



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ALS Environmental

225 Commerce Drive, Fort Collins, CO 80524

(Hereinafter called the Organization) and hereby declares that Organization has met the requirements of ISO/IEC 17025:2005 “General Requirements for the competence of Testing and Calibration Laboratories” and the DoD Quality Systems Manual for Environmental Laboratories Version 5.1.1 February 2018 and is accredited in accordance with the:

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

This accreditation demonstrates technical competence for the defined scope:

***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/Operations Manager

Initial Accreditation Date:

July 8, 2017

Issue Date:

January 4, 2019

Expiration Date:

January 4, 2021

Revision Date:

January 21, 2020

Accreditation No.:

95377

Certificate No.:

L19-9-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.pjilabs.com



Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

ALS Environmental

225 Commerce Drive, Fort Collins, CO 80524
Contact Name: Joel Nolte Phone: 801-266-7700

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

Matrix	Standard/Method	Technology	Analyte
Aqueous	EPA 150.1/EPA 9040C/SM 4500-H+ B-2011	ISE	pH
Aqueous	EPA 160.1/SM 2540 C-2011	Gravimetric	Total Dissolved Solids
Aqueous	EPA 160.2/SM 2540 D-2011	Gravimetric	Total Suspended Solids
Aqueous	EPA 245.1/EPA 7470	CVAA	Mercury
Aqueous	EPA 335.2/EPA 9014/SM 4500-CN C,E-1999	Colorimetric	Cyanide (Total)
Aqueous	EPA 353.2	UV/VIS	Nitrogen, Nitrate-Nitrite
Aqueous	EPA 365.2/SM 4500-P E-2011/EPA 365.3	Colorimetric	Phosphorous, Total
Aqueous	EPA 376.1/SM 4500-S2 F-2011	Titrimetric	Sulfide
Aqueous	EPA 415.1/EPA 9060A	Analyzer	TOC
Aqueous	EPA 1664A/EPA 9070A	Gravimetric	HEM/Oil And Grease
Aqueous	EPA 9095B	Gravimetric	Paint Filter Liquids Test
Aqueous	HASL 300 Sr01/ASTM D5811	Gas Proportional Counting	Strontium 89
Aqueous	HASL 300 Sr02/ASTM D5811	Gas Proportional Counting	Strontium 90
Aqueous	RSK-175	GC/FID	Ethane
Aqueous	RSK-175	GC/FID	Ethene
Aqueous	RSK-175	GC/FID	Methane
Aqueous	RSK-175	GC/FID	Propane
Aqueous	SM 2320B-2011/EPA 310.1	Titration	Alkalinity
Aqueous	SM 2510B-2011/EPA 120.1/EPA 9050A	ISE	Conductivity
Aqueous	SM 3500-CR-B-2011	Colorimetric	Hexavalent Chromium
Solid	EPA 365.2/EPA 365.3/ SM 4500-PE-2011	Colorimetric	Phosphorus, Total
Solid	EPA 9045D	ISE	pH
Solid	EPA 7471B	CVAA	Mercury
Solid	EPA 9013/EPA 9014	Titrimetric	Cyanide
Solid	EPA 9071B	Gravimetric	HEM/Oil And Grease
Solid	HASL 300 Sr01/ASTM D5811	Gas Proportional Counting	Strontium 89
Solid	HASL 300 Sr02/ASTM D5811	Gas Proportional Counting	Strontium 90
Solid	SW846 7.3.3.2/SW846 7.3.4.2	Wet Chemistry	Reactivity
Aqueous/Air/ Solid	SM 7500-Rn/ASTM D 5072-92	Liquid Scintillation Counting	Rn-222



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Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 906.0	Liquid Scintillation Counting	Pu241
Aqueous/Solid	Eichrom NiW-01	Liquid Scintillation Counting	Nickle-63
Aqueous/Solid	DOE EML Fe-01-RC	Liquid Scintillation Counting	Iron-55
Aqueous/Solid	DOE RP550/DOE RS551	Liquid Scintillation Counting	Technicium-99
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Bromide
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Chloride
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Fluoride
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Nitrate as N
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Nitrite as N
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Orthophosphate as P
Aqueous/Solid	EPA 300.0/EPA 9056A	Ion Chromatography	Sulfate
Aqueous/Solid	EPA 900/EPA 9310	Gas Proportional Counting	Gross Alpha
Aqueous/Solid	EPA 900/EPA 9310	Gas Proportional Counting	Gross Beta
Aqueous/Solid	EPA 901.1/HASL 300 Ga-01-R/ EML 4.5.2.3	Gamma Spec	Gamma Emitters (Range from 59 keV to 1 836 keV)
Aqueous/Solid	EPA 902.0/ALS SOP 753	Gas Proportional Counting	Iodine-129
Aqueous/Solid	EPA 903.0/EPA 9315	Gas Proportional Counting	Radium-226
Aqueous/Solid	EPA 903.0/EPA 9315	Gas Proportional Counting	Total Radium
Aqueous/Solid	EPA 903.1/SM 7500-Ra C	Emanation	Radium 226
Aqueous/Solid	EPA 904/EPA 9320	Gas Proportional Counting	Ra228
Aqueous/Solid	EPA 906.0/SM 7500 3H	Liquid Scintillation Counting	Tritium
Aqueous/Solid	EPA 1010A	Flash Point	Ignitability
Aqueous/Solid	EPA 6010D	ICP	Aluminum
Aqueous/Solid	EPA 6010D	ICP	Antimony
Aqueous/Solid	EPA 6010D	ICP	Arsenic
Aqueous/Solid	EPA 6010D	ICP	Barium
Aqueous/Solid	EPA 6010D	ICP	Beryllium
Aqueous/Solid	EPA 6010D	ICP	Bismuth
Aqueous/Solid	EPA 6010D	ICP	Boron
Aqueous/Solid	EPA 6010D	ICP	Cadmium



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Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 6010D	ICP	Calcium
Aqueous/Solid	EPA 6010D	ICP	Chromium
Aqueous/Solid	EPA 6010D	ICP	Cobalt
Aqueous/Solid	EPA 6010D	ICP	Copper
Aqueous/Solid	EPA 6010D	ICP	Iron
Aqueous/Solid	EPA 6010D	ICP	Lead
Aqueous/Solid	EPA 6010D	ICP	Lithium
Aqueous/Solid	EPA 6010D	ICP	Magnesium
Aqueous/Solid	EPA 6010D	ICP	Manganese
Aqueous/Solid	EPA 6010D	ICP	Molybdenum
Aqueous/Solid	EPA 6010D	ICP	Nickel
Aqueous/Solid	EPA 6010D	ICP	Potassium
Aqueous/Solid	EPA 6010D	ICP	Selenium
Aqueous/Solid	EPA 6010D	ICP	Silicon
Aqueous/Solid	EPA 6010D	ICP	Silicon as SiO ₂
Aqueous/Solid	EPA 6010D	ICP	Silver
Aqueous/Solid	EPA 6010D	ICP	Sodium
Aqueous/Solid	EPA 6010D	ICP	Strontium
Aqueous/Solid	EPA 6010D	ICP	Sulfur
Aqueous/Solid	EPA 6010D	ICP	Thallium
Aqueous/Solid	EPA 6010D	ICP	Tin
Aqueous/Solid	EPA 6010D	ICP	Titanium
Aqueous/Solid	EPA 6010D	ICP	Uranium
Aqueous/Solid	EPA 6010D	ICP	Vanadium
Aqueous/Solid	EPA 6010D	ICP	Zinc
Aqueous/Solid	EPA 6020B	ICP/MS	Aluminum
Aqueous/Solid	EPA 6020B	ICP/MS	Antimony
Aqueous/Solid	EPA 6020B	ICP/MS	Arsenic
Aqueous/Solid	EPA 6020B	ICP/MS	Barium
Aqueous/Solid	EPA 6020B	ICP/MS	Beryllium
Aqueous/Solid	EPA 6020B	ICP/MS	Boron
Aqueous/Solid	EPA 6020B	ICP/MS	Cadmium
Aqueous/Solid	EPA 6020B	ICP/MS	Calcium
Aqueous/Solid	EPA 6020B	ICP/MS	Cerium
Aqueous/Solid	EPA 6020B	ICP/MS	Chromium
Aqueous/Solid	EPA 6020B	ICP/MS	Cobalt



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Aqueous/Solid	EPA 6020B	ICP/MS	Copper
Aqueous/Solid	EPA 6020B	ICP/MS	Iron
Aqueous/Solid	EPA 6020B	ICP/MS	Lead
Aqueous/Solid	EPA 6020B	ICP/MS	Lithium
Aqueous/Solid	EPA 6020B	ICP/MS	Magnesium
Aqueous/Solid	EPA 6020B	ICP/MS	Manganese
Aqueous/Solid	EPA 6020B	ICP/MS	Molybdenum
Aqueous/Solid	EPA 6020B	ICP/MS	Nickel
Aqueous/Solid	EPA 6020B	ICP/MS	Potassium
Aqueous/Solid	EPA 6020B	ICP/MS	Selenium
Aqueous/Solid	EPA 6020B	ICP/MS	Silver
Aqueous/Solid	EPA 6020B	ICP/MS	Sodium
Aqueous/Solid	EPA 6020B	ICP/MS	Strontium
Aqueous/Solid	EPA 6020B	ICP/MS	Thallium
Aqueous/Solid	EPA 6020B	ICP/MS	Thorium
Aqueous/Solid	EPA 6020B	ICP/MS	Tin
Aqueous/Solid	EPA 6020B	ICP/MS	Titanium
Aqueous/Solid	EPA 6020B	ICP/MS	U-235
Aqueous/Solid	EPA 6020B	ICP/MS	U-238
Aqueous/Solid	EPA 6020B	ICP/MS	Uranium
Aqueous/Solid	EPA 6020B	ICP/MS	Vanadium
Aqueous/Solid	EPA 6020B	ICP/MS	Zinc
Aqueous/Solid	EPA 7196A	UV-Vis	Hexavalent Chromium (CrVI)
Aqueous/Solid	EPA 8015D	GC/FID	DRO
Aqueous/Solid	EPA 8015D	GC/FID	GRO
Aqueous/Solid	EPA 8081A	GC/ECD	4,4'-DDD
Aqueous/Solid	EPA 8081A	GC/ECD	4,4'-DDE
Aqueous/Solid	EPA 8081A	GC/ECD	4,4'-DDT
Aqueous/Solid	EPA 8081A	GC/ECD	Aldrin
Aqueous/Solid	EPA 8081A	GC/ECD	Alpha-BHC
Aqueous/Solid	EPA 8081A	GC/ECD	Alpha-Chlordane
Aqueous/Solid	EPA 8081A	GC/ECD	Beta-BHC
Aqueous/Solid	EPA 8081A	GC/ECD	Chlordane
Aqueous/Solid	EPA 8081A	GC/ECD	Delta-BHC



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Aqueous/Solid	EPA 8081A	GC/ECD	Dieldrin
Aqueous/Solid	EPA 8081A	GC/ECD	Endosulfan I
Aqueous/Solid	EPA 8081A	GC/ECD	Endosulfan II
Aqueous/Solid	EPA 8081A	GC/ECD	Endosulfan Sulfate
Aqueous/Solid	EPA 8081A	GC/ECD	Endrin
Aqueous/Solid	EPA 8081A	GC/ECD	Endrin Aldehyde
Aqueous/Solid	EPA 8081A	GC/ECD	Endrin Ketone
Aqueous/Solid	EPA 8081A	GC/ECD	Gamma-BHC (Lindane)
Aqueous/Solid	EPA 8081A	GC/ECD	Gamma-Chlordane
Aqueous/Solid	EPA 8081A	GC/ECD	Heptachlor
Aqueous/Solid	EPA 8081A	GC/ECD	Heptachlor Epoxide
Aqueous/Solid	EPA 8081A	GC/ECD	Methoxychlor
Aqueous/Solid	EPA 8081A	GC/ECD	Toxaphene
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
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 8141A	GC/FPD	Chlorpyrifos
Aqueous/Solid	EPA 8141A	GC/FPD	Coumaphos
Aqueous/Solid	EPA 8141A	GC/FPD	Demeton O + S
Aqueous/Solid	EPA 8141A	GC/FPD	Diazinon
Aqueous/Solid	EPA 8141A	GC/FPD	Dichlorvos
Aqueous/Solid	EPA 8141A	GC/FPD	Disulfoton
Aqueous/Solid	EPA 8141A	GC/FPD	Ethoprop
Aqueous/Solid	EPA 8141A	GC/FPD	Fensulfothion
Aqueous/Solid	EPA 8141A	GC/FPD	Fenthion
Aqueous/Solid	EPA 8141A	GC/FPD	Malathion
Aqueous/Solid	EPA 8141A	GC/FPD	Merphos A + B
Aqueous/Solid	EPA 8141A	GC/FPD	Methyl Azinphos
Aqueous/Solid	EPA 8141A	GC/FPD	Methyl Parathion
Aqueous/Solid	EPA 8141A	GC/FPD	Mevinphos



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Aqueous/Solid	EPA 8141A	GC/FPD	Naled
Aqueous/Solid	EPA 8141A	GC/FPD	Phorate
Aqueous/Solid	EPA 8141A	GC/FPD	Ronnel
Aqueous/Solid	EPA 8141A	GC/FPD	Sulprofos
Aqueous/Solid	EPA 8141A	GC/FPD	Tetrachlorvinphos
Aqueous/Solid	EPA 8141A	GC/FPD	Tokuthion
Aqueous/Solid	EPA 8141A	GC/FPD	Trichloronate
Aqueous/Solid	EPA 8141A	GC/FPD	Tributylphosphate
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
Aqueous/Solid	EPA 8260C	GC/MS	1,1,1,2-Tetrachloroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,1,1-Trichloroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,1,2,2-Tetrachloroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,1,2-Trichloro-1,2,2-Trifluoroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,1,2-Trichloroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,1-Dichloroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,1-Dichloroethene
Aqueous/Solid	EPA 8260C	GC/MS	1,1-Dichloropropene
Aqueous/Solid	EPA 8260C	GC/MS	1,2,3-Trichlorobenzene
Aqueous/Solid	EPA 8260C	GC/MS	1,2,3-Trichloropropane
Aqueous/Solid	EPA 8260C	GC/MS	1,2,4-Trichlorobenzene
Aqueous/Solid	EPA 8260C	GC/MS	1,2,4-Trimethylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	1,2-Dibromo-3-Chloropropane
Aqueous/Solid	EPA 8260C	GC/MS	1,2-Dibromoethane
Aqueous/Solid	EPA 8260C	GC/MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8260C	GC/MS	1,2-Dichloroethane
Aqueous/Solid	EPA 8260C	GC/MS	1,2-Dichloroethene (Total)
Aqueous/Solid	EPA 8260C	GC/MS	1,2-Dichloropropane



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Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8260C	GC/MS	1,3,5-Trimethylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8260C	GC/MS	1,3-Dichloropropane
Aqueous/Solid	EPA 8260C	GC/MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8260C	GC/MS	1-Chlorohexane
Aqueous/Solid	EPA 8260C	GC/MS	2,2-Dichloropropane
Aqueous/Solid	EPA 8260C	GC/MS	2-Butanone
Aqueous/Solid	EPA 8260C	GC/MS	2-Chlorotoluene
Aqueous/Solid	EPA 8260C	GC/MS	2-Hexanone
Aqueous/Solid	EPA 8260C	GC/MS	4-Chlorotoluene
Aqueous/Solid	EPA 8260C	GC/MS	4-Methyl-2-Pentanone
Aqueous/Solid	EPA 8260C	GC/MS	Acetone
Aqueous/Solid	EPA 8260C	GC/MS	Benzene
Aqueous/Solid	EPA 8260C	GC/MS	Bromobenzene
Aqueous/Solid	EPA 8260C	GC/MS	Bromochloromethane
Aqueous/Solid	EPA 8260C	GC/MS	Bromodichloromethane
Aqueous/Solid	EPA 8260C	GC/MS	Bromoform
Aqueous/Solid	EPA 8260C	GC/MS	Bromomethane
Aqueous/Solid	EPA 8260C	GC/MS	Carbon Disulfide
Aqueous/Solid	EPA 8260C	GC/MS	Carbon Tetrachloride
Aqueous/Solid	EPA 8260C	GC/MS	Chlorobenzene
Aqueous/Solid	EPA 8260C	GC/MS	Chloroethane
Aqueous/Solid	EPA 8260C	GC/MS	Chloroform
Aqueous/Solid	EPA 8260C	GC/MS	Chloromethane
Aqueous/Solid	EPA 8260C	GC/MS	Cis-1,2-Dichloroethene
Aqueous/Solid	EPA 8260C	GC/MS	Cis-1,3-Dichloropropene
Aqueous/Solid	EPA 8260C	GC/MS	Cyclohexane
Aqueous/Solid	EPA 8260C	GC/MS	Dibromochloromethane
Aqueous/Solid	EPA 8260C	GC/MS	Dibromomethane
Aqueous/Solid	EPA 8260C	GC/MS	Dichlorodifluoromethane



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Aqueous/Solid	EPA 8260C	GC/MS	Di-isopropylether (DIPE) (Isopropyl Ether)
Aqueous/Solid	EPA 8260C	GC/MS	Ethylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8260C	GC/MS	Iodomethane
Aqueous/Solid	EPA 8260C	GC/MS	Isopropylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	M+P-Xylene
Aqueous/Solid	EPA 8260C	GC/MS	Methyl acetate
Aqueous/Solid	EPA 8260C	GC/MS	Methyl acrylate
Aqueous/Solid	EPA 8260C	GC/MS	Methylcyclohexane
Aqueous/Solid	EPA 8260C	GC/MS	Methyl Tertiary Butyl Ether
Aqueous/Solid	EPA 8260C	GC/MS	Methylene Chloride
Aqueous/Solid	EPA 8260C	GC/MS	Naphthalene
Aqueous/Solid	EPA 8260C	GC/MS	N-Butylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	n-Hexane
Aqueous/Solid	EPA 8260C	GC/MS	N-Propylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	O-Xylene
Aqueous/Solid	EPA 8260C	GC/MS	P-Isopropyltoluene
Aqueous/Solid	EPA 8260C	GC/MS	Sec-Butylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	Styrene
Aqueous/Solid	EPA 8260C	GC/MS	T-amylmethylether (TAME)
Aqueous/Solid	EPA 8260C	GC/MS	tert-Butyl alcohol
Aqueous/Solid	EPA 8260C	GC/MS	Tert-Butylbenzene
Aqueous/Solid	EPA 8260C	GC/MS	Tetrachloroethene
Aqueous/Solid	EPA 8260C	GC/MS	Toluene
Aqueous/Solid	EPA 8260C	GC/MS	Trans-1,2-Dichloroethene
Aqueous/Solid	EPA 8260C	GC/MS	Trans-1,3-Dichloropropene
Aqueous/Solid	EPA 8260C	GC/MS	Trichloroethene
Aqueous/Solid	EPA 8260C	GC/MS	Trichlorofluoromethane
Aqueous/Solid	EPA 8260C	GC/MS	Vinyl Acetate
Aqueous/Solid	EPA 8260C	GC/MS	Vinyl Chloride
Aqueous/Solid	EPA 8270D	GC/MS	1-methylnaphthalene
Aqueous/Solid	EPA 8270D	GC/MS	1,2,4-Trichlorobenzene



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Aqueous/Solid	EPA 8270D	GC/MS	1,2-Dichlorobenzene
Aqueous/Solid	EPA 8270D	GC/MS	1,3-Dichlorobenzene
Aqueous/Solid	EPA 8270D	GC/MS	1,4-Dichlorobenzene
Aqueous/Solid	EPA 8270D	GC/MS	1,4-Dioxane
Aqueous/Solid	EPA 8270D	GC/MS	2,3,4,6-Tetrachlorophenol
Aqueous/Solid	EPA 8270D	GC/MS	2,4,5-Trichlorophenol
Aqueous/Solid	EPA 8270D	GC/MS	2,4,6-Trichlorophenol
Aqueous/Solid	EPA 8270D	GC/MS	2,4-Dichlorophenol
Aqueous/Solid	EPA 8270D	GC/MS	2,4-Dimethylphenol
Aqueous/Solid	EPA 8270D	GC/MS	2,4-Dinitrophenol
Aqueous/Solid	EPA 8270D	GC/MS	2,4-Dinitrotoluene
Aqueous/Solid	EPA 8270D	GC/MS	2,6-Dinitrotoluene
Aqueous/Solid	EPA 8270D	GC/MS	2-Chloronaphthalene
Aqueous/Solid	EPA 8270D	GC/MS	2-Chlorophenol
Aqueous/Solid	EPA 8270D	GC/MS	2-Methylnaphthalene
Aqueous/Solid	EPA 8270D	GC/MS	2-Methylphenol
Aqueous/Solid	EPA 8270D	GC/MS	2-Nitroaniline
Aqueous/Solid	EPA 8270D	GC/MS	2-Nitrophenol
Aqueous/Solid	EPA 8270D	GC/MS	3-Nitroaniline
Aqueous/Solid	EPA 8270D	GC/MS	3,3'-Dichlorobenzidine
Aqueous/Solid	EPA 8270D	GC/MS	3+4-Methylphenol
Aqueous/Solid	EPA 8270D	GC/MS	4,6-Dinitro-2-Methylphenol
Aqueous/Solid	EPA 8270D	GC/MS	4-Bromophenyl Phenyl Ether
Aqueous/Solid	EPA 8270D	GC/MS	4-Chloro-3-Methylphenol
Aqueous/Solid	EPA 8270D	GC/MS	4-Chloroaniline
Aqueous/Solid	EPA 8270D	GC/MS	4-Chlorophenyl Phenyl Ether
Aqueous/Solid	EPA 8270D	GC/MS	4-Nitroaniline
Aqueous/Solid	EPA 8270D	GC/MS	4-Nitrophenol
Aqueous/Solid	EPA 8270D	GC/MS	Acenaphthene
Aqueous/Solid	EPA 8270D	GC/MS	Acenaphthylene
Aqueous/Solid	EPA 8270D	GC/MS	Aniline
Aqueous/Solid	EPA 8270D	GC/MS	Anthracene
Aqueous/Solid	EPA 8270D	GC/MS	Azobenzene
Aqueous/Solid	EPA 8270D	GC/MS	Benzo(A)Anthracene
Aqueous/Solid	EPA 8270D	GC/MS	Benzo(A)Pyrene



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Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8270D	GC/MS	Benzo(B)Fluoranthene
Aqueous/Solid	EPA 8270D	GC/MS	Benzo(G,H,I)Perylene
Aqueous/Solid	EPA 8270D	GC/MS	Benzo(K)Fluoranthene
Aqueous/Solid	EPA 8270D	GC/MS	Benzoic Acid
Aqueous/Solid	EPA 8270D	GC/MS	Benzyl Alcohol
Aqueous/Solid	EPA 8270D	GC/MS	Bis(2-Chloroethoxy)Methane
Aqueous/Solid	EPA 8270D	GC/MS	2,2'-Oxybis(1chloropropane)
Aqueous/Solid	EPA 8270D	GC/MS	Bis (2-Chloroethyl) ether
Aqueous/Solid	EPA 8270D	GC/MS	bis(2-Ethylhexyl)adipate
Aqueous/Solid	EPA 8270D	GC/MS	Bis(2-Ethylhexyl)Phthalate
Aqueous/Solid	EPA 8270D	GC/MS	Butyl Benzyl Phthalate
Aqueous/Solid	EPA 8270D	GC/MS	Carbazole
Aqueous/Solid	EPA 8270D	GC/MS	Chrysene
Aqueous/Solid	EPA 8270D	GC/MS	Dibenzo(A,H)Anthracene
Aqueous/Solid	EPA 8270D	GC/MS	Dibenzofuran
Aqueous/Solid	EPA 8270D	GC/MS	Diethyl Phthalate
Aqueous/Solid	EPA 8270D	GC/MS	Dimethyl Phthalate
Aqueous/Solid	EPA 8270D	GC/MS	Di-N-Butyl Phthalate
Aqueous/Solid	EPA 8270D	GC/MS	Di-N-Octyl Phthalate
Aqueous/Solid	EPA 8270D	GC/MS	Fluoranthene
Aqueous/Solid	EPA 8270D	GC/MS	Fluorene
Aqueous/Solid	EPA 8270D	GC/MS	Hexachlorobenzene
Aqueous/Solid	EPA 8270D	GC/MS	Hexachlorobutadiene
Aqueous/Solid	EPA 8270D	GC/MS	Hexachlorocyclopentadiene
Aqueous/Solid	EPA 8270D	GC/MS	Hexachloroethane
Aqueous/Solid	EPA 8270D	GC/MS	Indeno(1,2,3-Cd)Pyrene
Aqueous/Solid	EPA 8270D	GC/MS	Isophorone
Aqueous/Solid	EPA 8270D	GC/MS	Naphthalene
Aqueous/Solid	EPA 8270D	GC/MS	Nitrobenzene
Aqueous/Solid	EPA 8270D	GC/MS	N-Nitrosodimethylamine
Aqueous/Solid	EPA 8270D	GC/MS	N-Nitroso-Di-N-Propylamine
Aqueous/Solid	EPA 8270D	GC/MS	N-Nitrosodiphenylamine
Aqueous/Solid	EPA 8270D	GC/MS	Pentachlorophenol
Aqueous/Solid	EPA 8270D	GC/MS	Phenanthrene
Aqueous/Solid	EPA 8270D	GC/MS	Phenol
Aqueous/Solid	EPA 8270D	GC/MS	Pyrene



Certificate of Accreditation: Supplement

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ALS Environmental

225 Commerce Drive, Fort Collins, CO 80524
Contact Name: Joel Nolte Phone: 801-266-7700

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

Matrix	Standard/Method	Technology	Analyte
Aqueous/Solid	EPA 8270D	GC/MS	Pyridine
Aqueous/Solid	EERF C-01	Liquid Scintillation Counting	Carbon-14
Aqueous/Solid	HASL 300 AM-04-RC/ASTM D3972	Alpha-Spec	Am-241
Aqueous/Solid	HASL 300 AM-04-RC/ASTM D3972	Alpha-Spec	Cm-242
Aqueous/Solid	HASL 300AM-04-RC/ASTM D3972	Alpha-Spec	Cm-244
Aqueous/Solid	HASL 300 EMSL/LV p.33/ASTM D3972	Alpha-Spec	Np-237
Aqueous/Solid	HASL 300 Po-01-RC/ASTM D3972	Alpha-Spec	Po-210
Aqueous/Solid	HASL EMSL LV p.33/ASTM D3972	Alpha-Spec	Pu-238
Aqueous/Solid	HASL EMSL LV p.33/ASTM D3972	Alpha-Spec	Pu-239
Aqueous/Solid	HASL EMSL LV p.33/ASTM D3972	Alpha-Spec	Pu-239/240
Aqueous/Solid	HASL 300 Ra-02-RC/ASTM D3972	Alpha-Spec	Ra-226
Aqueous/Solid	HASL EMSL LV p.33/ASTM D3972	Alpha-Spec	Th-228
Aqueous/Solid	HASL EMSL LV p.33/ASTM D3972	Alpha-Spec	Th-230
Aqueous/Solid	HASL EMSL LV p.33/ASTM D3972	Alpha-Spec	Th-232
Aqueous/Solid	HASL 300 U-02-RC/ASTM D3972	Alpha-Spec	U-233/234
Aqueous/Solid	HASL 300 U-02-RC/ASTM D3972	Alpha-Spec	U-234
Aqueous/Solid	HASL 300 U-02-RC/ASTM D3972	Alpha-Spec	U-235
Aqueous/Solid	HASL 300 U-02-RC/ASTM D3972	Alpha-Spec	U-235/236
Aqueous/Solid	HASL 300 U-02-RC/ASTM D3972	Alpha-Spec	U-238
Aqueous/Solid	Horwitz, Chiariza, Dietz 1992	Liquid Scintillation Counting	Lead-210



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Matrix	Standard/Method	Technology	Analyte
Aqueous	EPA 3005A	Preparation	Acid Digestion Total Recoverable or Dissolved Metals
Aqueous	EPA 3010A	Preparation	Acid Digestion for Total Metals
Aqueous	EPA 3511	Preparation	Microextraction
Aqueous	EPA 3520C	Preparation	Continuous Liquid-Liquid Extraction
Aqueous	EPA 5030C	Purge and Trap	Purge-and-Trap for Aqueous Samples
Aqueous	EPA 9010C	Preparation	Cyanide (Total)
Solid	EPA 3050B	Preparation	Acid Digestion Of Sediments, Sludges And Soils
Solid	EPA 3540C	Preparation	Soxhlet Extraction
Solid	EPA 3580A	Preparation	Waste Dilution
Solid	EPA 5035A	Purge and Trap	Purge-And-Trap And Extraction For Volatile Organics
Solid	EPA 3546	Preparation	Microwave Extraction
Solid	EPA 9013	Preparation	Cyanide
Aqueous/Solid	EPA 1311	Leaching Procedure	Toxicity Characteristic Leaching Procedure
Aqueous/Solid	EPA 3620C	Cleanup Procedure	Florisil Cleanup
Aqueous/Solid	EPA 3630C	Cleanup Procedure	Silica Gel Cleanup
Aqueous/Solid	EPA 3640A	Cleanup Procedure	Gel Permeation Cleanup
Aqueous/Solid	EPA 3660B	Cleanup Procedure	Sulfur Cleanup
Aqueous/Solid	EPA 3665A	Cleanup Procedure	Sulfuric Acid Cleanup