



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 MANCHESTER ENVIRONMENTAL LABORATORY

7411 Beach Drive East
Port Orchard, WA 98366
Dana Walker Phone: (360) 871-8704

ENVIRONMENTAL

Valid To: August 31, 2022

Certificate Number: 5027.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with ISO IEC 17025:2017 and the 2009 TNI Environmental Testing Laboratory Standard), accreditation is granted to this laboratory and mobile laboratory to perform recognized "ENVIRONMENTAL" methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies: Colilert, CVAA, CVFAS, Electrodes, Flashpoint, GC, GC/MS, GC/MS-SIM, Gravimetric, ICP, ICP/MS, LC/MS/MS, Leaching, MF, MPN, PLM, UV

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
<u>Chemistry</u>			
Ammonia	-----	EPA 350.1	-----
Asbestos	-----	-----	EPA 600/R-93/116
Chloride	EPA 300.0	EPA 300.0	-----
Flashpoint	-----	-----	ASTM D3278-78
Fluoride	EPA 300.0	EPA 300.0	-----
Hardness (Total as CaCO ₃)	-----	SM 2340 B-11	-----
Kjeldahl Nitrogen (Total)	-----	EPA 351.2	-----
Nitrate	EPA 300.0	-----	-----
Nitrate - Nitrite	EPA 353.2	EPA 353.2	-----
Oil & Grease - HEM-SPE	-----	EPA 1664B	-----
pH (Corrosivity)	-----	SW-846 9040C	-----
Phosphorus (Total)	-----	EPA 365.1	-----
Residue - Filterable (TDS)	SM 2540 C-11	SM 2540 C-11	-----
Residue - Nonfilterable (TSS)	-----	USGS I-3765-85	-----
Sulfate	EPA 300.0	EPA 300.0	-----
Water Content	-----	-----	SW-846 9000
<u>Extractable Organics</u>			
Anatoxin - a	EPA 545	EPA 545	-----
Cylindrospermopsin	EPA 545	EPA 545	-----

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
Acenaphthene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Acenaphthylene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Anthracene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Benzo(a)anthracene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Benzo(a)pyrene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Benzo(b)fluoranthene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Benzo(ghi)perylene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Benzo(k)fluoranthene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Bis (2-chloroethoxy) methane	-----	SW-846 8270E	SW-846 8270E
Bis (2-chloroethyl) ether	-----	SW-846 8270E	SW-846 8270E
Bis (2-ethylhexyl) phthalate	-----	SW-846 8270E	SW-846 8270E
Bis (2-chloroisopropyl) ether 2,2'-oxybis(1-chloropropane)	-----	SW-846 8270E	SW-846 8270E
Bromophenyl-phenyl ether (4-)	-----	SW-846 8270E	SW-846 8270E
Butylbenzylphthalate	-----	SW-846 8270E	SW-846 8270E
Carbazole	-----	SW-846 8270E	SW-846 8270E
Chloroaniline (4-)	-----	SW-846 8270E	SW-846 8270E
Chloronaphthalene (2-)	-----	SW-846 8270E	SW-846 8270E
Chlorophenol (2-)	-----	SW-846 8270E	SW-846 8270E
Chlorophenyl-phenyl ether (4-)	-----	SW-846 8270E	SW-846 8270E
Chrysene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Dibenzo(a,h)anthracene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Dibenzofuran	-----	SW-846 8270E	SW-846 8270E
Dichlorobenzidine (3,3'-)	-----	SW-846 8270E	SW-846 8270E
Dichlorophenol (2,4-)	-----	SW-846 8270E	SW-846 8270E
Diethyl phthalate	-----	SW-846 8270E	SW-846 8270E
Dimethyl phthalate	-----	SW-846 8270E	SW-846 8270E
Dimethylphenol (2,4-)	-----	SW-846 8270E	SW-846 8270E
Di-n-butyl phthalate	-----	SW-846 8270E	SW-846 8270E
Dinitrophenol (2,4-)	-----	SW-846 8270E	SW-846 8270E
Dinitrophenol (2-methyl-4,6-)	-----	SW-846 8270E	SW-846 8270E
Dinitrotoluene (2,4-)	-----	SW-846 8270E	SW-846 8270E
Dinitrotoluene (2,6-)	-----	SW-846 8270E	SW-846 8270E
Di-n-octyl phthalate	-----	SW-846 8270E	SW-846 8270E
Fluoranthene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Fluorene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Hexachlorobenzene	-----	SW-846 8270E	SW-846 8270E

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
Hexachlorobutadiene (1,3-)	-----	SW-846 8270E	SW-846 8270E
Hexachlorocyclopentadiene	-----	SW-846 8270E	SW-846 8270E
Hexachloroethane	-----	SW-846 8270E	SW-846 8270E
Indeno(1,2,3-cd) pyrene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Isophorone	-----	SW-846 8270E	SW-846 8270E
Methyl phenol (4-chloro-3-)	-----	SW-846 8270E	SW-846 8270E
Methylnaphthalene (2-)	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Methylphenol (2-)	-----	SW-846 8270E	SW-846 8270E
Methylphenol (4-)	-----	SW-846 8270E	SW-846 8270E
Naphthalene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Nitroaniline (2-)	-----	SW-846 8270E	SW-846 8270E
Nitroaniline (3-)	-----	SW-846 8270E	SW-846 8270E
Nitroaniline (4-)	-----	SW-846 8270E	SW-846 8270E
Nitrobenzene	-----	SW-846 8270E	SW-846 8270E
Nitrophenol (2-)	-----	SW-846 8270E	SW-846 8270E
Nitrophenol (4-)	-----	SW-846 8270E	SW-846 8270E
Nitroso-di-n-propylamine (n-)	-----	SW-846 8270E	SW-846 8270E
Nitrosodiphenylamine (n-)	-----	SW-846 8270E	SW-846 8270E
Pentachlorophenol	-----	SW-846 8041A SW-846 8270E	SW-846 8270E
Phenanthrene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Phenol	-----	SW-846 8270E	SW-846 8270E
Pyrene	-----	SW-846 8270E SW-846 8270E-SIM	SW-846 8270E
Tetrachlorobenzene (1,2,4,5-)	-----	SW-846 8270E	SW-846 8270E
Tetrachlorophenol (2,3,4,6-)	-----	SW-846 8270E	SW-846 8270E
Trichlorobenzene (1,2,4-)	-----	SW-846 8270E	SW-846 8270E
Trichlorophenol (2,4,5-)	-----	SW-846 8270E	SW-846 8270E
Trichlorophenol (2,4,6-)	-----	SW-846 8270E	SW-846 8270E
<u>PCBs</u>			
PCB 1016	-----	-----	SW-846 8082A
PCB 1221	-----	-----	SW-846 8082A
PCB 1232	-----	-----	SW-846 8082A
PCB 1242	-----	-----	SW-846 8082A
PCB 1248	-----	-----	SW-846 8082A
PCB 1254	-----	-----	SW-846 8082A
PCB 1260	-----	-----	SW-846 8082A
<u>Metals</u>			
Aluminum	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	SW-846 6010D SW-846 6020B

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
Antimony	EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Arsenic	EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Barium	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Beryllium	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Cadmium	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Calcium	-----	EPA 200.7 SW-846 6010D	EPA 200.7 SW-846 6010D
Chromium	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Cobalt	-----	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Copper	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Iron	EPA 200.7	EPA 200.7 SW-846 6010D	EPA 200.7 SW-846 6010D
Lead	EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Magnesium	-----	EPA 200.7 SW-846 6010D	EPA 200.7 SW-846 6010D
Manganese	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Mercury	EPA 245.1	EPA 245.1 EPA 1631E	SW-846 7471B
Methyl Mercury	-----	EPA 1630	-----

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
Nickel	-----	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Potassium	-----	EPA 200.7 SW-846 6010D	EPA 200.7 SW-846 6010D
Selenium	EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Silver	-----	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Sodium	-----	EPA 200.7 SW-846 6010D	EPA 200.7 SW-846 6010D
Thallium	EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Vanadium	-----	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
Zinc	EPA 200.7 EPA 200.8	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B	EPA 200.7 EPA 200.8 SW-846 6010D SW-846 6020B
<u>Per- and Polyfluoroalkyl Substances</u>			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	EPA 533	-----	-----
1H,1H,2H,2H-Perfluorodecane sulfonic acid (8:2FTS)	EPA 533	-----	-----
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2FTS)	EPA 533	-----	-----
1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2FTS)	EPA 533	-----	-----
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA 533	-----	-----
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	EPA 533	-----	-----
Perfluoro-4-methoxybutanoic acid (PFMBA)	EPA 533	-----	-----
Perfluorobutanesulfonic acid (PFBS)	EPA 533	-----	-----
Perfluoroheptanesulfonic acid (PFHpS)	EPA 533	-----	-----

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
Perfluoroheptanoic acid (PFHpA)	EPA 533	-----	-----
Perfluorohexanesulfonic acid (PFHxS)	EPA 533	-----	-----
Perfluorohexanoic acid (PFHxA)	EPA 533	-----	-----
Perfluorooctanesulfonic acid (PFOS)	EPA 533	-----	-----
Perfluorooctanoic acid (PFOA)	EPA 533	-----	-----
Perfluoropentanesulfonic acid (PFPeS)	EPA 533	-----	-----
Perfluoropentanoic acid (PFPeA)	EPA 533	-----	-----
Perfluoroundecanoic acid (PFUnA)	EPA 533	-----	-----
<u>Volatile Organics</u>			
Acetone	-----	SW-846 8260D	-----
Acrylonitrile	-----	SW-846 8260D	-----
Benzene	-----	SW-846 8260D	-----
Bromochloromethane	-----	SW-846 8260D	-----
Bromodichloromethane	-----	SW-846 8260D	-----
Bromoform	-----	SW-846 8260D	-----
Bromomethane	-----	SW-846 8260D	-----
Butanone (2-) (MEK)	-----	SW-846 8260D	-----
Butylbenzene (n-)	-----	SW-846 8260D	-----
Butylbenzene (sec-)	-----	SW-846 8260D	-----
Carbon Disulfide	-----	SW-846 8260D	-----
Carbon Tetrachloride	-----	SW-846 8260D	-----
Chlorobenzene	-----	SW-846 8260D	-----
Chloroethane	-----	SW-846 8260D	-----
Chloroform	-----	SW-846 8260D	-----
Chloromethane	-----	SW-846 8260D	-----
Dibromo-3-chloropropane (1,2-)	-----	SW-846 8260D	-----
Dibromochloromethane	-----	SW-846 8260D	-----
Dibromoethane (1,2-) (EDB)	-----	SW-846 8260D	-----
Dibromomethane	-----	SW-846 8260D	-----
Dichlorobenzene (1,2-)	-----	SW-846 8260D	-----
Dichlorobenzene (1,3-)	-----	SW-846 8260D	-----
Dichlorobenzene (1,4-)	-----	SW-846 8260D	-----
Dichlorodifluoromethane	-----	SW-846 8260D	-----
Dichloroethane (1,1-)	-----	SW-846 8260D	-----
Dichloroethane (1,2-)	-----	SW-846 8260D	-----
Dichloroethene (1,1-)	-----	SW-846 8260D	-----
Dichloroethene (cis-1,2-)	-----	SW-846 8260D	-----
Dichloroethene (trans-1,2-)	-----	SW-846 8260D	-----
Dichloropropane (1,2-)	-----	SW-846 8260D	-----
Dichloropropene (cis-1,3-)	-----	SW-846 8260D	-----
Dichloropropene (trans-1,3-)	-----	SW-846 8260D	-----
Ethylbenzene	-----	SW-846 8260D	-----
Hexachlorobutadiene (1,3-)	-----	SW-846 8260D	-----
Hexanone (2-)	-----	SW-846 8260D	-----

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Non-Potable Water</u>	<u>Solid and Aqueous</u>
Isopropylbenzene	-----	SW-846 8260D	-----
Isopropyltoluene (4-)	-----	SW-846 8260D	-----
Methyl tert-butyl ether	-----	SW-846 8260D	-----
Methylene chloride (Dichloromethane)	-----	SW-846 8260D	-----
Naphthalene	-----	SW-846 8260D	-----
Pentanone (4-methyl-2-) (MIBK)	-----	SW-846 8260D	-----
Propylbenzene (n-)	-----	SW-846 8260D	-----
Styrene	-----	SW-846 8260D	-----
tert-butylbenzene	-----	SW-846 8260D	-----
Tetrachloroethane (1,1,1,2-)	-----	SW-846 8260D	-----
Tetrachloroethane (1,1,2,2-)	-----	SW-846 8260D	-----
Tetrachloroethene	-----	SW-846 8260D	-----
Toluene	-----	SW-846 8260D	-----
Trichlorobenzene (1,2,3-)	-----	SW-846 8260D	-----
Trichlorobenzene (1,2,4-)	-----	SW-846 8260D	-----
Trichloroethane (1,1,1-)	-----	SW-846 8260D	-----
Trichloroethane (1,1,2-)	-----	SW-846 8260D	-----
Trichloroethene	-----	SW-846 8260D	-----
Trichlorofluoromethane	-----	SW-846 8260D	-----
Trichloropropane (1,2,3-)	-----	SW-846 8260D	-----
Trimethylbenzene (1,2,4-)	-----	SW-846 8260D	-----
Trimethylbenzene (1,3,5-)	-----	SW-846 8260D	-----
Vinyl chloride	-----	SW-846 8260D	-----
Xylene (m-)	-----	SW-846 8260D	-----
Xylene (o-)	-----	SW-846 8260D	-----
Xylene (p-)	-----	SW-846 8260D	-----
<u>Microbiology</u>			
<i>Escherichia coli</i>	SM 9223 B-05 SM 9222 B 05 plus SM 9221 E-05 plus MUG	SM 9221 B-05 & F-05	-----
Fecal Coliform	-----	SM 9221 C-05 & E-05 SM 9222D-05	-----
Total Coliform	SM 9223 B-05 SM 9222 B-05 plus SM 9221 E-05 plus MUG	SM 9221 B-05	-----
Total Microcystins	EPA 546	EPA 546	-----
<u>Prep Methods</u>			
Metals Prep	EPA 200.2	SW-846 3010A EPA 200.2	SW-846 3050B SW-846 1311 EPA 200.2
Organics Prep	-----	-----	SW-846 3580A
Semivolatile Organics Prep	-----	SW-846 3535A	SW-846 3541 SW-846 3665A SW-846 3620C SW-846 3660B
Volatile Organics Prep	-----	SW-846 5030B	-----



Accredited Laboratory

A2LA has accredited

U.S. ENVIRONMENTAL PROTECTION AGENCY REGION 10 MANCHESTER ENVIRONMENTAL LABORATORY

Port Orchard, WA

for technical competence in the field of

Environmental Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of A2LA R206 - *Specific Requirements - Environmental Testing Laboratory Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 29th day of September 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5027.01
Valid to August 31, 2022

For the tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.