



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Laboratory of:

ALS Environmental-Kelso
1317 South 13th Avenue, Kelso, WA 98626

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2017 General Requirements for the competence of Testing and Calibration Laboratories and the United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP) requirements identified within the DoD/DOE Quality Systems Manual (DoD/DOE QSM) Version 5.3 May 2019 and is accredited in accordance with the:

United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP)

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system
(as outlined by the joint ISO-ILAC-IAF Communiqué dated April 2017):

Chemical and Environmental Testing
(As detailed in the supplement)

Accreditation claims for such testing and/or calibration services shall only be made from addresses referenced within this certificate. This Accreditation is granted subject to the system rules governing the Accreditation referred to above, and the Organization hereby covenants with the Accreditation body's duty to observe and comply with the said rules.

For PJLA:

Tracy Szerszen
President

<i>Initial Accreditation Date:</i>	<i>Issue Date:</i>	<i>Expiration Date:</i>
July 19, 2011	July 10, 2020	July 10, 2022
<i>Revision Date:</i>	<i>Accreditation No.:</i>	<i>Certificate No.:</i>
May 6, 2021	65188	L20-395-R1

Perry Johnson Laboratory
Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjllabs.com



Certificate of Accreditation: Supplement

ISO/IEC 17025:2017 and DoD-ELAP

ALS Environmental-Kelso

1317 South 13th Avenue, Kelso, WA 98626

Contact Name: Kurt Clarkson Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous	EPA 1631E	CVAFS	Mercury (Low level)
Aqueous	EPA 1664A	Gravimetry	Hexane Extractable Material (HEM)
Aqueous	EPA 1664A	Gravimetry	Total Petroleum Hydrocarbons (TPH)
Aqueous	EPA 180.1	Turbidimetry	Turbidity
Aqueous	SM 2340B	Calculation by 6010	Hardness as CaCO ₃
Aqueous	EPA 245.1	CVAA	Mercury
Aqueous	EPA 300.0	IC	Bromide
Aqueous	EPA 300.0	IC	Chloride
Aqueous	EPA 300.0	IC	Fluoride
Aqueous	EPA 300.0	IC	Nitrate
Aqueous	EPA 300.0	IC	Nitrite as N
Aqueous	EPA 300.0	IC	Sulfate
Aqueous	EPA 353.2	Colorimetry	Nitrate + Nitrite as N
Aqueous	EPA 7196A	Colorimetry	Chromium VI
Aqueous	EPA 6020, A, B /200.8	ICP-MS	Calcium
Aqueous	EPA 6020, A, B /200.8	ICP-MS	Potassium
Aqueous	EPA 6020, A, B /200.8	ICP-MS	Magnesium
Aqueous	EPA 6020, A, B /200.8	ICP-MS	Sodium
Aqueous	EPA 7470A	CVAA	Mercury
Aqueous	EPA 8260C SIM	GC-MS	1,1,2,2-Tetrachloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,1,2-Trichloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,1-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	1,2-Dibromoethane
Aqueous	EPA 8260C SIM	GC-MS	1,2-Dichloroethane
Aqueous	EPA 8260C SIM	GC-MS	1,4-Dichlorobenzene
Aqueous	EPA 8260C SIM	GC-MS	Bromodichloromethane
Aqueous	EPA 8260C SIM	GC-MS	Carbon Tetrachloride
Aqueous	EPA 8260C SIM	GC-MS	Chlorodibromomethane
Aqueous	EPA 8260C SIM	GC-MS	Chloroform
Aqueous	EPA 8260C SIM	GC-MS	Chloromethane
Aqueous	EPA 8260C SIM	GC-MS	cis-1,2-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Dichloromethane (Methylene Chloride)
Aqueous	EPA 8260C SIM	GC-MS	Tetrachloroethene
Aqueous	EPA 8260C SIM	GC-MS	trans-1,2-Dichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Trichloroethene
Aqueous	EPA 8260C SIM	GC-MS	Vinyl chloride
Aqueous	EPA 9020B	Titrimetry	Total Organic Halides (TOX)
Aqueous	EPA 9040C	Potentiometry	pH



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Matrix	Standard/Method	Technology	Analyte
Aqueous	Kelada-01	Colorimetric	Cyanide
Aqueous	SM 2130B	Turbidimetry	Turbidity
Aqueous	SM 2320B	Titrimetry	Total Alkalinity (as CaCO ₃)
Aqueous	SM 2510B	Potentiometry	Specific Conductance
Aqueous	SM 2540B	Gravimetry	Solids, Total
Aqueous	SM 2540C	Gravimetry	Solids, Total Dissolved
Aqueous	SM 2540D	Gravimetry	Solids, Total Suspended
Aqueous	SM 4500-CN- G	Colorimetry	Cyanide, Amenable
Aqueous	SM 4500-P-E	Colorimetry	ortho-phosphorous
Aqueous	SM 4500-S2 D	Titrimetry	Sulfide
Aqueous	SM 4500-CN E	Colorimetry	Total Cyanide
Aqueous	SM4500-NH3 G	Colorimetry	Ammonia
Aqueous	SM5220C	Titrimetry	Chemical Oxygen Demand (COD)
Aqueous	SM5310C	UV-VIS Spectrophotometry	Total Organic Carbons (TOC)
Drinking Water	EPA 504.1	GC-ECD	1,2-Dibromo-3-chloropropane (DBCP)
Drinking Water	EPA 504.1	GC-ECD	1,2-Dibromoethane (EDB)
Drinking Water	EPA 524.2	GC-MS	1,1,1,2-Tetrachloroethane
Drinking Water	EPA 524.2	GC-MS	1,1,1-Trichloroethane
Drinking Water	EPA 524.2	GC-MS	1,1,2,2-Tetrachloroethane
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloroethane
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	1,1-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	1,2,3-Trichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2,3-Trichloropropane
Drinking Water	EPA 524.2	GC-MS	1,2,4-Trichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2,4-Trimethylbenzene
Drinking Water	EPA 524.2	GC-MS	1,2-Dibromoethane (EDB)
Drinking Water	EPA 524.2	GC-MS	1,2-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,2-Dichloroethane
Drinking Water	EPA 524.2	GC-MS	1,2-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	1,3,5-Trimethylbenzene
Drinking Water	EPA 524.2	GC-MS	1,3-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	1,3-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	1,4-Dichlorobenzene
Drinking Water	EPA 524.2	GC-MS	2,2-Dichloropropane
Drinking Water	EPA 524.2	GC-MS	2-Chlorotoluene



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Matrix	Standard/Method	Technology	Analyte
Drinking Water	EPA 524.2	GC-MS	4-Chlorotoluene
Drinking Water	EPA 524.2	GC-MS	4-Isopropyltoluene
Drinking Water	EPA 524.2	GC-MS	Benzene
Drinking Water	EPA 524.2	GC-MS	Bromobenzene
Drinking Water	EPA 524.2	GC-MS	Bromochloromethane
Drinking Water	EPA 524.2	GC-MS	Bromodichloromethane
Drinking Water	EPA 524.2	GC-MS	Bromoform
Drinking Water	EPA 524.2	GC-MS	Bromomethane
Drinking Water	EPA 524.2	GC-MS	Carbon Tetrachloride
Drinking Water	EPA 524.2	GC-MS	Chlorobenzene
Drinking Water	EPA 524.2	GC-MS	Chlorodibromomethane
Drinking Water	EPA 524.2	GC-MS	Chloroethane
Drinking Water	EPA 524.2	GC-MS	Chloroform
Drinking Water	EPA 524.2	GC-MS	Chloromethane
Drinking Water	EPA 524.2	GC-MS	cis-1,2-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	cis-1,3-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	Dibromomethane
Drinking Water	EPA 524.2	GC-MS	Dichlorodifluoromethane
Drinking Water	EPA 524.2	GC-MS	Dichloromethane (Methylene Chloride)
Drinking Water	EPA 524.2	GC-MS	Ethylbenzene
Drinking Water	EPA 524.2	GC-MS	Hexachlorobutadiene
Drinking Water	EPA 524.2	GC-MS	Isopropylbenzene
Drinking Water	EPA 524.2	GC-MS	Naphthalene
Drinking Water	EPA 524.2	GC-MS	n-Butylbenzene
Drinking Water	EPA 524.2	GC-MS	n-Propylbenzene
Drinking Water	EPA 524.2	GC-MS	sec-Butylbenzene
Drinking Water	EPA 524.2	GC-MS	Styrene
Drinking Water	EPA 524.2	GC-MS	tert-butylbenzene
Drinking Water	EPA 524.2	GC-MS	Tetrachloroethene
Drinking Water	EPA 524.2	GC-MS	Toluene
Drinking Water	EPA 524.2	GC-MS	trans-1,2-Dichloroethene
Drinking Water	EPA 524.2	GC-MS	trans-1,3-Dichloropropene
Drinking Water	EPA 524.2	GC-MS	Trichloroethene
Drinking Water	EPA 524.2	GC-MS	Trichlorofluoromethane (Freon 11)



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Drinking Water	EPA 524.2	GC-MS	Vinyl chloride
Drinking Water	EPA 524.2	GC-MS	Xylenes, total
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorobutane sulfonic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorohexane sulfonic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorooctane sulfonic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorohexanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluoroheptanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorooctanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorononanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorodecanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluoroundecanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorododecanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorotridecanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Perfluorotetradecanoic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	N-Methyl perfluorooctane sulfonamidoacetic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	N-Ethyl perfluorooctane sulfonamidoacetic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	9-Chloroperfluoro-3-oxanonane-1-sulfonic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	11-Chloroperfluoro-3-oxaundecane-1-sulfonic acid
Drinking Water	EPA 537.1	HPLC/MS/MS	Hexafluoropropylene oxide dimer acid
Drinking Water	EPA 537.1	HPLC/MS/MS	4,8-Dioxa-3H-perfluorononanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorobutanesulfonic Acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorodecanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorododecanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluoroheptanoic Acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorohexanesulfonic Acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorohexanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorononanoic Acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorooctanesulfonic Acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorooctanoic Acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorotetradecanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluorotridecanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	Perfluoroundecanoic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	N-Ethylperfluoro-1-octanesulfonamidoacetic acid
Drinking Water	EPA 537 1.1	HPLC/MS/MS	N-Methylperfluoro-1-octanesulfonamidoacetic acid
Solid	ASTM D422-63 (2007)	Gravimetric	Particle Size
Solid	ASTM D4129-05M, Lloyd Kahn	Coulmetry	Total Organic Carbons (TOC)
Solid	EPA 160.3M	Gravimetry	Solids, Total



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Matrix	Standard/Method	Technology	Analyte
Solid	EPA 1631E	CVFAS	Mercury (low level)
Solid	EPA 7471A, B	CVAA	Mercury
Solid	EPA 9045D	Potentiometry	pH
Solid	EPA 9056A	IC	Nitrate as N
Solid	EPA 9071A	Gravimetry	Hexane Extractable Material (HEM)
Solid	PSEP	Gravimetry	Particle Size
Solid	SOP-GEN-AVS	Colorimetry	Acid Volatile Sulfides
Aqueous/Solid	ASTM D 1426-93B	Potentiometry	Nitrogen, Total Kjeldahl (TKN)
Aqueous/Solid	EPA 1020A	Physical Property	Ignitability
Aqueous/Solid	EPA 350.1	Colorimetry	Ammonia
Aqueous/Solid	EPA 365.3	Colorimetry	Total Phosphorus
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Aluminum
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Antimony
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Arsenic
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Barium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Beryllium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Boron
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Cadmium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Calcium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Chromium, total
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Cobalt
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Copper
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Iron
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Lead
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Magnesium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Manganese
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Molybdenum
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Nickel
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Potassium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Selenium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Silver
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Sodium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Strontium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Thallium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Tin
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Titanium



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Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Vanadium
Aqueous/Solid	EPA 6010B, C, D/200.7	ICP	Zinc
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Aluminum
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Antimony
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Arsenic
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Barium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Beryllium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Boron
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Cadmium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Chromium, total
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Cobalt
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Copper
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Iron
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Lead
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Manganese
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Molybdenum
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Nickel
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Selenium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Silver
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Strontium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Thallium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Tin
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Titanium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Vanadium
Aqueous/Solid	EPA 6020, A, B /200.8	ICP-MS	Zinc
Aqueous/Solid	EPA 8015B	GC-FID	Residual Range Organics (RRO)
Aqueous/Solid	EPA 8015B	GC-FID	Gasoline Range Organics (RRO)
Aqueous/Solid	EPA 8015B	GC-FID	Diesel Range Organics (RRO)
Aqueous/Solid	EPA 8015C/AK103-RRO-NWTPH-Rx	GC-FID	Residual Range Organics (RRO)
Aqueous/Solid	EPA 8015C; AK101-GRO; NWTPH-Gx	GC-FID	Gasoline Range Organics (GRO)
Aqueous/Solid	EPA 8015C; AK102-DRO; NWTPH-Dx	GC-FID	Diesel Range Organics (DRO)
Aqueous/Solid	EPA 8081A, B	GC-ECD	Aldrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Alpha-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	alpha-Chlordane



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Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8081A, B	GC-ECD	Chlordane (total)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDD (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDE (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	DDT (4,4)
Aqueous/Solid	EPA 8081A, B	GC-ECD	delta-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	Dieldrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan I
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan II
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endosulfan sulfate
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin aldehyde
Aqueous/Solid	EPA 8081A, B	GC-ECD	Endrin ketone
Aqueous/Solid	EPA 8081A, B	GC-ECD	gamma-BHC
Aqueous/Solid	EPA 8081A, B	GC-ECD	gamma-Chlordane
Aqueous/Solid	EPA 8081A, B	GC-ECD	Heptachlor
Aqueous/Solid	EPA 8081A, B	GC-ECD	Heptachlor Epoxide (beta)
Aqueous/Solid	EPA 8081A, B	GC-ECD	Methoxychlor
Aqueous/Solid	EPA 8081A, B	GC-ECD	Toxaphene (total)
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDD
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDE
Aqueous/Solid	EPA 8081B	GC-ECD	2,4-DDT
Aqueous/Solid	EPA 8081B	GC-ECD	Chlorpyrifos
Aqueous/Solid	EPA 8081B	GC-ECD	cis-Nonachlor
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachlorobenzene
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachlorobutadiene
Aqueous/Solid	EPA 8081B	GC-ECD	Hexachloroethane
Aqueous/Solid	EPA 8081B	GC-ECD	Isodrin
Aqueous/Solid	EPA 8081B	GC-ECD	Mirex
Aqueous/Solid	EPA 8081B	GC-ECD	Oxychlordane
Aqueous/Solid	EPA 8081B	GC-ECD	trans-Nonachlor
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1016
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1221
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1232
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1242
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1248
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1254



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Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1260
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1262
Aqueous/Solid	EPA 8082	GC-ECD	Aroclor 1268
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB 206)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB 195)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,3',4,4',5,5',6,6' Decachlorobiphenyl (PCB 209)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB 170)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,3',4,4'-Hexachlorobiphenyl (PCB 128)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4,4',5,6-Heptachlorobiphenyl (PCB 183)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4,4',5'-Hexachlorobiphenyl (PCB 138)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4,4',6,6'-Heptachlorobiphenyl (PCB 184)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB 187)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4,5'-Pentachlorobiphenyl (PCB 87)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,4',5-Pentachlorobiphenyl (PCB 90)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',3,5'-Tetrachlorobiphenyl (PCB 44)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',4,4',5,5'-Hexachlorobiphenyl (PCB 153)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',4,5,5'-Pentachlorobiphenyl (PCB 101)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',5,5'-Tetrachlorobiphenyl (PCB 52)
Aqueous/Solid	EPA 8082A	GC-ECD	2,2',5-Trichlorobiphenyl (PCB 18)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,3',4,4',5,5'-Heptachlorobiphenyl (PCB 189)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,3',4,4',5-Hexachlorobiphenyl (PCB 156)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,3',4,4',5'-Hexachlorobiphenyl (PCB 157)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,3',4,4',6-Hexachlorobiphenyl (PCB 158)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,3',4,4'-Pentachlorobiphenyl (PCB 105)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3',4,4',5,5' Hexachlorobiphenyl (PCB 167)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3',4,4',5',6-Hexachlorobiphenyl (PCB 168)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,4,4',5-Pentachlorobiphenyl (PCB 114)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3',4,4',5-Pentachlorobiphenyl (PCB 118)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3',4,4',5-Pentachlorobiphenyl (PCB 123)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3,4,4'-Tetrachlorobiphenyl (PCB 60)
Aqueous/Solid	EPA 8082A	GC-ECD	2,3',4,4'-Tetrachlorobiphenyl (PCB 66)
Aqueous/Solid	EPA 8082A	GC-ECD	2,4,4'-Trichlorobiphenyl (PCB 28)
Aqueous/Solid	EPA 8082A	GC-ECD	2,4'-Dichlorobiphenyl (PCB 8)
Aqueous/Solid	EPA 8082A	GC-ECD	3,3',4,4',5,5'-Hexachlorobiphenyl (PCB 169)
Aqueous/Solid	EPA 8082A	GC-ECD	3,3',4,4',5-Pentachlorobiphenyl (PCB 126)



Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

ALS Environmental-Kelso

1317 South 13th Avenue, Kelso, WA 98626
Contact Name: Kurt Clarkson Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8082A	GC-ECD	3,3',4,4'-Tetrachlorobiphenyl (PCB 77)
Aqueous/Solid	EPA 8082A	GC-ECD	3,4,4',5-Tetrachlorobiphenyl (PCB 81)
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1016
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1221
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1232
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1242
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1248
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1254
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1260
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1262
Aqueous/Solid	EPA 8082A	GC-ECD	Aroclor 1268
Aqueous/Solid	EPA 8151A	GC-ECD	2,4,5-T
Aqueous/Solid	EPA 8151A	GC-ECD	2,4-D
Aqueous/Solid	EPA 8151A	GC-ECD	2,4-DB
Aqueous/Solid	EPA 8151A	GC-ECD	Dalapon
Aqueous/Solid	EPA 8151A	GC-ECD	Dicamba
Aqueous/Solid	EPA 8151A	GC-ECD	Dichloroprop
Aqueous/Solid	EPA 8151A	GC-ECD	Dinoseb
Aqueous/Solid	EPA 8151A	GC-ECD	MCPA
Aqueous/Solid	EPA 8151A	GC-ECD	MCPP
Aqueous/Solid	EPA 8151A	GC-ECD	Silvex (2,4,5-TP)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1,1,2-Tetrachloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1,1-Trichloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1,2,2-Tetrachloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1,2-Trichloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1-Dichloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2-Dibromoethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2-Dichloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2-Dichloropropane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,3,5-Trimethylbenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,3-Dichloropropane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1-phenylpropane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	2,2-Dichloropropane



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1317 South 13th Avenue, Kelso, WA 98626
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Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8260B, C, D	GC-MS	2-Butanone (MEK)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	2-Chloroethylvinylether
Aqueous/Solid	EPA 8260B, C, D	GC-MS	2-Chlorotoluene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	2-Hexanone
Aqueous/Solid	EPA 8260B, C, D	GC-MS	4-Chlorotoluene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	4-Isopropyltoluene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	4-Methyl-2-pentanone (MIBK)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Acetone
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Acetonitrile
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Acrolein
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Acrylonitrile
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Benzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Bromobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Bromochloromethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Bromodichloromethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Bromoform
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Bromomethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Carbon disulfide
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Carbon Tetrachloride
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Chlorobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Chlorodibromomethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Chloroethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Chloroform
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Chloromethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	cis-1,2-Dichloroethene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	cis-1,3-Dichloropropene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Dibromomethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Dichlorodifluoromethane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Dichloromethane (Methylene Chloride)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Di-isopropylether (DIPE)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	ETBE
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Ethylbenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Freon 11
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Freon 113
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Isopropylbenzene



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1317 South 13th Avenue, Kelso, WA 98626
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Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Methyl-tert-butylether (MTBE)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Naphthalene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	n-Butylbenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	n-Propylbenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	sec-Butylbenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Styrene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	tert-amylmethylether (TAME)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	tert-Butyl alcohol
Aqueous/Solid	EPA 8260B, C, D	GC-MS	tert-butylbenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Tetrachloroethene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Toluene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	trans-1,2-Dichloroethene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	trans-1,3-Dichloropropene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Trichloroethene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Trichlorofluoromethane (Freon 11)
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Vinyl acetate
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Vinyl chloride
Aqueous/Solid	EPA 8260B, C, D	GC-MS	Xylene, total
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1-Dichloroethene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,1-Dichloropropene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2,3-Trichlorobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2,3-Trichloropropane
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8260B, C, D	GC-MS	1,2,4-Trimethylbenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,4,5-Trichlorophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,4,6-Trichlorophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,4-Dichlorophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,4-Dimethylphenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,4-Dinitrophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,4-Dinitrotoluene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,6-Dinitrotoluene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Chloronaphthalene



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Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Chlorophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Methyl-4,6-Dinitrophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Methylphenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Nitroaniline
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2-Nitrophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	3,3-Dichlorobenzidine
Aqueous/Solid	EPA 8270C, D, E	GC-MS	3-Nitroaniline
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Bromophenyl-phenylether
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Chloro-3-methylphenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Chloroaniline
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Chlorophenyl-phenylether
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Methylphenol (and/or 3-Methylphenol)
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Nitroaniline
Aqueous/Solid	EPA 8270C, D, E	GC-MS	4-Nitrophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Acenaphthene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Acenaphthylene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Aniline
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Anthracene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzidine
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzo(a)anthracene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzo(a)pyrene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzo(b)fluoranthene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzo(g,h,i)perylene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzo(k)fluoranthene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzoic acid
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Benzyl alcohol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	bis(2-Chloroethoxy)methane
Aqueous/Solid	EPA 8270C, D, E	GC-MS	bis(2-Chloroethyl)ether
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,2'-oxybis(1-Chloropropane)
Aqueous/Solid	EPA 8270C, D, E	GC-MS	bis(2-ethylhexy)phthalate
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Butyl benzyl phthalate
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Carbazole
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Chrysene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Dibenzo(a,h)anthracene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Dibenzofuran



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Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Diethyl phthalate
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Dimethylphthalate
Aqueous/Solid	EPA 8270C, D, E	GC-MS	di-n-butylphthalate
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Di-n-octylphthalate
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Fluoranthene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Fluorene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Hexachlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Hexachlorocyclopentadiene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Hexachloroethane
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Indeno(1,2,3, cd)pyrene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Isophorone
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Naphthalene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Nitrobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	N-Nitrosodimethylamine
Aqueous/Solid	EPA 8270C, D, E	GC-MS	N-Nitroso-di-n-propylamine
Aqueous/Solid	EPA 8270C, D, E	GC-MS	N-Nitrosodiphenylamine
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Pentachlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Pentachlorophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Phenanthrene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Phenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Pyrene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	Pyridine
Aqueous/Solid	EPA 8270C, D, E	GC-MS	2,3,4,6-Tetrachlorophenol
Aqueous/Solid	EPA 8270C, D, E	GC-MS	1,2,4,5-Tetrachlorobenzene
Aqueous/Solid	EPA 8270C, D, E	GC-MS	1- Methylnaphthalene
Aqueous/Solid	EPA 8270 SIM	GC-MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Acenaphthene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Acenaphthylene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Anthracene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Benzo(a)anthracene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Benzo(a)pyrene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Benzo(b)fluoranthene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Benzo(g,h,i)perylene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Benzo(k)fluoranthene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Chrysene



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ALS Environmental-Kelso

1317 South 13th Avenue, Kelso, WA 98626
Contact Name: Kurt Clarkson Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8270 SIM	GC-MS	Dibenzo(a,h)anthracene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Fluoranthene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Fluorene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Indeno(1,2,3, cd)pyrene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Naphthalene
Aqueous/Solid	EPA 8270 SIM	GC-MS	p-Dioxane
Aqueous/Solid	EPA 8270 SIM	GC-MS	Phenanthrene
Aqueous/Solid	EPA 8270 SIM	GC-MS	Pyrene
Aqueous/Solid	EPA 9012B	Colorimetry	Total Cyanide
Aqueous/Solid	EPA 9030B	Distillation	Sulfide
Aqueous/Solid	EPA 9056A	IC	Bromide
Aqueous/Solid	EPA 9056A	IC	Chloride
Aqueous/Solid	EPA 9056A	IC	Fluoride
Aqueous/Solid	EPA 9056A	IC	Sulfate
Aqueous/Solid	EPA 9060A	UV-VIS Spectrophotometry	Total Organic Carbons (TOC)
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	4:2 Fluorotelomersulfonate
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	6:2 Fluorotelomersulfonate
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	8:2 Fluorotelomersulfonate
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	N-Ethylperfluorooctanesulfonamide
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	N-Ethylperfluorooctanesulfonamidoethanol
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	N-Methylperfluorooctanesulfonamide
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	N-Methylperfluorooctanesulfonamidoethanol
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluoroheptane sulfonic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorooctane Sulfonamide
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorotetradecanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorotridecanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorobutane sulfonic acid



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Contact Name: Kurt Clarkson Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorobutanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorodecane sulfonic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorodecanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorododecanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluoroheptanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorohexane sulfonic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorohexanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorononanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorooctane sulfonic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluorooctanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluoropentanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	Perfluoroundecanoic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	N-Ethylperfluorooctanesulfonamidoacetic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	N-Methylperfluorooctanesulfonamidoacetic acid
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	PFPeS
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	PFNS
Aqueous/Solid	PFAS by LCMSMS Compliant with QSM 5.3 Table B-15	LC/MS/MS	10:2 FTS
Aqueous/Solid	SOC-Butyl	GC-FPD	Di-n-butyltin
Aqueous/Solid	SOC-Butyl	GC-FPD	n-Butyltin
Aqueous/Solid	SOC-Butyl	GC-FPD	Tetra-n-butyltin
Aqueous/Solid	SOC-Butyl	GC-FPD	Tri-n-butyltin



Certificate of Accreditation: Supplement

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ALS Environmental-Kelso

1317 South 13th Avenue, Kelso, WA 98626

Contact Name: Kurt Clarkson Phone: 360-577-7222

Accreditation is granted to the facility to perform the following testing:

Matrix	Standard/Method	Technology	Analyte
Aqueous	EPA 1640	Reductive Metals Precipitation	Prep Method
Aqueous	EPA 3010A	Acid Digestion	Metals Digestion
Aqueous	EPA 3020A	Acid Digestion	Metals Digestion
Aqueous	EPA 3510C	Separatory Liquid-Liquid Extraction	Extractable Prep
Aqueous	EPA 3511	Microextraction	Extractable Prep
Aqueous	EPA 3520C	Continuous Liquid-Liquid Extraction	Extractable Prep
Aqueous	EPA 3535A	Solid Phase Extraction	Prep Method
Aqueous	EPA 5030B	Purge and Trap	Volatile Prep
Aqueous	SOP-MET-DIG	Acid Digestion	Metals Digestion
Solid	EPA 3050B	Acid Digestion	Metals Digestion
Solid	EPA 3060	Alkaline Digestion	Alkaline Digestion for Cr (VI) only
Solid	EPA 3541	Automated Soxhlet Extraction	Extractable Prep
Solid	EPA 3546	Microwave Extraction	Extractable Prep
Solid	EPA 3550B	Ultrasonic Extraction	Extractable Prep
Solid	EPA 5035A	Purge and Trap	Voc Organics
Solid	EPA 5050	Bomb Digestion	Prep Method
Solid	EPA 9013	Midi-Distillation	Cyanides
Solid	SOP-GEN-AVS	Acid Digestion	Simultaneously Extracted Metals
Aqueous/Solids	ASTM D3590-89	Digestion	TKN
Aqueous/Solids	EPA 1311	TCLP Extraction	Physical Extraction
Aqueous/Solids	EPA 1312	SPLP Extraction	Physical Extraction
Aqueous/Solids	EPA 3620C	Florisil Clean Up	Extractable Cleanup
Aqueous/Solids	EPA 3630C	Silica Gel Clean Up	Extractable Prep
Aqueous/Solids	EPA 3640A	Gel-Permeation Clean Up	Extractable Cleanup
Aqueous/Solids	EPA 3660	Sulfur Clean Up	Extractable Prep
Aqueous/Solids	EPA 3665A	Acid Clean Up	Extractable Cleanup