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COMPLETE AND SUBMIT ONLY THE APPLICABLE PAGES FOR CERTIFICATION

A. Purpose of Application: Check one and complete the information.

- Initial Certification (New Lab) EPA Lab Code
Additional Parameter Certification Assigned S.C. Laboratory I.D. #
PT Recertification (Due to PT Failure) Certificate # (Ex: 001, 002, etc.)
Recertification of Entire Lab (Lab Previously Certified) -- Old SC Laboratory I.D. #
Change in Certifying Authority - From: to

B. Type of Laboratory

- Commercial Federal Industrial Mobile Municipal State Field

C. Laboratory Name: As preferred to be on certificate. Names will be abbreviated as needed to fit certificate.

[Empty text box for Laboratory Name]

D. Legal Company Name: Name as registered with the South Carolina Secretary of State's Office.

[Empty text box for Legal Company Name]

E. Laboratory's Federal Employee Tax ID Number (FEIN): --

Is the FEIN assigned to the Company listed in D.? If not, list Parent Company in F. below.

F. Parent Company Name: If different from legal company name above, enter the name of the parent company that owns the laboratory.

[Empty text box for Parent Company Name]

G. Laboratory Mailing Address:

[Empty text box for Mailing Address]

(P.O. Box or Number and Street)

[Three empty text boxes for City, State, and Zip Code]

(City)

(State)

(Zip Code)

H. Laboratory Business (Physical) Address:

[Empty text box for Business Address]

(Number and Street)

[Four empty text boxes for City, State, Zip Code, and County Code]

(City)

(State)

(Zip Code)

(County Code)

I. Laboratory Telephone Number:

[Empty text box for Telephone Number]

Laboratory FAX Number:

[Empty text box for FAX Number]

J. Laboratory Billing Address (for Certification Invoices):

(Billing Name)

(P.O. Box or Number and Street)

(City)

(State)

(Zip Code)

K. Laboratory E-mail Address:

L. Parent Company Business (Physical) Address:

(Number and Street)

(City)

(State)

(Zip Code)

M. Parent Company Telephone Number:

N. Out-of-State Laboratories Only: Only one State Certifying Authority can be designated for each program below and the State Certifying Authority must have performed an on-site laboratory evaluation within last 3 years.

Safe Drinking Water Act:

Name of State Certifying Authority: _____ Expiration Date: _____

Clean Water Act:

Name of State Certifying Authority: _____ Expiration Date: _____

Solid and Hazardous Waste:

Name of State Certifying Authority: _____ Expiration Date: _____

O. Laboratory Director: (Primary Contact) - Designate the person responsible for the laboratory operations. Attach a resume and/or qualifications. A laboratory director designation letter must accompany the application if not already on file.

Name and Title

Telephone Number & Ext

Mobile Number

E-Mail Address:

Education:

Name of Institution: _____

Degree: _____ Major Field: _____

Certificates or Registrations Held: _____

Issuing Agency: _____ Date of Issue: _____

Experience (related to laboratory analysis): _____

P. Quality Assurance Officer or General Certification Contact Person for Laboratory:

Name and Title

Telephone Number & Ext

Mobile Number

E-Mail Address:

Q. Laboratory Personnel: List all personnel involved in the laboratory operations. Please make copies of this form for additional personnel. Resumes may be attached.

Name: _____ **Position Held:** _____

Education and Experience: _____

License or Registration: _____

Primary Responsibilities in the Laboratory: _____

Name: _____ **Position Held:** _____

Education and Experience: _____

License or Registration: _____

Primary Responsibilities in the Laboratory: _____

Name: _____ **Position Held:** _____

Education and Experience: _____

License or Registration: _____

Primary Responsibilities in the Laboratory: _____

Name: _____ **Position Held:** _____

Education and Experience: _____

License or Registration: _____

Primary Responsibilities in the Laboratory: _____

R. Safe Drinking Water Act Methodology:

Disinfection By-Products: Circle only the EPA-approved methodology that the laboratory is seeking certification to Perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Bromate	300.1 (1987) 302 (2009) 317.0 ⁴⁵ (2001) 326.0 ⁴⁵ (2002) 321.8 ^{45,46} (1987) 557 (2009)		
Bromide	300.0 (1993) 300.1 (1987)		
Chlorite (Monthly/Daily) ¹¹	300.0 (1993) 300.1 (1997) 317.0 (2001) 326.0 (2002) 327.0 (2005)	SM 4500-ClO ₂ E-2021 ¹¹	Chlordio X Plus (2013 or 2020)
UV ₂₅₄ ⁴⁹	415.3 (2009)	SM 5910 B-2021	

Inorganic-Demand: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Total Organic Carbon/ Dissolved Organic Carbon (TOC/DOC) ^{47,48}	415.3 (2009)	SM 5310 B-2022 SM 5310 C-2014 SM 5310 D-2011	

Inorganic Mineral: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Alkalinity		SM 2320 B-2021	
Calcium-Hardness		SM 3500-Ca B-2020	
Chloride	300.0 (1993) 300.1 (1997)	SM 4110 B-2020 SM 4500-Cl ⁻ B-2021 SM 4500-Cl ⁻ D-2021	
Fluoride	300.0 (1993) 300.1 (1997)	SM 4110 B-2020 SM 4500-F ⁻ B -2021 SM 4500-F ⁻ C-2021 SM 4500-F ⁻ D -2021 SM 4500-F ⁻ E-2021	
Hydrogen-Ion Concentration (pH)	150.1 (1983) 150.2 (1983)	SM 4500 H ⁺ B-2021	
Specific Conductance		SM 2510 B-2021	
Sulfate	300.0 (1993) 300.1 (1997) 375.2 (1993)	SM 4110 B-2020 SM 4500-SO ₄ ²⁻ F-2021 SM 4500-SO ₄ ²⁻ C-2021 SM 4500-SO ₄ ²⁻ D-2021 SM 4500-SO ₄ ²⁻ E-2021	

R. Safe Drinking Water Act Methodology:

Inorganic-Miscellaneous: Circle only the methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The Certifying Authority's certificate must reflect the certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Asbestos	100.1 (1983) 100.2 (1994)		
Chlorine Dioxide	327.0 (2003)	SM 4500-CIO2 C-2021 ⁸ SM 4500-CIO2 E-2021	Chlordio X Plus (2013 or 2020)
Color - Visual - Spectrophotometric (Plat. Cobalt)		SM 2120 B-2021	NCASI-71.01-TB803 (2000) ⁹
Cyanide, Total (Screening) ³¹ (Manual Distillation Required)	335.4 (1993)	SM 4500-CN C-2021	10-204-00-1-X (Rev. 2.1, 2000) OIA-1677 ³²
	335.4 (1993)	SM 4500-CN E-2021 SM 4500-CN F-2021 SM 4500-CN G-2021 ³¹	
Odor		SM 2150 B-2020	
Ozone		SM 4500-O ₃ B-2021	
Residual Chlorine		SM 4500-CI D-2021 SM 4500-CI E-2021 SM 4500-CI F-2021 SM 4500-CI G-2021	
Surfactants (MBAS)		SM 5540 C-2021	
Temperature		SM 2550 B-2021	
Turbidity – 90° Nephelometry (Tungsten Lamp)	180.1 (1993)	SM 2130 B-2020	
Turbidity – 90° Nephelometry (LED)			Orion AQ 4500 (Rev. 1.0, 2009)
Turbidity – 360° Nephelometry (Laser)			Hach 10258 (Rev. 2.0, 2018)

Inorganic – Nutrient: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Nitrate-Nitrogen	300.0 (1993) 300.1 (1997) 353.2 (1993)	SM 4110 B-2020 SM 4500-NO ₃ ⁻ F-2019 SM 4500-NO ₃ ⁻ E-2019 SM 4500-NO ₃ ⁻ D-2019	
Nitrate-Nitrite (NO ₃ + NO ₂)	300.0 (1993) 300.1 (1997) 353.2 (1993)	SM 4110 B-2020 SM 4500-NO ₃ ⁻ F-2019 SM 4500-NO ₃ ⁻ E-2019	
Nitrite-Nitrogen	300.0 (1993) 300.1 (1997) 353.2 (1993)	SM 4110 B-2020 SM 4500-NO ₃ ⁻ F-2019 SM 4500-NO ₃ ⁻ E-2019 SM 4500-NO ₂ ⁻ B-2021	
Orthophosphate	300.0 (1993) 300.1 (1997) 365.1 (1993)	SM 4110 B-2020 SM 4500-P F-2021 SM 4500-P E-2021	
Phosphorus		<u>Digestion:</u> SM 4500-P B(5)-2021 <u>Followed by:</u>	
Phosphorus (con'd)	300.0 (1993) 365.1 (1993)	SM 4110 B-2020 SM 4500-P F-2021	

	365.2 (1971) 365.3 (1978)	SM 4500-P E-2021	
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R. Safe Drinking Water Act Methodology:

Inorganic – Trace Metal: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority’s certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	GFAA/ Platform	GFAA/ Furnace	ICP		ICP/ MS	Other	
	EPA ¹	SM ¹	EPA ¹	SM ¹	EPA ¹	EPA ¹	SM ¹
Aluminum	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		3111 D-2019
Antimony	200.9 (1994)	3113 B-2020			200.8 (1994)		
Arsenic	200.9 (1994)	3113 B-2020			200.8 (1994)		
Barium		3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		3111 D-2019
Beryllium	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		
Cadmium	200.9 (1994)	3113 B-2020	200.7 (1994)		200.8 (1994)		
Calcium			200.7 (1994)	3120 B-2020			3111 B-2019
Chromium	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		
Copper	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		3111 B-2019
Iron	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020			3111 B-2019
Lead	200.9 (1994)	3113 B-2020			200.8 (1994)		
Magnesium			200.7 (1994)	3120 B-2020			3111 B-2019
Manganese	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		3111 B-2019
Mercury					200.8 (1994)	245.1 (1983) 245.2 (1994)	3112 B-2020
Nickel	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		3111 B-2019
Selenium	200.9 (1994)	3113 B-2020			200.8 (1994)		
Silica			200.7 (1994)	3120 B-2020			4500 SiO ₂ C-2021 4500 SiO ₂ E-2021
Silver	200.9 (1994)	3113 B-2020	200.7 (1994)	3120 B-2020	200.8 (1994)		3111 B-2019
Sodium			200.7 (1994)				3111 B-2019
Thallium	200.9 (1994)				200.8 (1994)		
Zinc			200.7 (1994)	3120 B-2020	200.8 (1994)		3111 B-2019

R. Safe Drinking Water Act Methodology:

Inorganic – Residue: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority’s certificate must reflect the appropriate certification from each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Residue, Filterable (TDS)		SM 2540 C-2020	

Microbiology: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. The laboratory must be approved for a total coliform method and an *E. coli* method. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹
<i>E. coli</i> Enumeration (MF)	SM 9222B/9222H-2015 SM 9222 J-2015 m-ColiBlue24® ⁶ (1999)
<i>E. coli</i> Enumeration (MPN)	SM 9221B/9221F-2014
Heterotrophic Bacteria ³⁷	SM 9215 B-2022 SimPlate ³⁶ (2000)
Total Coliform (MF) ² <i>E. coli</i> Confirmation	SM 9222 B-2015 (m-Endo medium) SM 9222 H-2015
Total Coliform/ <i>E. coli</i> (simultaneous)	SM 9222 J-2015 m-ColiBlue24® ⁶ (1999)
Total Coliform (MPN)	SM 9221 B-2014
Total Coliform (P-A) <i>E. coli</i> Confirmation	SM 9221 D-2014 SM 9221 F-2014
Total Coliform/ <i>E. coli</i> - Presence/Absence Enzyme Substrate	SM 9223 B-2016 Colilert ³ SM 9223 B-2016 Colisure® ⁴ Modified Colitag® ⁴⁰ (2020) TECTA EC/TC (2017)
Membrane Filtration	SM 9222 J-2015 m-ColiBlue24® ⁶ (1999)
Total Coliform/ <i>E. coli</i> (MPN)*	SM 9223 B-2016 Colilert Quanti-Tray® ³
Cryptosporidium	EPA 1622 (2005) EPA 1623 (2005) EPA 1623.1 (2012)

* Method can be used for reporting under the TCR, SWTR, and LT2 Rule.
LT2 Rule requires enumeration of *E. Coli*.

Trihalomethanes: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled.

Parameter	EPA Methodology ¹		
	GC	GC/MS	
Volatile Organics by P&T – GC/PID/Hall	502.2 (1995)		
Purgeable Organics by Cap. Col. – GC/MS		524.2 (1995)	524.3 (2009) 524.4 (2013)
Disinfection Byproducts & Chlor. Solvents GC-ECD		551.1 (1995)	

R. Safe Drinking Water Act Methodology:

Volatiles (VOCs): Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled.

Parameter	EPA Methodology ¹	
	GC	GC/MS

Volatile Organics by P&T – GC/PID/Hall	502.2 (1995)			
Purgeable Organics by Cap. Col. – GC/MS			524.2 (1995)	524.3 (2009) 524.4 (2013)
Disinfection Byproducts & Chlor. Solvents GC/ECD		551.1 (1995)		

Synthetic Organic Chemicals (SOCs): Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled.

Analytical Method	EPA Methodology ¹			
	GC	GC/MS	HPLC	
Tetra-Octa-Chlor. Dioxins & Furans - HRGC/HRMS		1613B (1994)		
EDB, DBCP, 1,2,3 TCP by Microext - GC/ECD	504.1 (1995)			
Organohalide Pest & PCBs by Microext - GC/ECD	505 ¹⁶ (1995)			
Phthalate and Adipate Esters - GC-PID	506 (1995)			
Nitrogen & Phosphorus Pesticides - GC/NPD	507 (1995)			
Chlorinated Pesticides by Liq-Liq Ext. - GC/ECD	508 (1995)			
Chlorinated Pesticides by LSE - GC/ECD	508.1 (1995)			
Screening for PCBs by Perchlorination - GC/ECD	508A ¹⁴ (1989)			
Chlorinated Acids by Liq-Liq Ext. - GC/ECD	515.1 (1989)			
Chlorinated Acids by Liq-Solid Ext. - GC/ECD	515.2 (1995)			
Chlorinated Acids by Liq-Liq Ext. - GC/ECD	515.3 (1996)	555 (1992)		
Chlorinated Acids by Liq-Liq Micro Ext - GC/ECD	515.4 (2000)			
Organic Compounds by Liq-Solid Ext. - GC/MS		525.2 (1995) 525.3 (2012)		
N-Methylcarbamoyloximes & Carbamates - HPLC			531.1 (1995) 531.2 (2001)	
Glyphosate - HPLC/Fluorescence Detector			547 (1990)	SM 6651 B-2021
Endothall - GC/MS		548.1 (1992)		
Diquat & Paraquat - HPLC/UV Detector			549.2 (1997)	
Polynuclear Arom. Hydroc. (PAHs) - HPLC/UV & Fluorescence				550 (1990) 550.1 (1990)
Disinfection By-Products, Chlor. Solvents, Halogenated Pest/Herb - GC/ECD	551.1 (1995)			
Haloacetic Acids & Dalapon by Ion Exchange Liq-Solid Ext. – GC/ECD	552.1 (1992)			
Haloacetic Acids & Dalapon by Liq-Liq Ext. - GC-ECD	552.2 (1995) 552.3 (2003)	SM 6251 B-2020		

R. Safe Drinking Water Act Methodology:

Per- and Polyfluorinated Alkyl Substances: Note that only the EPA-approved analytes are listed and that laboratories must get certification for each analyte i.e., all or none for the method(s) selected. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method / PFAS analyte.

Analyte	EPA Methodology ¹	
	LC/MS/MS	
Perfluorooctanoic Acid (PFOA)	533 (2019)	537.1 (2020)
Perfluorooctane Sulfonic Acid (PFOS)	533 (2019)	537.1 (2020)
Perfluorohexane Sulfonic Acid (PFHxS)	533 (2019)	537.1 (2020)
Perfluorononanoic Acid (PFNA)	533 (2019)	537.1 (2020)
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA) aka Gen X	533 (2019)	537.1 (2020)
Perfluorobutane Sulfonic Acid (PFBS)	533 (2019)	537.1 (2020)

Inorganic – Radiological: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certification must reflect the appropriate certification for each parameter and method circled.

Parameter	EPA ¹ Methodology	StandardMethods ¹
¹³¹ Iodine	901.1 (1980) 902.0 (1980)	SM 7120 B-2021 SM 7500-I B-2020 SM 7500-I C-2020 SM 7500-I D-2020
Gross Alpha	900.0 (2018)	SM 7110 B-2021 SM 7110 C-2021
Gross Beta	900.0 (2018)	SM 7110 B-2021
²²⁶ Radium	903.0 (2021) 903.1 (2021)	SM 7500-Ra B-2021 SM 7500-Ra C-2021 SM 7500-Ra E-2007
²²⁸ Radium	904.0 (1980)	SM 7500-Ra D-2021 SM 7500-Ra E-2007
⁸⁹ Strontium	905.0 (1980)	SM 7500-Sr B-2021
⁹⁰ Strontium	905.0 (1980)	SM 7500-Sr B-2021
Tritium	906.0 (1980)	SM 7500- ³ H B-2022
Uranium Radiochemical Fluorometric Alpha Spectrometry ICP/MS	908.0 (1980) 908.1 (1980) 200.8 (1994)	SM 7500-U B-2021 SM 7500-U C-2021
Gamma Emitters ⁴³	901.1 (1980) 902.0 (1980) 901.0 (1980)	SM 7120 B-2021 SM 7500 Cs B-2020 SM 7500 I B-2020

S. Clean Water Act Methodology:

Microbiology: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Enterococci (MF)	1600.1 (2023)	SM 9230 C-2013	
Enterococci (MPN)		SM 9230 D-2013 (Enterolert® ¹⁷)	
Fecal Coliform (MF)		SM 9222 D-2015	
Fecal Coliform (MPN)		SM 9221 C E-2014 SM 9221 F - 2014	Colilert® 18 (2010) ²⁰
Fecal Coliform (MPN) Biosolids Biosolids Preparation	1680 (2010) ²⁴ 1681 (2006) ²⁴	SM 9221 E-2014 (Biosolids Preparation Certification Required)	EPA/625/R-92/013 App F ⁴² (2003)
Total Coliform (MF)		SM 9222 B-2015	
Total Coliform (MPN)		SM 9221 B-2014	
Fecal Streptococci (MF)		SM 9230 C-2013	
Fecal Streptococci (MPN)		SM 9230 B-2013	
<i>E. Coli</i> (MF)	1603.1 (2023)	SM 9222 B-2015/SM9222 I-2015	m-ColiBlue24® ⁶ (1999)
<i>E. Coli</i> (MPN)		SM 9223B-2016 (Colilert®/Colilert- 18®) SM 9221B-2014/9221F-2014	
* <i>Cryptosporidium</i>	1622 (2005) 1623 (2005) 1623.1 (2012)		
* <i>Giardia</i>	1623 (2005) 1623.1 (2012)		

* For ambient water testing only.

Taxonomy: Circle the parameter that the laboratory is seeking certification to perform.

Parameter	Methodology
Freshwater Fish	Key/Reference
Freshwater Macroinvertebrates	Key/Reference
Ichthyoplankton	Key/Reference
Macrophytes	Key/Reference
Marine/Estuarine Fish	Key/Reference
Marine/Estuarine Macroinvertebrates	Key/Reference
Periphyton	Key/Reference
Phytoplankton	Key/Reference
Zooplankton	Key/Reference

S. Clean Water Act Methodology:

Toxicity Testing: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Laboratories must be certified for pH, DO, alkalinity, specific conductance, hardness, and residual chlorine in order to become certified for toxicity. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled. If the certificate does not state that the laboratory's certification includes pH, DO, alkalinity, specific conductance, hardness, and residual chlorine; a letter from the State Certifying Authority stating that these parameters have been evaluated, must be submitted with this application.

Parameter	Methodology ¹
<u>Ceriodaphnia dubia</u>	
Acute Toxicity - <i>Ceriodaphnia dubia</i>	EPA 2002.0 (2002)
Chronic Toxicity - <i>Ceriodaphnia dubia</i>	EPA 1002.0 (2002)
<u>Mysidopsis bahia (Americamysis bahia)</u>	
Acute Toxicity - <i>Mysidopsis bahia</i>	EPA 2007.0 (2002)
Chronic Toxicity - <i>Mysidopsis bahia</i>	EPA 1007.0 (2002)
<u>Pimephales promelas</u>	
Acute Toxicity - <i>Pimephales promelas</i>	EPA 2000.0 (2002)
Chronic Toxicity - <i>Pimephales promelas</i>	EPA 1000.0 (2002)
<u>Daphnia ambigua</u>	
Acute Toxicity - <i>Daphnia ambigua</i>	EPA 2002.0 (2002)
Chronic Toxicity - <i>Daphnia ambigua</i>	EPA 1002.0 (2002)
<u>Cyprinodon variegatus</u>	
Acute Toxicity - <i>Cyprinodon variegatus</i>	EPA 2004.0 (2002)
Chronic Toxicity - <i>Cyprinodon variegatus</i>	EPA 1004.0 (2002)
<u>Menidia beryllina</u>	
Acute Toxicity – <i>Menidia beryllina</i>	EPA 2006.0 (2002)
Chronic Toxicity – <i>Menidia beryllina</i>	EPA 1006.0 (2002)

Inorganic – Biological Examinations: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled where applicable.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Biomass – Plankton		SM 10200 I-2020	
Biomass – Periphyton (Dry Weight)		SM 10300 C-2021	
Chlorophyll a	445.0 (1997) ⁴¹	SM 10150 B-2022	

S. Clean Water Act Methodology:

Inorganic – Demand: Circle only the EPA-approved methodology that the laboratory is seeking to perform. Out-of-state laboratories: The State Certifying Authority’s certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Biochemical Oxygen Demand (BOD ₅) (DO Certification Required)		SM 5210 B-2016	Hach 10360 Rev.1.2 (2011) ⁵
Carbonaceous BOD (CBOD ₅) (DO Certification Required)		SM 5210 B-2016	Hach 10360 Rev.1.2 (2011) ⁵
Chemical Oxygen Demand	410.3 (1978) 410.4 (1993)	SM 5220 B-2011 SM 5220 C-2011 SM 5220 D-2011	Hach 8000 (1979)
Dissolved Oxygen (DO)		SM 4500-O C-2021 SM 4500-O G-2021 SM 4500-O H-2021	ASTM D888-18(A) ASTM D888-18(B) ASTM D888-18(C) ⁵ Hach 10360 Rev.1.2 (2011) ⁵
Total Organic Carbon (TOC)		SM 5310 B-2014 SM 5310 C-2014 SM 5310 D-2011	

Inorganic – Mineral: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority’s certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Acidity		SM 2310 B-2020	
Alkalinity	310.2 (1974)	SM 2320 B-2021	
Chloride	300.0 (1993) 300.1 (1997)	SM 4110 B-2020 SM 4110 C-2020 SM 4500-Cl ⁻ B-2021 SM 4500-Cl ⁻ E-2021 SM 4500-Cl ⁻ D-2021 SM 4500-Cl ⁻ C-2021	
Fluoride	300.0 (1993) 300.1 (1997)	SM 4110 B-2020 SM 4110 C-2020	
Manual distillation required:		SM 4500-F ⁻ B-2021	
Followed by:		SM 4500-F ⁻ D-2021 SM 4500-F ⁻ C-2021 SM 4500-F ⁻ E-2021	
Hardness, Total (CaCO ₃)	130.1 (1971)	SM 2340 C-2021 SM 2340 B-2021(calc.)	
Hydrogen-Ion Concentration (pH)	150.2 (1982)	SM 4500-H ⁺ B-2021	
Specific Conductance	120.1(1982)	SM 2510 B-2021	
Sulfate	300.0 (1993) 300.1 (1997) 375.2 (1993)	SM 4110 B-2020 SM 4110 C-2020 SM 4500-SO ₄ ²⁻ C-2021 SM 4500-SO ₄ ²⁻ D-2021 SM 4500-SO ₄ ²⁻ E-2021 SM 4500-SO ₄ ²⁻ F-2021 SM 4500-SO ₄ ²⁻ G-2021	

S. Clean Water Act Methodology

Inorganic – Miscellaneous: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Adsorbable Organic Halides (AOX)	1650C (1997)		
Bromide	300.0 (1993) 300.1 (1997)	SM 4110 B-2020 SM 4110 C-2020 SM 4110 D-2020 SM 4140 B-2011	
Color - ADMI (Tristimulus) - Visual(Platinum Cobalt) - Spectrophotometric (Plat.Cobalt)		SM 2120 F-2021 SM 2120 B-2021	NCASI 71.01-TB803 (2000)
Cyanide, Total			ASTM D7511-12
Distillation with MgCl ₂ required:	335.4 (1993)	SM 4500-CN- B,C-2021	10-204-00-1-X ³⁴
Followed by:	335.4 (1993)	SM 4500-CN- D-2021 SM 4500-CN- E-2021 SM 4500-CN- F-2021 SM 4500-CN- N-2021	10-204-00-1-X ³⁴
Cyanide, Amenable (Must be certified for Total Cyanide)		SM 4500-CN-G-2021 ³³	
Cyanide Available			OIA-1677-09 ³²
Cyanide, Free			OIA-1677-09 ³²
Hydrogen Peroxide (H ₂ O ₂)		SM 4500-H ₂ O ₂ B-2020	
Peracetic Acid (PAA)		SM 4500-PAA B-2019	
Oil and Grease	1664B (2010)	SM 5520B-2021 SM 5520G-2021	
Phenols Manual distillation required:	420.1 (1978)	SM 5530B-2021	
Followed by:	420.1 (1978) 420.4 (1993)	SM 5530D-2021	
Residual Chlorine		SM 4500-CI B-2011 SM 4500-CI C-2011 SM 4500-CI D-2011 SM 4500-CI E-2011 SM 4500-CI F-2011 SM 4500-CI G-2011	Orion-77
Sulfide Sample Pretreatment		SM 4500-S ²⁻ B-2021 SM 4500-S ²⁻ C-2021	
Followed by:		SM 4500-S ²⁻ D-2021 SM 4500-S ²⁻ F-2021 SM 4500-S ²⁻ G-2021	
Sulfite		SM 4500-SO ₃ ²⁻ B-2021	
Surfactants (MBAS)		SM 5540 C-2021	
Temperature		SM 2550 B-2021	
Turbidity	180.1 (1993)	SM 2130 B-2020	

S. Clean Water Act Methodology

Inorganic – Nutrient: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Ammonia-Nitrogen Manual distillation or gas diffusion required: Followed by:	350.1 (1993)	SM 4500-NH ₃ B-2021	
	350.1 (1993)	SM 4500-NH ₃ C-2021 SM 4500-NH ₃ D-2021 SM 4500-NH ₃ E-2021 SM 4500-NH ₃ F-2021 SM 4500-NH ₃ G-2021 SM 4500-NH ₃ H-2021	
Kjeldahl-Nitrogen (TKN) Manual digestion and distillation or gas diffusion required: Followed by: Manual distillation not required:		SM 4500-Norg B-2021 SM 4500-Norg C-2021 SM 4500-NH ₃ B-2021	
	350.1 (1993)	SM 4500-NH ₃ C-2021 SM 4500-NH ₃ D-2021 SM 4500-NH ₃ E-2021 SM 4500-NH ₃ F-2021 SM 4500-NH ₃ G-2021 SM 4500-NH ₃ H-2021	
	351.1 (1978) 351.2 (1993)	SM 4500-Norg D-2021	
Nitrate-Nitrogen (NO ₃)	352.1 (1971) 300.0 (1993) 300.1 (1997)	SM 4110 B-2020 SM 4110 C-2020 SM 4500-NO ₃ D-2019	NO ₃ -NO ₂ Minus NO ₂
Nitrate-Nitrite Nitrogen (NO ₃ + NO ₂)	353.2 (1993) 300.0 (1993) 300.1 (1997)	SM 4500-NO ₃ ⁻ E-2019 SM 4500-NO ₃ ⁻ F-2019 SM 4500-NO ₃ ⁻ H-2019 SM 4500-NO ₃ ⁻ I-2019 SM 4500-NO ₃ ⁻ J-2018 SM 4110 B-2020 SM 4110 C-2020	
Nitrite-Nitrogen (NO ₂)	353.2 (1993) 300.0 (1993) 300.1 (1997)	SM 4500-NO ₂ ⁻ B-2021 SM 4500-NO ₃ ⁻ E-2019 SM 4500-NO ₃ ⁻ F-2019 SM 4500-NO ₃ ⁻ I-2019 SM 4500-NO ₃ ⁻ J-2018 SM 4110 B-2020 SM 4110 C-2020	
Orthophosphate	365.1 (1993)	SM 4500-P F-2021 SM 4500-P G-2021	
	365.3 (1978) 300.0 (1993) 300.1 (1997)	SM 4500-P E-2021 SM 4110 B-2020 SM 4110 C-2020	
Phosphorus		Digestion: SM 4500-P B(5)-2021	
	365.4 (1974) 365.1 (1993) 365.3 (1978) 200.7 (1994)	Followed by: SM 4500-P E-2021 SM 4500-P F-2021 SM 4500-P G-2021 SM 4500-P H-2021	
Total Organic Nitrogen			TKN-NH ₃ (N)

S. Clean Water Act Methodology:

Inorganic – Trace Metal: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	STGFAA	GF	ICP	ICP/MS	Other	
	EPA ¹	SM ¹	EPA ¹	EPA ¹	EPA ¹	SM ¹
Aluminum	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Antimony	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Arsenic	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Barium		SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Beryllium	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Boron			200.7 (1994)	200.8 (1994)		
Cadmium	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Calcium			200.7 (1994)	200.8 (1994)		
Chromium	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Chromium VI (Dissolved)					218.6 (1994)	SM 3500-Cr C-2011 SM 3500-Cr B-2011
Cobalt	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Copper	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Gold				200.8 (1994)	231.2 (1978)	
Iridium					235.2 (1978)	
Iron	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Lead	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Magnesium			200.7 (1994)	200.8 (1994)		
Manganese	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Mercury					1631E (2002) 245.1 (1994) 245.2 (1974) 245.7 (2005)	SM 3112 B-2020
Sampling for Low-Level Metals					EPA 1669 (1996)	
Molybdenum		SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Nickel	200.9 (1994)	SM 3113 B-2020	200.7 (1994)	200.8 (1994)		
Osmium					252.2 (1978)	
Palladium					253.2 (1978)	

S. Clean Water Act Methodology:

Inorganic – Trace Metal (continued): Circle the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's Certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	STGFAA	GF	ICP	ICP/MS	Other	
	EPA ¹	SM ¹	EPA ¹	EPA ¹	EPA ¹	SM ¹
Platinum					255.2 (1978)	
Potassium			200.7 (1994)	200.8 (1994)		
Rhodium					265.2 (1978)	
Ruthenium					267.2 (1978)	
Selenium	200.9 (1994)	3113 B-2020	200.7 (1994)	200.8 (1994)		
Silica, Dissolved			200.7 (1994)	200.8 (1994)		
Silver	200.9 (1994)	3113 B-2020	200.7 (1994)	200.8 (1994)		
Sodium			200.7 (1994)	200.8 (1994)		
Strontium			200.7 (1994)			
Thallium	200.9 (1994)	3113 B-2020	200.7 (1994)	200.8 (1994)	279.2 (1978)	
Tin	200.9 (1994)	3113 B-2020	200.7 (1994)	200.8 (1994)		
Titanium			200.7 (1994)	200.8 (1994)	283.2 (1978)	
Vanadium		3113 B-2020	200.7 (1994)	200.8 (1994)		
Zinc			200.7 (1994)	200.8 (1994)	289.2 (1978)	

Inorganic – Radiological: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certification must reflect the appropriate certification for each parameter and method circled.

Parameter	EPA ¹ Methodology	Standard Methods ¹
Alpha-Total, pCi per liter	900.0 (1980)	SM 7110B-2000
Alpha-Counting error, pCi per liter	Appendix B (1980)	SM 7110B-2000
Beta-Total, pCi per liter	900.0 (1980)	SM 7110B-2000
Beta-Counting error, pCi per liter	Appendix B (1980)	SM 7110B-2000
(a)Radium, Total, pCi per liter	903.0 (1980)	SM 7500-Ra B-2001
(b)Radium, pCi per liter	903.1 (1980)	SM 7500-Ra C-2001

Inorganic – Residue: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Residue, Filterable (TDS)		SM 2540 C-2020	
Residue, Non-filterable (TSS)		SM 2540 D-2020	
Residue, Settleable (SS)		SM 2540 F-2020	
Residue, Total (TS)		SM 2540 B-2020	
Residue, Volatile (VS) ³⁵	160.4 (1971)	SM 2540 E-2020	
Total, Fixed, & Volatile Solids ⁴⁴		SM 2540 G-2020	

S. Clean Water Act Methodology:

Organic Analyses: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled. **Include a list of requested analytes for each method.**

Parameter	Methodology ¹		
	GC	GC/MS	HPLC
Pesticides & PCBs			
Organochlorine Pesticides & PCBs	EPA 608.3 ¹⁵ (2016) EPA 608.3 ¹⁵ -RVE (2016)		
Organophosphate Pesticides	SM 6630 C-2007		
Herbicides			
Chlorinated Phenoxy Acid Herbicides	SM 6640 B-2006 EPA 615 (1992)		
Volatiles			
Volatile Organics by Isotope Dilution –GC/MS		EPA 1624B (1984) EPA 1624C ³⁰ (1990)	
VOCs by Isotope Dilution – GC/MS		EPA 1666A (1998)	
VOCs by GC-FID	EPA 1671A (1998)		
Purgeable Halocarbons –GC/Hall	EPA 601 (1994)		
Purgeable Aromatics – GC/PID	EPA 602 (1984)		
Acrolein & Acrylonitrile	EPA 603 (1984)	EPA 624.1 (2016)	
Purgeables – GC/MS		EPA 624.1 (2016)	
Semivolatiles			
Phenols – GC/FID	EPA 604 (1984)		
Benzidines –HPLC			EPA 605 (1984)
Phthalate Esters – GC/ECD	EPA 606 (1984)		
Nitrosamines – GC/NPD	EPA 607 (1984)		
Nitroaromatics & Isophorone – GC/FID/ECD	EPA 609 (1984)		
Polynuclear Aromatic Hydrocarbons (PAHs) – GC/FID or HPLC	EPA 610 (1984)		EPA 610 (1984)
Haloethers – GC/Hall	EPA 611 (1984)		
Chlorinated Hydrocarbons – GC/ECD	EPA 612 (1984)		
Base Neutrals & Acids –GC/MS PAHs (SIM)		EPA 625.1 (2016) EPA 625.1-RVE (2016) EPA 625.1 SIM (2016) EPA 625.1-RVE SIM (2016)	
SVO by Isotope –GC/MS		EPA 1625B (1984) EPA 1625C ³⁰ (1989) EPA 1653A (1997)	
Formaldehyde, Isobutyraldehyde, and Furfural by HPLC			EPA 1667A (1998)
Dioxins & Furans			
Tetra-Octa-Chlorinated Dioxins & Furans HRGC/HRMS		EPA 1613B (1994)	
2,3,7,8-Tetrachloridibenzo-p-Dioxin		EPA 613 (1984)	

T. Solid and Hazardous Waste Methodology:

Inorganic – Demand: Circle the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority’s certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Total Organic Carbon (TOC)	9060A (2004)		

Inorganic – Hazardous Waste Characteristics: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority’s certificate must reflect the appropriate certification for each parameter method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Corrosivity Towards steel PH (See Hydrogen-Ion Conc./Method 9040B Under Minerals)	1110A (2004)		
Dermal Corrosion	1120 (1996)		
EP Toxicity Test	1310B (2004)		
Ignitability Pensky Martens Setaflash	1010B (2018) 1020C (2018)		
Ignitability of Solids	1030 (2014)		
Paint Filter Liquids Test	9095B (2004)		
Liquid Release Test (LRT) Procedure	9096 (1994)		
Multiple Extraction Procedure	1320 (1986)		
SPLP – Synthetic Precipitation Leaching Proc. – Bottle Ext.	1312 ²⁵ (1994)		
SPLP – Synthetic Precipitation Leaching Proc. – Zero Head	1312 ²⁶ (1994)		
TCLP – Tox. Char. Leach. Proc. – Bottle Ext.	1311 ²⁵ (1992)		
TCLP – Tox. Char. Leach. Proc. – Zero Head	1311 ²⁶ (1992)		
Test Method for Oxidizing Solids	1040 (2007)		
Test Methods to Determine Substances Likely to Spontaneously Combust	1050 (2007)		

Inorganic – Trace Metal: Circle only the EPA-approved methodology for the digestion techniques that the laboratory is seeking certification to perform. IDOCs and MDLs are required for each digestion procedure employed.

Metals Digestion Techniques	Methodology ¹
	EPA
Acid Digestion of Waters for Total Recoverable or Dissolved Metals for Analysis by FLAA or ICP Spectroscopy	3005A (1992)
Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP Spectroscopy	3010A (1992)
Microwave Assisted Acid Digestion of Aqueous Samples and Extracts	3015A (2007)
Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by GFAA Spectroscopy	3020A (1992)
Acid Digestion of Sediments, Sludges, and Soils	3050B (1996)
Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oils	3051A (2007)
Hexavalent Chromium Digestion	3060A (1996)
Mercury Species Fractionation and Quantification by Microwave-Assisted Extraction, Selective solvent Extraction and/or solid Phase Extraction (2014)	3200 (2014)

T. Solid and Hazardous Waste Methodology:

Inorganic – Trace Metal: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	FLAA	GFAA	Hydride	ICP	ICP/MS	Colorimetric	Cold Vapor	Other
Aluminum	7000B (2007)			6010D (2018)	6020B (2014)			
Antimony	7000B (2007)	7010 (2007)	7062 (1994)	6010D (2018)	6020B (2014)			6800 (2014)
Arsenic		7010 (2007)	7061A (1992) 7062 (1994)	6010D (2018)	6020B (2014)			
Barium	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Beryllium	7000B (2007)	7010 (2007)		6010D (2018)	6020B ⁷ (2014)			
Boron				6010D (2018)				6800 (2014)
Cadmium	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Calcium	7000B (2007)			6010D (2018)	6020B (2014)			6800 (2014)
Chromium VI						7196A (1992)		7195 (1986) 7197 (1986) 7198 (1986) 7199 (1996)
Chromium	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Cobalt	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			
Copper	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Iron	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Lead	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Lithium	7000B (2007)			6010D (2018)				
Magnesium	7000B (2007)			6010D (2018)	6020B (2014)			6800 (2014)
Manganese	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			
Mercury				6010D (2018)	6020B (2014)		7470A (1994) 7471B (2007)	7473 (2007) 7474 (2007) 6800 (2014)
Molybdenum	7000B (2007)	7010 (2007)		6010D (2018)	6020B ⁷ (2014)			6800 (2014)
Nickel	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)			6800 (2014)
Osmium	7000B (2007)							
Phosphorus				6010D (2018)				
Potassium	7000B (2007)			6010D (2018)	6020B (2014)			6800 (2014)

T. Solid and Hazardous Waste Methodology

Inorganic – Trace Metal continued: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Selenium		7010 (2007)	7741A (1994) 7742 (1994)	6010D (2018)	6020B (2014)		6800 (2014)
Silica				6010D (2018)	6020B ⁷ (2014)		
Silver	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)		6800 (2014)
Sodium	7000B (2007)			6010D (2018)	6020B (2014)		
Strontium	7000B (2007)			6010D (2018)			6800 (2014)
Thallium	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)		6800 (2014)
Tin	7000B (2007)			6010D (2018)	6020B ⁷ (2014)		
Titanium				6010D (2018)	6020B ⁷ (2014)		
Vanadium	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)		6800 (2014)
Zinc	7000B (2007)	7010 (2007)		6010D (2018)	6020B (2014)		6800 (2014)

Inorganic – Trace Metal continued: .

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Field Portable X-Ray Fluorescence Spectrometry for the Determination of Elemental Concentrations in Soil and Sediment	6200 (2007)		

Inorganic – Mineral: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Chloride	9212 (1996) 9250 (1986) 9251 (1986) 9253 (1994) 9056A (2007) 6500 (2007)		
Fluoride	9214 (1996) 9056A (2007) 6500 (2007)		
Hydrogen-Ion Concentration (pH) (Corrosivity) Hydrogen-Ion Concentration (solid)	9040C (2004) 9045D (2004)		
Specific Conductance	9050A (1996)		
Sulfate	9035 (1986) 9036 (1986) 9038 (1986) 9056A (2007) 6500 (2007)		

T. Solid and Hazardous Waste Methodology

Inorganic – Miscellaneous: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Bomb Preparation Method	5050 (1994)		
Bromide			
Ion Chromatography	9056A (2007)		
Electrode	9211 (1996)		
Capillary Ion Electrophoresis	6500 (2007)		
Compatibility Test for Wastes & Membrane Liners	9090A (1992)		
Cyanide Distillation for Total and Amenable	9010C (2004)		
Cyanide			
Spectrophotometric, Automated	9012B (2004)		
Titrimetric & Manual Spectrophotometric ²⁷	9014 (2014)		
Electrode ²⁷	9213 (1996)		
Cyanide Amenable to Chlorination			
Spectrophotometric, Automated	9012B (2004)		
Titrimetric & Manual Spectrophotometric ²⁷	9014 (2014)		
Electrode ²⁷	9213 (1996)		
Cyanide Extraction for Solids and Oils	9013A (2014)		
Metal Cyanide Complexes by Anion Exchange Chromatography and UV Detection	9015 (2014)		
Extraction Proc. For Oily Wastes	1330A (1992)		
Extraction Organic Halides in Solids (EOX)	9023 (1996)		
Intrinsic Permeability	9100 (1986)		
Oil and Grease	9070A (1999) 9071B (1998)		
Phenolics, Total Recoverable			
Manual, Spectrophotometric	9065 (1986)		
Colorimetric, Automated	9066 (1986)		
Spectrophotometric, MBTH	9067 (1986)		
Purgeable Organic Halides (POX)	9021 (1992)		
Saturated Hydraulic Conductance	9100 (1986)		
Saturated Leachate Conductance	9100 (1986)		
Sulfides, Extractable	9031 (1992)		
Sulfides, Acid Soluble & Insoluble (Distillation)	9030B (1996)		
Sulfides, Acid Soluble & Insoluble			
Titrimetric ²⁷	9034 (1996)		
Electrode ²⁷	9215 (1996)		
Total Chlorine in New and Used Petroleum Products by X-Ray Fluorescence Spectrometry (XRF)	9075 (1994)		
Total Chlorine in New and Used Petroleum Products by OCM	9076 (1994)		
Total Chlorine in New and Used Petroleum Products (Field Test Kit Methods)	9077 (1994)		
Total Organic Halides (TOX)	9020B (1994)		
Determination of Water in Waste Materials by Karl Fischer Titration	9000 (2007)		
Determination of Water in Waste Materials by Quantitative Calcium Hydride Reaction	9001 (2007)		

T. Solid and Hazardous Waste Methodology

Inorganic – Nutrient: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Nitrate-Nitrogen	9210A (2007) 9056A (2007) 6500 (2007)		
Nitrite-Nitrogen	9056A (2007) 9216 (2007) 6500 (2007)		
Orthophosphate	9056A (2007) 6500 (2007)		
Phosphorus	6010D (2018)		

Microbiology: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter method circled.

Parameter	Methodology ¹		
	EPA	Standard Methods	Other
Fecal Coliform (MF)		SM 9222 D-2015	
Fecal Coliform (MPN)		SM 9221 C,E-2014	
Fecal Streptococci (MF)		SM 9230 C-2013	
Fecal Streptococci (MPN)		SM 9230 B-2013	
Total Coliform (MPN)	9131 (1986)		
Total Coliform (MF)	9132 (1986)		

T. Solid and Hazardous Waste Methodology:

Organic Analyses: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled. **Include a list of requested analytes for each analytical and sample preparation method.**

Parameter	EPA ¹ Methodology	
	Analytical Method	Extraction/Preparation Method ²⁸
Pesticides and PCBs		
Organochlorine Pesticides by GC: Capillary Column	8081B (2007) Specify by extraction method if RVE²⁸ is being requested.	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3562 (2007) 3580A (1992)
Compound-Independent Elemental Quantitation of Pesticides by GC/AED (Atomic Emission Detection)	8085 (2007)	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3580A (1992)
Organophosphorus Pesticides by GC: Capillary Column	8141B (2007) Specify by extraction method if RVE²⁸ is being requested.	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3580A (1992)
Polychlorinated Biphenyls by GC ¹⁵	8082A (2007) Specify by extraction method if RVE²⁸ is being requested.	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550B (1996) 3550C (2007) 3562 (2007) 3580A (1992)
Herbicides		
Chlorophenoxy Acid Herbicides by GC	8151A (1996)	

T. Solid and Hazardous Waste Methodology:

Organic Analyses continued: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled. **Include a list of requested analytes for each analytical and sample preparation method.**

Parameter	EPA ¹ Methodology	
Volatiles		
Nonhalogenated Volatile Organics	8015C (2007)	5021A (2014) 5030B (1996) 5031 (1996) 5032 (1996) 5035 (1996) 3585 (1996)
TPH – Low Boiling Point (GRO)	8015C (GRO) (2007)	5030B (1996) 5035 (1996) 3585 (1996)
Volatiles by GC/Hall/PID	8021B (2014)	5021A (2014) 5030B (1996) 5032 (1996) 5035 (1996) 3585 (1996)
Volatile Organics by GC/MS	8260D (2018)	5021A (2014) 5030B (1996) 5031 (1996) 5032 (1996) 5035 (1996) 3585 (1996)
Volatile Organics – Oxygenates GC/MS	8260D Oxy (2018)	5030B (1996)
Volatile Organics – (SIM) 1,4-Dioxane	8260D SIM (2018)	5030B (1996)
Volatile Organics by Vacuum Distillation in Combination with GC/MS (VD/GC/MS)	8261 (2007)	
Semivolatiles	Analytical Method	Extraction/Preparation Method ²⁸
Acetonitrile by GC-NPD	8033 (1996)	
Acrylamide, Acrylonitrile, & Acrolein by HPLC	8316 (1994)	
Acrylamide by GC	8032A (1996)	
Acrylonitrile by GC	8031 (1994)	
Base Neutrals & Acids by GC/MS (Refer to Polynuclear Aromatic Hydrocarbons for EPA 8270D SIM)	8270E (2018) Specify by extraction method if RVE²⁸ is being requested.	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3561 (1996) 3580A (1992)

T. Solid and Hazardous Waste Methodology:

Organic Analyses continued: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled. **Include a list of requested analytes for each analytical and sample preparation method.**

Parameter	EPA ¹ Methodology	
	Analytical Method	Extraction/Preparation Method ²⁸
Semivolatiles		
Base Neutrals & Acids by GC/FT-IR	8410 (2014)	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3560 (1996) 3561 (1996) 3580A (1992)
Carbonyl Compounds by HPLC	8315A (1996)	
EDB & DBCP by Microextraction/GC	8011 (1992)	
Extractable Nonvolatiles by HPLC/TS/MS	8321B (2007)	
Extractable Nonvolatiles by HPLC/PB/MS	8325 (1996)	BASED ON ANALYTE
Haloethers by GC	8111 (2014)	BASED ON ANALYTE
N-Methylcarbamates	8318A (2007)	3510C (1996) 3520C (1996) 3540C (1996) 3541 (1994) 3550C (2007)
Nitroaromatics & Cyclic Ketones by GC	8091 (1996)	
Nitroglycerine by HPLC	8332 (1996)	
Nitroaromatics, Nitramines by HPLC	8330A (2007)	

T. Solid and Hazardous Waste Methodology:

Organic Analyses continued: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled. **Include a list of requested analytes for each analytical and sample preparation method.**

Parameter	EPA ¹ Methodology	
	Analytical Method	Extraction/Preparation Method ²⁸
Semivolatiles		
Nitrosamines by GC	8070A (1996)	3510C (1996) 3520C (1996) 3540C (1996) 3541 (1994) 3545A (2007) 3550C (2007)
Explosives by GC	8095 (2007)	3535A (2007) 8330A-EXT (Soil extraction)
PAHs & PCBs by TE/GC/MS	8275A (1996)	
Pentachlorophenol (PCP) by UV-Induced Colorimetry	8540 (2007)	
Phenols by GC	8041A (2007)	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3580A (1992)
Phthalate Esters by GC: Capillary Column	8061A (1996)	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3580A (1992)
Polynuclear Aromatic Hydrocarbons by GC/FID	8100 (1986)	3510C (1996) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3561 (1996) 3580A (1992)
Polynuclear Aromatic Hydrocarbons by HPLC	8310 (1986)	3510C (1996) 3511 (2014) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3561 (1996) 3580A (1992)

T. Solid and Hazardous Waste Methodology:

Organic Analyses continued: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled. **Include a list of requested analytes for each analytical and sample preparation method.**

Parameter	EPA ¹ Methodology	
	Analytical Method	Extraction/Preparation Method ²⁸
Semivolatiles		
Polynuclear Aromatic Hydrocarbons (SIM)	8270E (SIM) (2018) Specify by extraction method if RVE²⁸ is being requested.	3510C (1996) 3511 (2014) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3561 (1996) 3580A (1992)
Tetrazine Reverse Phase by HPLC	8331 (1994)	
TPH – High Boiling Point (DRO)	8015C (DRO) (2007)	3510C (1996) 3511 (2014) 3520C (1996) 3535A (2007) 3540C (1996) 3541 (1994) 3545A (2007) 3546 (2007) 3550C (2007) 3560 (1996) 3561 (1996) 3580A (1992)
Dioxin & Dibenzofurans		
PCDDs/PCDFs by HRGC/LRMS	8280B (2007)	
PCDDs/PCDFs by HRGC/HRMS	8290A (2007)	

Infrared Methods		
Fourier Transform Infrared by GC/FT-IR	8410 (2014)	
Bis(2-chloroethyl) Ether & Hydrolysis by GC/FT-IR	8430 (2014)	
Total, Recoverable Petroleum Hydrocarbons	8440 (1996)	
Immunoassay Methods		
Immunoassay	4000 (1996)	
Pentachlorophenol by Immunoassay	4010A (1996)	
2,4-Dichlorophenoxyacetic Acid by Immunoassay	4015 (1996)	
Polychlorinated Biphenyls by Immunoassay	4020 (1996)	
Polychlorinated Dibenzodioxins and Dibenzofurans (PCDD/Fs) by Immunoassay (2014)	4025 (2014)	

T. Solid and Hazardous Waste Methodology:

Organic Analyses continued: Circle only the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each method and organic contaminant circled.

Parameter	EPA ¹ Methodology	Extraction/Preparation Method
Immunoassay Methods		
Soil Screening for TPH by Immunoassay	4030 (1996)	
Soil Screening for PAHs by Immunoassay	4035 (1996)	
Soil Screening for Toxaphene by Immunoassay	4040 (1996)	
Soil Screening for Chlordane by Immunoassay	4041 (1996)	
Soil Screening for DDT by Immunoassay	4042 (1996)	
TNT Explosives in Soil by Immunoassay	4050 (1996)	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	4051 (1996)	
Polychlorinated Dibenzo-p-Dioxins and Furans (PCDD/Fs) by Aryl Hydrocarbon Receptor PCR Assay (2014)	4430 (2014)	
Toxic Equivalent (TEQS) Determination for Dioxin-Like Chemical Activity with CALUX® Bioassay (2014)	4435 (2014)	
Triazine Herbicides as Atrazine in Water	4670 (1996)	
Miscellaneous Screening Methods		
Headspace	5021A (2014)	
Hexadecane Ext. & Screening of Purgeables	3820 (1986)	
Trinitrotoluene (TNT) in Soil (Color.)	8515 (1996)	
Polychlorinated Biphenyls in Soil	9078 (1996)	
Polychlorinated Biphenyls in Trans. Oil	9079 (1996)	
Volatile Organics in Soil	3815 (2007)	
Extracts of Environmental Samples for Planar Organic Compounds (PAHs, PCBs, PCDDs/PCDFs) by a Reporter Gene on a Human Cell Line	4425 (2007)	
Colorimetric Screening for RDX and HMX in Soil	8510 (2007)	
Total Volatile Organic Halides in Water	8535 (2007)	

U. Shellfish Waters and Meats Methodology:

Microbiology: Circle on the EPA-approved methodology that the laboratory is seeking certification to perform. Out-of-state laboratories: The State Certifying Authority's certificate must reflect the appropriate certification for each parameter and method circled.

Parameter	Methodology
Fecal Coliform(MPN)- Waters	A-1 Medium AOAC-Modified A-1 Test for Seawaters ¹⁹
Fecal Coliform(MPN) - Meats	APHA 4 th Ed.1970-Recommended APHA Procedures for Seawater & Shellfish ²¹
Total Coliform(MPN) - Meats	APHA 4 th Ed.1970-Recommended APHA Procedures for Seawater & Shellfish ²¹

V. Statement of Validation

I have read South Carolina State Regulation 61-81, titled State Environmental Laboratory Certification. In accordance with that Regulation, as the designated Laboratory Director, I submit this completed Application to the State Environmental Laboratory Certification Program. I attest that the information on pages 1-28 is true, accurate and complete to the best of my knowledge. I agree to notify the State Environmental Laboratory Certification Program within 15 days of changes in laboratory name, ownership, laboratory director, location, personnel, facilities, equipment, methodology, and/or record keeping practices, or any other factors which might impair the ability of the laboratory to perform in accordance with the terms of certification documented in Regulation 61-81.

With the attached application(s), I hereby apply for certification in accordance with the terms listed in South Carolina Environmental Laboratory Certification Regulation 61-81.

Name of Laboratory Director (type or print)

Signature of Laboratory Director

Date

W. Designation of Laboratory Director

THIS IS A SAMPLE FORM.

YOUR LABORATORY'S LETTERHEAD

Director, Office of Environmental Laboratory Certification
S.C. Department of Health and Environmental Control
2600 Bull St.
Columbia, South Carolina 29201

Re: Laboratory ID# _____ (*If Laboratory is currently certified*)

Dear Director:

In accordance with South Carolina State Environmental Laboratory Certification Regulation 61-81, Section D(12), as proprietor of _____, I designate _____ as the Laboratory Director. He/she has the responsibility of supervising the operations of the laboratory and ensuring the quality and accuracy of the data reported. If there is a change in the Laboratory Director, I agree to notify the Office of Environmental Laboratory Certification within 15 days of this change.

(Proprietor's Signature and Date)

(Type or Print Name)

(Type or Print Title)

Application Footnotes

1 **Safe Drinking Water Act:**

For the approved methodology for Safe Drinking Water Act compliance, refer to 40 CFR Parts 141 and 143. When using a Standard Methods reference include year approved by Standard Methods Committee. The reference method format for the 21st and 22nd Editions of Standard Methods will follow the year approved format. For example, Standard Methods 9223B in the 22nd Edition of Standard Methods will be referenced as SM 9223B-2004.

Clean Water Act:

For the approved methodology for Clean Water Act compliance, refer to 40 CFR Part 136, "Guidelines Establishing Test Procedures for the Analysis of Pollutants under the Clean Water Act."

Also refer to 40 CFR Part 403, "General Pretreatment Regulations for Existing and New Sources for Pollution," 40 CFR Part 423, "Steam Electric Power Generating Point Source Category," 40 CFR Part 430, "The Pulp, Paper, and Paperboard Point Source Category," 40 CFR Part 439, "Pharmaceutical Manufacturing Point Source category," 40 CFR Part 455, "Pesticide Chemicals," 40 CFR Part 465, "Coil Coating Point Source Category," and 40 CFR Part 503, "Standards for the Use or Disposal of Sewage Sludge."

Solid and Hazardous Waste Testing:

For Solid and Hazardous Waste testing, the EPA approved method reference is SW-846, Third Edition of "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", amended by Updates I, II, III, IIA, IIB, III, IIIA, IIIB IVA, IVB, and V.

Also refer to 40 CFR Parts 260, 261, 264, 265, 268, and 270, "Hazardous Waste Management System; Testing and Monitoring Activities".

- 2 MI agar may also be used. Preparation and use of MI agar is set forth in the article "New Medium for the Simultaneous Detection of Total Coliform and *Escherichia coli* in Water" by Brenner, K.P., et. al., 1993, Appl. Environ. Microbiol. 59:3534-3544.
- 3 Colilert is also known as the ONPG-MUG test.
- 4 A description of the Colisure Test Feb. 28, 1994 can be obtained from IDEXX Laboratories, Inc. One IDEXX Drive, 1 Westbrook, Maine 04092. Phone: 800-321-0207. The website is www.idexx.com.
- 5 Luminescence Dissolved Oxygen (LDO) Methods.
- 6 A description of the m-ColiBlue24® Test, Aug. 17, 1999 is available from the Hach Company.
- 7 This metal is not listed in EPA 6020B, but is approved under 40CFR Part 136 by EPA 200.8, which is considered an equivalent method to EPA 6020B.
- 8 This method is not approved for compliance samples for the disinfection by-product rule.
- 9 National Council for the Paper Industry for Air and Stream Improvement, Technical Bulletin 803, May 2000.
- 10 Reserved
- 11 Under the disinfection by-product rule, the amperometric titration or spectrophotometry may be used for routine daily monitoring of chlorite at the entrance to the distribution system, as prescribed in §141.132(b)(2)(i)(A). Ion chromatography must be used for routine monthly monitoring of chlorite in the distribution system as prescribed in §141.132(b)(2)(i)(B) and (b)(2)(ii).
- 12-13 Reserved
- 14 PCBs are quantitatively identified as Arochlors and measured for compliance purposes as decachlorobiphenyl.
- 15 Method detection limit studies must be submitted for all Arochlors (PCBs).
- 16 Users of Method 505 may have more difficulty in achieving the required detection limits than users of Methods 508.1, 525.2 or 508.
- 17 Enterolert, IDEXX Laboratories, Inc.
- 18 Sample must be filtered within 15 minutes of collection and analyzed within 48 hours.
- 19 Association of Official Analytical Chemists (AOAC). 2000. *Official Methods of Analyses of the Association of Official Analytical Chemists*. 17th Edition, Chapter 17.305, page 22. AOAC, Arlington, VA.

Application Footnotes (Cont.)

- 20 For the enumeration of fecal coliforms in wastewater effluent. The incubation temperature is 44.5±0.2°C and a water bath incubator is used.
- 21 American Public Health Association (APHA). 1970. *Recommended Procedures for the Examination of Sea Water and Shellfish*, 4thEdition. APHA, Washington, D.C.
- 22 "TECTA™ EC/TC Medium and TECTA™ Instrument: A Presence/Absence Method for the Simultaneous Detection of Total Coliforms and Escherichia coli (*E. coli*) in Drinking Water," version 1.0, May 2014. Available from IDEXX, Inc.
- 23 Reserved
- 24 Recommended for enumeration of target organism in sewage sludge.
- 25 Must be accompanied with the applicable metals and organic method certification.
- 26 Must be accompanied with the applicable volatiles certification.
- 27 Must be accompanied with the distillation procedure.
- 28 The extraction or sample preparation method needed will be based on the matrix and analytes of interest. Document reduced volume extraction by writing in "RVE" beside the applicable extraction technique.
- 29 Must accompany the completed application form.
- 30 EPA Method 1624C and 1625C are for use with pharmaceutical effluents.
- 31 If total cyanide is greater than 0.2mg/L, then free cyanide must be determined using the amenable cyanide method or ion selective electrode method.
- 32 Method OIA-1677-09, Available Cyanide by Ligand Exchange and Flow Injection Analysis (FIA). 2010. OI Analytical.
- 33 Distillation and analysis by an approved total cyanide method is required following the chlorination and dechlorination treatments.
- 34 QuikChem Method 10-204-00-1-X, Digestion and Distillation of Total Cyanide in Drinking and Wastewaters using MICRO DIST and Determination of Cyanide by Flow Injection Analysis. Revision 2.2, March 2005. Lachat Instruments.
- 35 Must be certified for applicable residue method (TSS, TDS, TS).
- 36 A description of the SimPlate method, "IDEXX SimPlate™ HPC Test Method for Heterotrophs in Water", November 2000 can be obtained from IDEXX Laboratories, Inc., One IDEXX Drive, Westbrook, Maine 04092. Phone: 800-321-0207. The website is www.idexx.com.
- 37 The time from sample collection to initiation of analysis may not exceed 8 hours. Systems must hold samples below 10°C during transit.
- 38-39 Reserved
- 40 Modified Colitag®, ATP D05-0035—"Modified Colitag™ Test Method for the Simultaneous Detection of *E. coli* and other Total Coliforms in Water," August 28, 2009.
- 41 *In Vitro* Determination of Chlorophyll *a* and Pheophytin *a* in Marine and Freshwater Algae by Fluorescence," Revision 1.2, September 1997. Nation Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268.
- 42 Sample preparation for fecal coliform analysis in biosolids samples is addressed in the EPA publication "Environmental Regulations and Technology Control of Pathogens and Vector Attraction in Sewage Sludge" EPA document EPA/625/R-92/013. The current version of this document is July 2003. Appendix F addresses the proper techniques and dilutions for preparing biosolids samples for analysis of fecal coliforms using membrane filtration or the Most Probable Number analytical techniques. This method not required if using EPA Methods 1680 or 1681.
- 43 The Gamma Emitters category includes Barium 133, Cesium 134, Cesium 137, Cobalt 60, and Zinc 65.
- 44 This method is not approved under 40CFR Part 136. It is approved only for Part 503 biosolids.
- 45 Ion chromatography & post column reaction or IC/ICP-MS must be used for monitoring of bromate for purposes of demonstrating eligibility of reduced monitoring, as prescribed in §141.132(b)(3)(ii).

Application Footnotes (Cont.)

- 46 Samples must be preserved at the time of sampling with 50mg ethylenediamine (EDA)/L of sample and must be analyzed within 28 days.
- 47 Inorganic carbon must be removed from the samples prior to analysis. TOC samples must not be filtered prior to analysis. TOC samples must be acidified at the time of sample collection to achieve pH less than or equal to 2 with minimal addition of the acid specified in the method or by the instrument manufacturer. Acidified TOC samples must be analyzed within 28 days.
- 48 DOC samples must be filtered through 0.45- μ m pore-diameter filter as soon as practical after sampling, not to exceed 48 hours. After filtration, DOC samples must be acidified to a pH of less than or equal to 2 with minimal addition of acid specified in the method or by the instrument manufacturer. Acidified DOC samples must be analyzed within 28 days of sample collection. Inorganic carbon must be removed from the samples prior to analysis. Water passed through the filter prior to filtration of the sample must serve as the filtered blank. This filtered blank must be analyzed using procedures identical to those used for analysis of the samples and must meet the following criteria: DOC<0.5mg/L.
- 49 Prior to analysis, UV₂₅₄ samples must be filtered through a 0.45 μ m pore-diameter filter. The pH of the UV₂₅₄ samples may not be adjusted. Samples must be analyzed as soon as practical after sampling, not to exceed 48 hours.
- 50 Hach Method 10290 (2019) for Peracetic Acid and Hydrogen Peroxide are not approved under 40 CFR 136, but are approved for SC NPDES permit holders if listed on the permit.