



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ENVIRONMENTAL

Valid To: May 31, 2022

Certificate Number: 3590.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with the 2009 TNI Environmental Testing Laboratory Standard, and for the test methods applicable to the Wyoming Storage Tank Remediation Laboratory Accreditation Program, accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below:

Testing Technologies

Automated Phenate, Colorimetry, Flow Analyzer, Ion Chromatography, Spectrophotometry (Visible), Spectrophotometry (Automated), Titrimetry, Turbidity, Gas Chromatography, Gas Chromatography/Mass Spectrometry, Gravimetry, Miscellaneous – Electronic Probes (pH)

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Nonpotable Water</u>	<u>Solid Hazardous Waste</u>
<u>Nutrients</u>			
Ammonia (as N)	-----	EPA 350.1	-----
Kjeldahl Nitrogen	-----	EPA 351.2	-----
Total Organic Nitrogen	-----	EPA 350.1 EPA 351.2	-----
Total Inorganic Nitrogen	-----	EPA 350.1 EPA 353.2	-----
Total Nitrogen	EPA 351.2 EPA 353.2	EPA 351.2 EPA 353.2	-----
Nitrate (as N)	EPA 300.0 EPA 353.2	EPA 300.0 EPA 353.2	-----
Nitrate-nitrite (as N)	EPA 300.0 EPA 353.2	EPA 300.0 EPA 353.2	-----
Nitrite (as N)	EPA 300.0 SM 4500 NO ₂ -B-2011 SM 4500 NO ₂ -B-1997 SM 4500 NO ₂ -B-1993	EPA 300.0 SM 4500 NO ₂ -B-2011 SM 4500 NO ₂ -B-1997 SM 4500 NO ₂ -B-1993	-----
Orthophosphate (as P)	SM 4500 P E-2011 SM 4500 P E-1999 SM 4500 P E-1997	SM 4500 P E-2011 SM 4500 P E-1999 SM 4500 P E-1997	-----

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Nonpotable Water</u>	<u>Solid Hazardous Waste</u>
Total Phosphorus	-----	SM 4500 P E 2011 SM 4500 P E 1997 SM 4500 P E 1999	-----
Total Phosphorus as P	-----	SM 4500 P H 1999 SM 4500 P H 2011	-----
<u>Wet Chemistry</u>			
Acidity	-----	SM 2310B-2011 SM 2310B-1997	-----
Bromide	EPA 300.0	EPA 300.0 EPA 9056A	EPA 9056A
Chloride	EPA 300.0	EPA 300.0 EPA 9056A	EPA 9056A
Fluoride	EPA 300.0	EPA 300.0 EPA 9056A	EPA 9056A
Chlorophyll A	-----	SM 10200 H-2001	-----
pH	SM 4500 H ⁺ B-2011	SM 4500 H ⁺ B-2011 SM 4500 H ⁺ B-1996	EPA 9045D
Sulfate	EPA 300.0	EPA 300.0 EPA 9056A	EPA 9056A
Sulfide	-----	SM 4500 S2-D-1997 SM 4500 S2-D-2000 SM 4500 S2-D-2011	-----
Conductivity	SM 2510B-2011 SM 2510B-1997	SM 2510B-2011 SM 2510B-1997	-----
Total Solids	SM 2540B-2011 SM 2540B-1997	SM 2540B-2011 SM 2540B-1997	-----
Total Suspended Solids (TSS)	SM 2540D-2011 SM 2540D-1997	SM 2540D-2011 SM 2540D-1997	-----
Total Dissolved Solids (TDS)	SM 2540C-2011 SM 2540C-1997	SM 2540C-2011 SM 2540C-1997	-----
Turbidity	SM 2130B-2011 SM 2130B-2001 SM 2130B-1997	SM 2130B-2011 SM 2130B-2001 SM 2130B-1997	-----
Multi-Incremental Soil Sampling	-----	-----	ITRC ISM 2012
<u>Purgeable Organics (Volatiles)</u>			
Aliphatic (C5-C8)	-----	MA-VPH	MA-VPH
Aliphatic (C9-C12)	-----	MA-VPH	MA-VPH
Aliphatic (C9-C10)	-----	MA-VPH	MA-VPH
Aliphatic (C5-C8), Adjusted	-----	MA-VPH	MA-VPH
Aliphatic (C9-C12), Adjusted	-----	MA-VPH	MA-VPH
Aliphatic (C9-C18)	-----	MA-EPH	MA-EPH
Aliphatic (C19-C36)	-----	MA-EPH	MA-EPH
Aliphatic (C11-C22)	-----	MA-EPH	MA-EPH
Diesel Range Organics (DRO) C10-C28	-----	EPA 8015B, 8015C	EPA 8015B, 8015C
Diesel Range Organics (EDRO) C10-C36	-----	EPA 8015B, 8015C	EPA 8015B, 8015C

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Nonpotable Water</u>	<u>Solid Hazardous Waste</u>
Diesel Range Organics (MOR) C24-C36	-----	EPA 8015B, 8015C	EPA 8015B, 8015C
Gas Range Organics (GRO)	-----	EPA 8015B, 8015C	EPA 8015B, 8015C
1,2-Dibromomethane (EDB)	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2-Dichloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2,4-Trimethylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,3,5-Trimethylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Benzene	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
Cyclohexane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Ethyl Benzene	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
Hexane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Isopropylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Methyl-tert-butyl Ether	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
Naphthalene	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
Toluene	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
Xylenes, Total	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
o-Xylene	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
m&p-Xylene	-----	EPA 8260B, 8260D/ MA-VPH	EPA 8260B, 8260D/ MA-VPH
Total Extractable Hydrocarbons	-----	MA-EPH	MA-EPH
Total Purgeable Hydrocarbons	-----	MA-VPH	MA-VPH
Acetone	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Allyl Chloride	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Bromobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Bromochloromethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Bromodichloromethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Bromoform	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Bromomethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Carbon Disulfide	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Carbon Tetrachloride	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Chlorobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Chlorodibromomethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Chloroform	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Chloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Chloromethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
cis-1,2-Dichloroethylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
cis-1,3-Dichloropropylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Cyclohexane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Dibromomethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Nonpotable Water</u>	<u>Solid Hazardous Waste</u>
Dichlorodifluoromethane (Freon 12)	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Dichlorofluoromethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Diisopropyl Ether	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Diethyl Ether	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Hexachlorobutadiene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Methylene Chloride	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
n-Butylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
n-Propylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
sec-Butylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Styrene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
tert-Butylbenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Tetrachloroethylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Tetrahydrofuran	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
trans-1,2-Dichloroethylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
trans-1,3-Dichloropropylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Trichloroethylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Trichlorotrifluoroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Trichlorofluoromethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
Vinyl chloride	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1-Dichloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1-Dichloroethylene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1-Dichloropropene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1,1-Trichloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1,2-Trichloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1,1,2-Tetrachloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,1,2,2-Tetrachloroethane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2-Dibromo-3-chloropropane (DBCP)	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2-Dichlorobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2-Dichloropropane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2,3-Trichlorobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2,3-Trichloropropane (TCP)	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,3-Dichlorobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,3-Dichloropropane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,4-Dichlorobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
1,2,4-Trichlorobenzene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
2,2-Dichloropropane	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
2-Chlorotoluene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
2-Hexanone	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
4-Chlorotoluene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
4-Isopropyltoluene	-----	EPA 8260B, 8260D	EPA 8260B, 8260D
4-Methyl-2-pentanone (MIBK)	-----	EPA 8260B, 8260D	EPA 8260B, 8260D

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Nonpotable Water</u>	<u>Solid Hazardous Waste</u>
TCLP	-----	EPA 1311	EPA 1311
TCLP Prep	-----	EPA 3010B	-----
SPLP	-----	-----	EPA 1312

*Conducting only analysis of the TCLP leachate generated by EPA Method 1311.

WYOMING STORAGE TANK PROGRAM

<u>Parameter/Analyte</u>	<u>Nonpotable Water</u>	<u>Solid Hazardous Waste</u>
<u>Purgeable Organics (Volatiles)</u>		
Benzene	EPA 8260B, 8260D	EPA 8260B, 8260D
Ethyl Benzene	EPA 8260B, 8260D	EPA 8260B, 8260D
Methyl-tert-butyl Ether	EPA 8260B, 8260D	EPA 8260B, 8260D
Naphthalene	EPA 8260B, 8260D	EPA 8260B, 8260D
Toluene	EPA 8260B, 8260D	EPA 8260B, 8260D
o-Xylene	EPA 8260B, 8260D	EPA 8260B, 8260D
m & p-Xylene	EPA 8260B, 8260D	EPA 8260B, 8260D
Xylenes, Total	EPA 8260B, 8260D	EPA 8260B, 8260D



Accredited Laboratory

A2LA has accredited

PACE ANALYTICAL SERVICES, LLC.

Billings, MT

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 the A2LA R206 – *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 28th day of January 2020.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3590.01
Valid to May 31, 2022

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