SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ENVIRONMENTAL

Valid To: November 30, 2021 Certificate Number: 2897.01

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, and the requirements of the DoD Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in version 5.3 of the DoD Quality Systems Manual for Environmental Laboratories) 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: High Resolution Gas Chromatography/High Resolution Mass Spectrometry and Liquid Chromatography/Mass Spec/Mass Spec

Parameter/Analyte	Hazardous Waste		Tissue	Air/Emissions
	Aqueous	Solid		
Dioxins/Furans				
1,2,3,7,8-PeCDD	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,4,7,8-HxCDD	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,6,7,8-HxCDD	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,7,8,9-HxCDD	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,4,6,7,8-HpCDD	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
OCDD	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
2,3,7,8-TCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,7,8-PeCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
2,3,4,7,8-PeCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,4,7,8-HxCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23

WITHDRAWN

Parameter/Analyte	Hazardous Waste		Tissue	Air/Emissions
	Aqueous	Solid		
1,2,3,6,7,8-HxCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,7,8,9-HxCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
2,3,4,6,7,8-HxCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,4,6,7,8-HpCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
1,2,3,4,7,8,9-HpCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
OCDF	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	EPA 1613B/8290/ 8290A	TO-9A EPA Method 23
Perchlorate	EPA 6850	EPA 6850	----------	----------
Sample Preparation	Liquid-Liquid Extraction	Liquid Extraction/ Soxhlet	Soxhlet	Soxhlet
Perfluorobutanoic Acid (PFBA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluoropentanoic Acid (PFPeA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluoropentane Sulfonoic Acid (PFPeS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorobutane Sulfonic Acid (PFBS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorohexanoic Acid (PFHxA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluoroheptanoic Acid (PFHpA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorohexane Sulfonic Acid (PFHxS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorooctanoic Acid (PFOA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorononanoic Acid (PFNA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------

WITHDRAWN

Parameter/Analyte	Hazardous Waste		Tissue	Air/Emissions
	Aqueous	Solid		
Perfluorononane Sulfonic Acid (PFNS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorooctane Sulfonic Acid (PFOS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorodecanoic Acid (PFDA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluoroundecanoic Acid (PFUnDA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorodecane Sulfonic Acid (PFDS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorododecanoic Acid (PFDoDA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluoroheptane Sulfonic Acid (PFHpS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorooctanesulfonamide (FOSA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
N-Methyl Perfluorooctane Sulfonamide (MeFOSA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
N-Ethyl Perfluorooctane Sulfonamide (EtFOSA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorotridecanoic Acid (PFTrDA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Perfluorotetradecanoic Acid (PFTeDA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
N-Methyl Perfluorooctane sulfonamidoethanol (MeFOSE)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
N-Ethyl Perfluorooctane sulfonamidoethanol (EtFOSE)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
N-Methyl Perfluorooctane Sulfonamidoacetic Acid (NMeFOSAA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
N-Ethyl Perfluorooctane Sulfonamidoacetic Acid (NEtFOSAA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------

WITHDRAWN

Parameter/Analyte	Hazardous Waste		Tissue	Air/Emissions
	Aqueous	Solid		
4:2 Fluorotelomer Sulfonic Acid (4:2 FTS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
6:2 Fluorotelomer Sulfonic Acid (6:2 FTS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
8:2 Fluorotelomer Sulfonic Acid (8:2 FTS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
10:2 Fluorotelomer Sulfonic Acid (10:2 FTS)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
2,3,3,3-tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy) propanoic Acid (HFPO-DA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
11-Chloroperfluoro-3-oxaundecane-1-sulfonic Acid	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
9-Chloroperfluoro-3-oxanonane-1-sulfonic Acid	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	PFAS by LCMSMS Compliant with Table B-15 of QSM 5.3	----------	----------
Sample Preparation	Solid Phase Extraction	Solid Phase Extraction	----------	----------

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform recognized EPA methods for the test methods applicable to ISO IEC 17025:2017:

Parameter/Analyte	Potable Water	Solid Hazardous Waste		Foods
		Aqueous	Solid	
Dioxins/Furans				
2,3,7,8-TCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,7,8-PeCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,4,7,8-HxCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,6,7,8-HxCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,7,8,9-HxCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,4,6,7,8-HpCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
OCDD	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
2,3,7,8-TCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,7,8-PeCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
2,3,4,7,8-PeCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,4,7,8-HxCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B

WITHDRAWN

Parameter/Analyte	Potable Water	Solid Hazardous Waste		Foods
		Aqueous	Solid	
Dioxins/Furans				
1,2,3,6,7,8-HxCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,7,8,9-HxCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
2,3,4,6,7,8-HxCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,4,6,7,8-HpCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
1,2,3,4,7,8,9-HpCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
OCDF	EPA 1613B	EPA 1613B	EPA 1613B	EPA 1613B
Sample Preparation	Liquid-Liquid	Liquid-Liquid	Soxhlet	Soxhlet

WITHDRAWN

Accredited Laboratory

A2LA has accredited

ALS LABORATORY GROUP, ENVIRONMENTAL

Houston, TX

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2017, the 2009 TNI Environmental Testing Laboratory Standard, and the requirements of the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in version 5.3 of the DoD/DOE Quality System Manual for Environmental Laboratories (QSM), accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 9th day of January 2020.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2897.01
Valid to November 30, 2021

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

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