b) The Board incorporates the following federal regulations by reference:

3853
3854 40 CFR 3.3 (2019) (What Definitions Are Applicable to This Part?),
3855 referenced in Section 611.105.
3856

3857 40 CFR 3.10 (2019) (What Are the Requirements for Electronic Reporting
3858 to EPA?), referenced in Section 611.105.
3859

3860 40 CFR 3.2000 (2019) (What Are the Requirements Authorized State,
3861 Tribe, and Local Programs' Reporting Systems Must Meet?), referenced in
3862 Section 611.105.
3863

3864 40 CFR 136.3(a) (2019), referenced in Section 611.1004.
3865

3866 Appendix B to 40 CFR 136 (2019), referenced in Sections 611.359,
3867 611.609, and 611.646.
3868

3869 40 CFR 141.21(f)(6)(i) and (f)(6)(ii) (2019), referenced in Section
3870 611.802.
3871

3872 40 CFR 142.20(b)(1) (2019), referenced in Section 611.112.
3873

3874 Subpart G of 40 CFR 142 (2019), referenced in Section 611.113.
3875

3876 c) The Board incorporates the following federal statutory provision by reference:

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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

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),

3920 SM 9221 C (94), SM 9221 C (99), SM 9221 C (06), or
3921 9221 C (14).

3922
3923 BOARD NOTE: Lactose broth, as commercially available,
3924 may be used in lieu of lauryl tryptose broth if the supplier
3925 conducts at least 25 parallel tests between this medium and
3926 lauryl tryptose broth using the water normally tested and
3927 this comparison demonstrates that the false-positive rate
3928 and false-negative rate for total coliforms, using lactose
3929 broth, is less than ten percent. If inverted tubes are used to
3930 detect gas production, the media should cover these tubes at
3931 least one-half to two-thirds after the sample is added. No
3932 requirement exists to run the completed phase on ten
3933 percent of all total coliform-positive confirmed tubes.

3934
3935 ii) Total Coliform Membrane Filter Technique. SM 9222 A
3936 (91), SM 9222 A (94), SM 9222 A (97), SM 9222 A (06),
3937 SM 9222 A (15), SM 9222 B (91), SM 9222 B (94), SM
3938 9222 B (97), 9222 B (06), SM 9222 B (15), SM 9222 C
3939 (91), SM 9222 C (94), SM 9222 C (97), SM 9222 C (06),
3940 or SM 9222 C (15).

3941
3942 iii) ONPG-MUG (also known as Colilert®). SM 9223 (92),
3943 SM 9223 (94), SM 9223 (97), SM 9223 B (04), or SM
3944 9223 B (16).

3945
3946 B) Fecal Coliforms

3947
3948 BOARD NOTE: The time from sample collection to initiation of
3949 analysis for source (raw) water samples required by Section
3950 611.532 and Subpart B only must not exceed eight hours. The
3951 supplier is encouraged but not required to hold samples below 10°
3952 C during transit.

3953
3954 i) Fecal Coliform Procedure. SM 9221 E (93), SM 9221 E
3955 (94), SM 9221 E (99), SM 9221 E (06), or SM 9221 E (14).

3956
3957 BOARD NOTE: A-1 broth may be held up to seven days in
3958 a tightly closed screwcap tube at 4° C (39° F).

3959
3960 ii) Fecal Coliform Membrane Filter Procedure. SM 9222 D
3961 (91), SM 9222 D (94), 9222 D (97), 9222 D (06), or 9222
3962 D (15).

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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 \(21\).](#)

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

- ~~vii~~) LED Nephelometry (Portable). Orion AQ4500 (09), [Lovibond TB 3500 \(21\)](#), [Lovibond TB 5000 \(21\)](#).

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

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

- 4006 1) Free Chlorine
 4007
 4008 A) Amperometric Titration. ASTM D1253-03, ASTM D1253-08,
 4009 ASTM D1253-14, SM 4500-Cl D (89), SM 4500-Cl D (93), or SM
 4010 4500-Cl D (00).
 4011
 4012 B) DPD Ferrous Titrimetric. SM 4500-Cl F (89), SM 4500-Cl F (93),
 4013 or SM 4500-Cl F (00).
 4014
 4015 C) DPD Colimetric. Hach 10260 (13), SM 4500-Cl G (89), SM 4500-
 4016 Cl G (93), or SM 4500-Cl G (00).
 4017
 4018 D) Syringaldazine (FACTS). SM 4500-Cl H (89), SM 4500-Cl H
 4019 (93), or SM 4500-Cl H (00).
 4020
 4021 E) On-Line Chlorine Analyzer. USEPA 334.0 (09).
 4022
 4023 F) Amperometric Sensor. Palintest ChloroSense (09).
 4024
 4025 G) Indophenol Colorimetric. Hach 10241 (15).
 4026
 4027 2) Total Chlorine
 4028
 4029 A) Amperometric Titration. ASTM D1253-03, ASTM D1253-08,
 4030 ASTM D1253-14, SM 4500-Cl D (89), SM 4500-Cl D (93), or SM
 4031 4500-Cl D (00).
 4032
 4033 B) Amperometric Titration (low level measurement). SM 4500-Cl E
 4034 (89), 4500-Cl E (93), or 4500-Cl E (00).
 4035
 4036 C) DPD Ferrous Titrimetric. SM 4500-Cl F (89), 4500-Cl F (93), or
 4037 4500-Cl F (00).
 4038
 4039 D) DPD Colimetric. SM 4500-Cl G (89), 4500-Cl G (93), or 4500-Cl
 4040 G (00), or Hach 10260 (13).
 4041
 4042 E) Iodometric Electrode. SM 4500-Cl I (89), 4500-Cl I (93), or 4500-
 4043 Cl I (00).
 4044
 4045 F) On-Line Chlorine Analyzer. USEPA 334.0 (09).
 4046
 4047 G) Amperometric Sensor. Palintest ChloroSense (09).
 4048

4093 Methods 4500-CI D, 4500-CI E, 4500-CI F, 4500-CI G, 4500-CI H, and 4500-CI I. In
4094 this Section, these appear as SM 4500-CI D (00), SM 4500-CI E (00), SM 4500-CI F
4095 (00), SM 4500-CI G (00), SM 4500-CI H (00), and SM 4500-CI I (00).
4096

4097 Standard Methods Online, Methods 4500-CIO₂ C-93, 4500-CIO₂ D-93, and 4500-CIO₂ E-
4098 93 appear in the 19th and 20th editions as Methods 4500-CIO₂ C, 4500-CIO₂ D, and
4099 4500-CIO₂ E. In this Section, these appear as SM 4500-CIO₂ C (93), SM 4500-CIO₂ D
4100 (93), and SM 4500-CIO₂ E (93).
4101

4102 Standard Methods Online, Methods 4500-CIO₂ C-00 and 4500-CIO₂ E-00 appear in the
4103 19th and 20th editions as Methods 4500-CIO₂ C and 4500-CIO₂ E. In this Section, these
4104 appear as SM 4500-CIO₂ C (00) and SM 4500-CIO₂ E (00).
4105

4106 Standard Methods Online, Method 4500-O₃ B-97 appears in the 20th edition as Method
4107 4500-O₃ B. In this Section, this appears as SM 4500-O₃ B (97).
4108

4109 Standard Methods Online, Method 9215 B-00 appears in the 21st edition as Method 9215
4110 B. In this Section, these appear as SM 9215 B (00).
4111

4112 Standard Methods Online, Method 9215 B-04 appears in the 22nd edition as Method 9215
4113 B. In this Section, this appears as SM 9215 B (04).
4114

4115 Standard Methods Online, Methods 9221 A-99, 9221 B-99, and 9221 C-99 appear in the
4116 21st edition as Methods 9221 A, 9221 B, and 9221 C. In this Section, these appear as SM
4117 9221 A (99), SM 9221 B (99), and SM 9221 C (99).
4118

4119 Standard Methods Online, Methods 9221 A-06, 9221 B-06, 9221 C-06, and 9221 E-06
4120 appear in the 22nd edition as Methods 9221 A, 9221 B, 9221 C, and 9221 E. In this
4121 Section, these appear as SM 9221 A (06), SM 9221 B (06), SM 9221 C (06), and SM
4122 9221 E (06).
4123

4124 Standard Methods Online, Methods 9222 A-97, 9222 B-97, and 9222 C-97 appear in the
4125 20th and 21st editions as Methods 9222 A, 9222 B, and 9222 C. In this Section, these
4126 appear as SM 9222 A (97), SM 9222 B (97), and SM 9222 C (97).
4127

4128 Standard Methods Online, Method 9223 B-97 appears in the 20th and 21st editions as
4129 Method 9223 B. In this Section, this appears as SM 9223 B (97).
4130

4131 Standard Methods Online, Method 9223 B-04 appears in the 22nd edition as Method 9223
4132 B. In this Section, this appears as SM 9223 B (04).
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4134 (Source: Amended at 47 Ill. Reg. _____, effective _____)
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4136 SUBPART O: ORGANIC MONITORING AND ANALYTICAL REQUIREMENTS

4137

4138 **Section 611.645 Analytical Methods for Organic Chemical Contaminants**

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4140 Analysis for the Section 611.311(a) VOCs under Section 611.646, the Section 611.311(c) SOCs
 4141 under Section 611.648, the Section 611.310 old MCLs under Section 611.641, and for the
 4142 Section 611.312 MCL for TTHMs under Section 611.381 must be conducted using the methods
 4143 listed in this Section. All methods are incorporated by reference in Section 611.102. Other
 4144 required analytical test procedures germane to the conduct of these analyses are contained in the
 4145 USEPA Technical Notes, incorporated by reference in Section 611.102.

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4147 a) Volatile Organic Chemical Contaminants (VOCs)

4148

4149 1) Benzene

4150

4151 A) Purge and Trap Gas Chromatography. USEPA 502.2 (95).

4152

4153 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4154 524.2 (95), 524.3 (09), or 524.4 (13).

4155

4156 2) Carbon tetrachloride

4157

4158 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4159 502.2 (95).

4160

4161 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4162 524.2 (95), 524.3 (09), or 524.4 (13).

4163

4164 C) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4165 551.1 (95).

4166

4167 3) Chlorobenzene

4168

4169 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4170 502.2 (95).

4171

4172 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4173 524.2 (95), 524.3 (09), or 524.4 (13).

4174

4175 4) 1,2-Dichlorobenzene

4176

4177 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4178 502.2 (95).

- 4179
 4180 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4181 524.2 (95), 524.3 (09), or 524.4 (13).
 4182
 4183 5) 1,4-Dichlorobenzene
 4184
 4185 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4186 502.2 (95).
 4187
 4188 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4189 524.2 (95), 524.3 (09), or 524.4 (13).
 4190
 4191 6) 1,2-Dichloroethane
 4192
 4193 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4194 502.2 (95).
 4195
 4196 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4197 524.2 (95), 524.3 (09), or 524.4 (13).
 4198
 4199 7) 1,1-Dichloroethylene
 4200
 4201 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4202 502.2 (95).
 4203
 4204 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4205 524.2 (95), 524.3 (09), or 524.4 (13).
 4206
 4207 8) cis-Dichloroethylene
 4208
 4209 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4210 502.2 (95).
 4211
 4212 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4213 524.2 (95), 524.3 (09), or 524.4 (13).
 4214
 4215 9) trans-Dichloroethylene
 4216
 4217 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4218 502.2 (95).
 4219
 4220 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4221 524.2 (95), 524.3 (09), or 524.4 (13).

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- 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).
 - 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).

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- 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).
 - 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).

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 4310 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4311 524.2 (95), 524.3 (09), or 524.4 (13).
 4312
 4313 C) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4314 551.1 (95).
 4315 20) Vinyl chloride
 4316
 4317 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4318 502.2 (95).
 4319
 4320 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4321 524.2 (95), 524.3 (09), or 524.4 (13).
 4322
 4323 21) Xylenes (total)
 4324
 4325 A) Purge and Trap Capillary Column Gas Chromatography. USEPA
 4326 502.2 (95).
 4327
 4328 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4329 524.2 (95), 524.3 (09), or 524.4 (13).
 4330
 4331
 4332 b) Synthetic Organic Chemical Contaminants (SOCs)
 4333
 4334 1) 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD or Dioxin). Isotope
 4335 Dilution High Resolution Gas Chromatography-High Resolution Mass
 4336 Spectrometry. USEPA 1613 (94).
 4337
 4338 2) 2,4-D
 4339
 4340 A) Gas Chromatography with Electron Capture Detector. ASTM
 4341 D5317-93, ASTM D5317-98(2003), [ASTM D5317-20](#), SM 6640
 4342 B (01), or SM 6640 B (06).
 4343
 4344 B) Liquid-Liquid Extraction Gas Chromatography with Electron
 4345 Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 4346
 4347 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4348 Capture Detector. USEPA 515.2 (95).
 4349

- 4350 D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas
 4351 Chromatography with Electron Capture Detector. USEPA 515.4
 4352 (00).
 4353
- 4354 E) High Performance Liquid Chromatography with Photodiode Array
 4355 Ultraviolet Detector. USEPA 555 (92).
 4356
- 4357 3) 2,4,5-TP (Silvex)
 4358
- 4359 A) Gas Chromatography with Electron Capture Detector. ASTM
 4360 D5317-93, ASTM D5317-98(2003), [ASTM D5317-20](#), SM 6640
 4361 B (01), or SM 6640 B (06).
 4362
- 4363 B) Liquid-Liquid Extraction Gas Chromatography with Electron
 4364 Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 4365
- 4366 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4367 Capture Detector. USEPA 515.2 (95).
 4368
- 4369 D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas
 4370 Chromatography with Electron Capture Detector. USEPA 515.4
 4371 (00).
 4372
- 4373 E) High Performance Liquid Chromatography with Photodiode Array
 4374 Ultraviolet Detector. USEPA 555 (92).
 4375
- 4376 4) Alachlor
 4377
- 4378 A) Microextraction and Gas Chromatography. USEPA 505 (95)1.
 4379
- 4380 B) Gas Chromatography with Nitrogen-Phosphorus Detector.
 4381 USEPA 507 (95).
 4382
- 4383 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4384 Capture Detector. USEPA 508.1 (95).
 4385
- 4386 D) Liquid-Solid Extraction and Capillary Column Gas
 4387 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4388
- 4389 E) Solid Phase Extraction and Capillary Column Gas
 4390 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4391

- 4392 F) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4393 551.1 (95).
 4394
 4395 5) Atrazine
 4396
 4397 A) Microextraction and Gas Chromatography. USEPA 505 (95)1.
 4398
 4399 B) Gas Chromatography with Nitrogen-Phosphorus Detector.
 4400 USEPA 507 (95).
 4401
 4402 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4403 Capture Detector. USEPA 508.1 (95).
 4404
 4405 D) Liquid-Solid Extraction Gas Chromatography with Electron
 4406 Capture Detector. USEPA 523 (11).
 4407
 4408 E) Liquid-Solid Extraction and Capillary Column Gas
 4409 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4410
 4411 F) Solid Phase Extraction and Capillary Column Gas
 4412 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4413
 4414 G) Liquid Chromatography Electrospray Ionization Tandem Mass
 4415 Spectrometry. USEPA 536 (07).
 4416
 4417 H) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4418 551.1 (95).
 4419
 4420 I) Immunoassay. Syngenta AG-625².
 4421
 4422 6) Benzo(a)pyrene
 4423
 4424 A) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4425
 4426 B) Solid Phase Extraction and Capillary Column Gas
 4427 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4428
 4429 C) Liquid Liquid Extraction and HPLC with Coupled Ultraviolet and
 4430 Fluorescence Detection. USEPA 550 (90) or USEPA 550.1 (90).
 4431
 4432 7) Carbofuran. Direct Aqueous Injection HPLC with Post-Column
 4433 Derivatization. SM 6610 (92), 6610 (96), 6610 B (99), SM 6610 B (04),
 4434 USEPA 531.1 (95), or USEPA 531.2 (01).

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- 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).
 - 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).

- 4477 C) Liquid-Liquid Extraction, Gas Chromatography, Electron Capture
 4478 Detector. USEPA 551.1 (95).
 4479
- 4480 11) Di(2-ethylhexyl)adipate
 4481
- 4482 A) Liquid-Liquid or Liquid-Solid Extraction and Gas
 4483 Chromatography with Photoionization Detection. USEPA 506
 4484 (95).
 4485
- 4486 B) Liquid-Solid Extraction and Capillary Column Gas
 4487 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4488
- 4489 C) Solid Phase Extraction and Capillary Column Gas
 4490 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4491
- 4492 12) Di(2-ethylhexyl)phthalate
 4493
- 4494 A) Liquid-Liquid or Liquid-Solid Extraction and Gas
 4495 Chromatography with Photoionization Detection. USEPA 506
 4496 (95).
 4497
- 4498 B) Liquid-Solid Extraction and Capillary Column Gas
 4499 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4500
- 4501 C) Solid Phase Extraction and Capillary Column Gas
 4502 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4503
- 4504 13) Dinoseb
 4505
- 4506 A) Liquid-Liquid Extraction Gas Chromatography with Electron
 4507 Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 4508
- 4509 B) Liquid-Solid Extraction Gas Chromatography with Electron
 4510 Capture Detector. USEPA 515.2 (95).
 4511
- 4512 C) Liquid-Liquid Microextraction, Derivatization, and Fast Gas
 4513 Chromatography with Electron Capture Detector. SM 6640 B
 4514 (01), SM 6640 B (06), or USEPA 515.4 (00).
 4515
- 4516 D) High Performance Liquid Chromatography with Photodiode Array
 4517 Ultraviolet Detector. USEPA 555 (92).
 4518

- 4519 14) Diquat. Liquid-Solid Extraction and HPLC with Ultraviolet Detection.
 4520 USEPA 549.2 (97).
 4521
- 4522 15) Endothall. Ion-Exchange Extraction, Acidic Methanol Methylation and
 4523 Gas Chromatography/Mass Spectrometry. USEPA 548.1 (92).
 4524
- 4525 16) Endrin
 4526
- 4527 A) Microextraction and Gas Chromatography. USEPA 505 (95)1.
 4528
- 4529 B) Gas Chromatography with Electron Capture Detector. USEPA
 4530 508 (95).
 4531
- 4532 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4533 Capture Detector. USEPA 508.1 (95).
 4534
- 4535 D) Liquid-Solid Extraction and Capillary Column Gas
 4536 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4537
- 4538 E) Solid Phase Extraction and Capillary Column Gas
 4539 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4540
- 4541 F) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4542 551.1 (95).
 4543
- 4544 17) Ethylene Dibromide (EDB)
 4545
- 4546 A) Microextraction and Gas Chromatography. USEPA 504.1 (95).
 4547
- 4548 B) Purge and Trap Gas Chromatography-Mass Spectrometry. USEPA
 4549 524.3 (09).
 4550
- 4551 C) Liquid-Liquid Extraction, Gas Chromatography, Electron Capture
 4552 Detector. USEPA 551.1 (95).
 4553
- 4554 18) Glyphosate
 4555
- 4556 A) Direct Aqueous Injection HPLC, Post-Column Derivatization, and
 4557 Fluorescence Detection. USEPA 547 (90).
 4558
- 4559 B) Anion- or Cation-Exchange HPLC and Post-Column
 4560 Derivatization with Ultraviolet Fluorescence Detector. SM 6651 B
 4561 (91), SM 6651 B (96), SM 6651 B (00), or SM 6651 B (05).

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- 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.
 - 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.

- 4605 B) Gas Chromatography with Electron Capture Detector. USEPA
 4606 508 (95).
 4607
 4608 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4609 Capture Detector. USEPA 508.1 (95).
 4610
 4611 D) Liquid-Solid Extraction and Capillary Column Gas
 4612 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4613
 4614 E) Solid Phase Extraction and Capillary Column Gas
 4615 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4616
 4617 F) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4618 551.1 (95).
 4619
 4620 22) Hexachlorocyclopentadiene
 4621
 4622 A) Microextraction and Gas Chromatography. USEPA 505 (95)1.
 4623
 4624 B) Gas Chromatography with Electron Capture Detector. USEPA
 4625 508 (95).
 4626
 4627 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4628 Capture Detector. USEPA 508.1 (95).
 4629
 4630 D) Liquid-Solid Extraction and Capillary Column Gas
 4631 Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4632
 4633 E) Solid Phase Extraction and Capillary Column Gas
 4634 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4635
 4636 F) Liquid-Liquid Extraction and Gas Chromatography. USEPA
 4637 551.1 (95).
 4638
 4639 23) Lindane
 4640
 4641 A) Microextraction and Gas Chromatography. USEPA 505 (95)1.
 4642
 4643 B) Gas Chromatography with Electron Capture Detector. USEPA
 4644 508 (95).
 4645
 4646 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4647 Capture Detector. USEPA 508.1 (95).

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- 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).
 - 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 asalachlors)
- A) Microextraction and Gas Chromatography. USEPA 505 (95)1.
 - B) Gas Chromatography with Electron Capture Detector. USEPA 508 (95).

- 4691 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4692 Capture Detector. USEPA 508.1 (95).
 4693
 4694 D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4695
 4696 E) Solid Phase Extraction and Capillary Column Gas
 4697 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4698
 4699 28) Pentachlorophenol
 4700
 4701 A) Gas Chromatography with Electron Capture Detector. ASTM
 4702 D5317-93, ASTM D5317-98(2003), [ASTM D5317-20](#), SM 6640
 4703 B (01), or SM 6640 B (06).
 4704
 4705 B) Liquid-Liquid Extraction Gas Chromatography with Electron
 4706 Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 4707
 4708 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4709 Capture Detector. USEPA 515.2 (95).
 4710
 4711 D) Liquid-Liquid Microextraction, Derivatization, and Fast Gas
 4712 Chromatography with Electron Capture Detector. USEPA 515.4
 4713 (00).
 4714
 4715 E) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
 4716
 4717 F) Solid Phase Extraction and Capillary Column Gas
 4718 Chromatography-Mass Spectrometry. USEPA 525.3 (12).
 4719
 4720 G) High Performance Liquid Chromatography with Photodiode Array
 4721 Ultraviolet Detector. USEPA 555 (92).
 4722
 4723 29) Picloram
 4724
 4725 A) Gas Chromatography with Electron Capture Detector. ASTM
 4726 D5317-93, ASTM D5317-98(2003), [ASTM D5317-20](#), SM 6640
 4727 B (01), or SM 6640 B (06).
 4728
 4729 B) Liquid-Liquid Extraction Gas Chromatography with Electron
 4730 Capture Detector. USEPA 515.1 (89) or USEPA 515.3 (96).
 4731
 4732 C) Liquid-Solid Extraction Gas Chromatography with Electron
 4733 Capture Detector. USEPA 515.2 (95).

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- 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).
- 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).

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- 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 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).

- 4819 C) Liquid-Solid Extraction Gas Chromatography with Electron
4820 Capture Detector. USEPA 508.1 (95).
4821
4822 D) Gas Chromatography-Mass Spectrometry. USEPA 525.2 (95).
4823
4824 e) The following endnotes are appended to method entries in subsections (a) and (b):
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4826 ¹ denotes that, for the particular contaminant, a nitrogen-phosphorus detector
4827 should be substituted for the electron capture detector in USEPA 505 (95) (or
4828 another approved method should be used) to determine alachlor, atrazine, and
4829 simazine if lower detection limits are required.
4830

4831 ² denotes that Syngenta AG-625 (01) may not be used for the analysis of atrazine
4832 in any system where chlorine dioxide is used for drinking water treatment. In
4833 samples from all other systems, any result for atrazine generated by Syngenta
4834 AG-625 (01) that is greater than one-half the maximum contaminant level
4835 (MCL) (in other words, greater than 0.0015 mg/l or 1.5 µg/l) must be
4836 confirmed using another approved method for this contaminant and should use
4837 additional volume of the original sample collected for compliance monitoring.
4838 In instances where a result from Syngenta AG-625 (01) triggers such
4839 confirmatory testing, the confirmatory result is to be used to determine
4840 compliance.
4841

4842 BOARD NOTE: Derived from 40 CFR 141.24(e) and appendix A to subpart C of 40 CFR 141.
4843 The Board has not separately listed the following approved alternative methods from Standard
4844 Methods Online that are the same version as a method that appears in a printed edition of
4845 Standard Methods. Use of the Standard Methods Online copy is acceptable.
4846

4847 Standard Methods Online, Method 6610 B-04 appears in the 22nd and 23rd editions as
4848 Method 6610 B. In this Section, this appears as SM 6610 B (04).
4849

4850 Standard Methods Online, Method 6640 B-01 appears in the 21st edition as Method 6640
4851 B. In this Section, this appears as SM 6640 B (01).
4852

4853 Standard Methods Online, Method 6640 B-06 appears in the 22nd and 23rd editions as
4854 Method 6640 B. In this Section, this appears as SM 6640 B (06).
4855

4856 Standard Methods Online, Method 6651 B-00 appears in the 21st edition as Method 6651
4857 B. In this Section, this appears as SM 6651 B (00).
4858

4859 Standard Methods Online, Method 6651 B-05 appears in the 22nd and 23rd editions as
4860 Method 6651 B. In this Section, this appears as SM 6651 B (05).
4861

(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.
 - 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

- 4904 A) Radiochemical Methods. Georgia Radium (04); New Jersey
 4905 Radium (90); New York Radium (82); SM 7500-Ra D (88); SM
 4906 7500-Ra D (93); SM 7500-Ra D (01); USEPA 904.0 (80); [USEPA](#)
 4907 [904.0 \(22\)](#); USEPA Ra-05 (90); USEPA IRM (76), pages 24-28;
 4908 USEPA RCA (79), pages 19-32; or USGS R-1142-76.
 4909
 4910 B) Gamma Spectrometry. SM 7500-Ra E (01) or SM 7500-Ra E (07).
 4911
 4912 5) Uranium
 4913
 4914 A) Radiochemical Methods. SM 7500-U B (88), SM 7500-U B (91),
 4915 SM 7500-U B (96), SM 7500-U B (00), or USEPA 908.0 (80).
 4916
 4917 B) Fluorometric Methods. ASTM D2907-97, EML (90) U-04, EML
 4918 (97) U-04, SM 7500-U C (88), SM 7500-U C (91), SM 7500-U C
 4919 (96), SM 7500-U C (00), USEPA 908.1 (80), USGS R-1180-76, or
 4920 USGS R-1181-76.
 4921
 4922 C) ICP-MS Methods. ASTM D5673-03, ASTM D5673-05, ASTM
 4923 D5673-10, ASTM D5673-16; SM 3125 (97); or USEPA 200.8
 4924 (94).
 4925
 4926 D) Alpha Spectrometry. ASTM D3972-97; ASTM D3972-02; ASTM
 4927 D3972-09; EML (90) U-02; EML (97) U-02; USEPA 00-07 (84);
 4928 USEPA RCA (79), pages 33-48; or USGS R-1182-76.
 4929
 4930 E) Laser Spectrometry. ASTM D5174-97, ASTM D5174-02, or
 4931 ASTM D5174-07.
 4932
 4933 F) Alpha Liquid Scintillation Spectrometry. ASTM D6239-09.
 4934
 4935 BOARD NOTE: If uranium (U) is determined by mass, a conversion
 4936 factor of 0.67 pCi/μg of uranium must be used. This conversion factor is
 4937 based on the 1:1 activity ratio of ²³⁴U and ²³⁸U that is characteristic of
 4938 naturally occurring uranium.
 4939
 4940 6) Radioactive Cesium
 4941
 4942 A) Radiochemical Methods. ASTM D2459-72; SM 7500-Cs B (88),
 4943 SM 7500-Cs B (93); SM 7500-Cs B (00); USEPA 901.0 (80);
 4944 USEPA IRM (76), pages 4-5; or USGS R-1111-76.
 4945

- 4946 B) Gamma Ray Spectrometry. ASTM D3649-91; ASTM D3649-98a;
 4947 ASTM D3649-06; EML (90) Ga-01; EML (97) Ga-01-R; SM 7120
 4948 (94); SM 7120 (97); USEPA 901.1 (80); USEPA RCA (79), pages
 4949 92-95; or USGS R-1110-76.
 4950
 4951 7) Radioactive Iodine
 4952
 4953 A) Radiochemical Methods. ASTM D3649-91; ASTM D3649-98a;
 4954 ASTM D3649-06; SM 7500-I B (88); SM 7500-I B (93); SM
 4955 7500-I B (00); SM 7500-I C (88); SM 7500-I C (93); SM 7500-I C
 4956 (00); SM 7500-I D (88); SM 7500-I D (93); SM 7500-I D (00);
 4957 USEPA 902.0 (80); USEPA IRM (76), pages 6-8; or USEPA IRM
 4958 (76), pages 9-12.
 4959
 4960 B) Gamma Ray Spectrometry. ASTM D4785-93; ASTM D4785-00a;
 4961 ASTM D4785-08; [ASTM D4785-20](#); EML (90) Ga-01; EML (97)
 4962 Ga-01-R; SM 7120 (94); SM 7120 (97); USEPA 901.1 (80); or
 4963 USEPA RCA (79), pages 92-95.
 4964
 4965 8) Radioactive Strontium-89 and -90. Radiochemical Methods. EML (90)
 4966 Sr-01; EML (97) Sr-01; EML (90) Sr-02; EML (97) Sr-02; SM 303 (71);
 4967 SM 7500-Sr B (88); SM 7500-Sr B (93); SM 7500-Sr B (01); USEPA
 4968 905.0 (80); USEPA Sr-04 (84); USEPA IRM (76), pages 29-33; USEPA
 4969 RCA (79), pages 65-73; or USGS R-1160-76.
 4970
 4971 9) Tritium. Liquid Scintillation. ASTM D4107-91; ASTM D4107-98;
 4972 ASTM D4107-08; [ASTM D4107-20](#); SM 306 (71); SM 7500-3H B (88);
 4973 SM 7500-3H B (93); SM 7500-3H B (00); USEPA 906.0 (80); USEPA H-
 4974 02 (84); USEPA IRM (76), pages 34-37; USEPA RCA (79), pages 87-91;
 4975 or USGS R-1171-76.
 4976
 4977 10) Gamma Emitters. Gamma Ray Spectrometry. ASTM D3649-91; ASTM
 4978 D3649-98a; ASTM D3649-06; ASTM D4785-93; ASTM D4785-00a;
 4979 ASTM D4785-08; [ASTM D4785-20](#); EML (90) Ga-01; EML (97) Ga-01-
 4980 R; SM 7120 (94); SM 7120 (97); SM 7500-Cs B (88); SM 7500-Cs B
 4981 (93); SM 7500-Cs B (00); SM 7500-I B (88); SM 7500-I B (93); SM
 4982 7500-I B (00); USEPA 901.0 (80); USEPA 901.1 (80); USEPA 902.0
 4983 (80); USEPA RCA (79), pages 92-95; or USGS R-1110-76.
 4984
 4985 b) When the identification and measurement of radionuclides other than those listed
 4986 in subsection (a) are required, the following methods, incorporated by reference in
 4987 Section 611.102, are to be used, except in cases where alternative methods have
 4988 been approved in accordance with Section 611.480:

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- 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:

Contaminant	Detection Limit
Gross alpha particle activity	3 pCi/ℓ
Radium-226	1 pCi/ℓ
Radium-228	1 pCi/ℓ
	1 µg/ℓ

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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

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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 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).

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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)

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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).

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