

ATTACHMENT I

WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

List of Certified Parameters
for

**ENVIRONMENTAL SERVICE LABORATORIES,
INC.
INDIANA, PENNSYLVANIA**

PARAMETERS CERTIFIED

NONPOTABLE WATER INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Acidity	SM2310 B-11	Titrimetric
Alkalinity	SM2320 B-11	Titrimetric
Ammonia	SM4500-NH3 B-11	Distillation
Ammonia	SM4500-NH3 D-11	ISE
Bromide	EPA300.0 Rev 2.1-1993	IC
Carbon, Total Organic (TOC)	SM5310 C-14	Oxidation
Chloride	EPA300.0 Rev 2.1-1993	IC
Chromium VI, Dissolved	SW7196A	Spectrophotometric
Conductance, Specific	SM2510 B-11	Probe
Cyanide, Total	SM4500-CN C-16	Distillation
Cyanide, Total	SM4500-CN E-11	Spectrophotometric
Cyanide, Total	SW9010C	Distillation
Fluoride	EPA300.0 Rev 2.1-1993	IC
Hardness, Calcium	SM2340 B-11	Calculation
Hardness, Total	SM2340 B-11	Calculation
Nitrate	EPA300.0 Rev 2.1-1993	IC
Nitrate	SM4500-NO3 D-16	ISE
Nitrite	EPA300.0 Rev 2.1-1993	IC
Nitrite	SM4500-NO2 B-11	Spectrophotometric
Nitrite	SM4500-NO3 E-16	Spectrophotometric
Nitrogen, Total Kjeldahl (TKN)	EPA351.2 Rev 2.0-1993	Colorimetric
Oil & Grease	EPA1664 B	Gravimetric
Oxygen Demand, Carbonaceous Biochemical (CBOD)	SM5210 B-16	Probe
Petroleum Hydrocarbons, Total	EPA1664 B	Gravimetric (SGT)
Phosphorus, Ortho	SM4500-P E-11	Spectrophotometric
Phosphorus, Total	SM4500-P B(5)-11	Digestion
Phosphorus, Total	SM4500-P E-11	Spectrophotometric
Solids, Dissolved	SM2540 C-15	Gravimetric
Solids, Settleable	SM2540 F-15	Imhoff Cone

Solids, Suspended	SM2540 D-15	Gravimetric
Solids, Total	SM2540 B-15	Gravimetric
Solids, Volatile	SM2540 E-15	Gravimetric
Sulfate	ASTM D516-16	Turbidimetric
Sulfate	EPA300.0 Rev 2.1-1993	IC
Sulfide	SM4500-S F-11	Titrimetric
Surfactants (MBAS)	SM5540 C-11	Spectrophotometric
Turbidity	SM2130 B-11	Turbidimetric
Ammonia	ASTM D6919-17	IC

NONPOTABLE WATER TRACE METALS

<u>METAL</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Aluminum	EPA200.7 Rev 4.4-1994	ICP
Antimony	EPA200.7 Rev 4.4-1994	ICP
Arsenic	EPA200.7 Rev 4.4-1994	ICP
Barium	EPA200.7 Rev 4.4-1994	ICP
Beryllium	EPA200.7 Rev 4.4-1994	ICP
Boron	EPA200.7 Rev 4.4-1994	ICP
Cadmium	EPA200.7 Rev 4.4-1994	ICP
Calcium	EPA200.7 Rev 4.4-1994	ICP
Chromium	EPA200.7 Rev 4.4-1994	ICP
Cobalt	EPA200.7 Rev 4.4-1994	ICP
Copper	EPA200.7 Rev 4.4-1994	ICP
Iron	EPA200.7 Rev 4.4-1994	ICP
Lead	EPA200.7 Rev 4.4-1994	ICP
Lithium	EPA200.7 Rev 4.4-1994	ICP
Magnesium	EPA200.7 Rev 4.4-1994	ICP
Manganese	EPA200.7 Rev 4.4-1994	ICP
Mercury	EPA245.1 Rev 3.0-1994	CVAA
Molybdenum	EPA200.7 Rev 4.4-1994	ICP
Nickel	EPA200.7 Rev 4.4-1994	ICP
Potassium	EPA200.7 Rev 4.4-1994	ICP
Selenium	EPA200.7 Rev 4.4-1994	ICP
Silicon	EPA200.7 Rev 4.4-1994	ICP
Silver	EPA200.7 Rev 4.4-1994	ICP
Sodium	EPA200.7 Rev 4.4-1994	ICP
Strontium	EPA200.7 Rev 4.4-1994	ICP
Thallium	EPA200.7 Rev 4.4-1994	ICP
Titanium	EPA200.7 Rev 4.4-1994	ICP
Vanadium	EPA200.7 Rev 4.4-1994	ICP
Zinc	EPA200.7 Rev 4.4-1994	ICP

NONPOTABLE WATER MICROBIOLOGY

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Coliform, Fecal (MPN)	Colilert 18	Multiple Well
E. Coli (MPN)	SM9223 B-16	Multiple Well
Heterotrophic Plate Count (HPC)	SM9215 B-04	Pour Plate

NONPOTABLE WATER VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Volatile Organic Compounds	SW8260D	GC/MS

NONPOTABLE WATER EXTRACTABLE AND SEMI-VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Glycols	SW8015C	GC/FID

HAZARDOUS WASTE CHARACTERISTICS

<u>PROCEDURE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
SPLP- Organics	SW1312	Extraction
TCLP- Organics	SW1311	Extraction

SOLID AND CHEMICAL INORGANIC NONMETALS

<u>ANALYTE</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Cyanide, Total	SW9014	Spectrophotometric
pH (Hydrogen Ion)	SW9045D	Electrode
Solids, Total, Fixed, & Volatile	SM2540 G-15	Gravimetric

SOLID AND CHEMICAL VOLATILE ORGANIC CHEMICALS

<u>GROUP</u>	<u>METHOD</u>	<u>TECHNOLOGY</u>
Volatile Organic Compounds	SW8260D	GC/MS

This laboratory may test **ONLY** for those environmental parameters listed above for compliance reporting purposes. All testing must be by the test method cited in the current application for certification.

This Certification Expires October 31, 2023.

Certificate No 392

_____ Issued on September 14, 2022

Kelly Mayhew
Auditor

This certified parameter list supersedes all previously issued parameter lists for this certificate number.