



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ALS Environmental
960 West Levoy Drive, Salt Lake City, UT 84123

(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 DOE Quality Systems Manual for Environmental Laboratories Version 5.3, May 2019 and is accredited in accordance with the:

United States Department of Energy Consolidated Audit Program-Accreditation Program (DOECAP-AP)

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):

Industrial Hygiene 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/Operations Manager

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

Initial Accreditation Date:

December 22, 2018

Issue Date:

January 27, 2020

Expiration Date:

January 31, 2022

Accreditation No.:

95378

Certificate No.:

L20-59

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 17025:2005 and DOECAP-AP

ALS Environmental

960 West Levoy Drive, Salt Lake City, UT 84123
Contact Name: Steven Sagers Phone: 801-266-7700

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

Matrix	Standard/Method	Technology	Analyte
Ambient and Indoor Air	3M 3500	Gas Chromatography (Diffusive Samplers)	IH-AN-Diffusive
Ambient and Indoor Air	3M 3520	Gas Chromatography (Diffusive Samplers)	IH-AN-Diffusive
Ambient and Indoor Air	EPA TO-15 – Canisters	GC/MS	Organic Volatile Compounds
Ambient and Indoor Air	EPA TO-17 – Sorbent Tubes	GC/MS	Toxic Organic Compounds
Ambient and Indoor Air	EPA TO-I IA - ACN	HPLC/UV	Aldehydes and Ketones
Ambient and Indoor Air	IH-AN-014	GC/MS	Toxic Organic Compounds
Ambient and Indoor Air	IH-AN-015	GC/MS	Toxic Organic Compounds
Ambient and Indoor Air	IH-AN-1613	GC/MS	Toxic Organic Compounds
Ambient and Indoor Air	IH-AN-HPLC-UV-MS	LC/MS	ALS Proprietary
Ambient and Indoor Air	IH-AN-N5528	GC/MS	Toxic Organic Compounds
Ambient and Indoor Air	IN-AN-GC/MS	GC/MS	Toxic Organic Compounds
Ambient and Indoor Air	IN-AN-Solvent Panel	GC/MS	ALS Proprietary
Ambient and Indoor Air	GC-MS Amines Panels	GC/MS	Amines
Ambient and Indoor Air	LC-MS Amines Panels	LC/MS	Amines
Ambient and Indoor Air	NIOSH 0500	Gravimetric	Particulates
Ambient and Indoor Air	NIOSH 0500 Modified	Gravimetric	Particulates
Ambient and Indoor Air	NIOSH 0600	Gravimetric	Particulates
Ambient and Indoor Air	NIOSH 0600 Modified	Gravimetric	Particulates
Ambient and Indoor Air	NIOSH 1003 – CS2	GC/FID	Halogenated Hydrocarbons
Ambient and Indoor Air	NIOSH 1005 – CS2	GC/FID	Methylene Chloride
Ambient and Indoor Air	NIOSH 1024 – MeCl2	GC/FID	1,3-Butadiene
Ambient and Indoor Air	NIOSH 1300 – CS2	GC/FID	Ketones
Ambient and Indoor Air	NIOSH 1400 – CS2	GC/FID	Alcohols
Ambient and Indoor Air	NIOSH 1401 – CS2	GC/FID	Alcohols
Ambient and Indoor Air	NIOSH 1403 – MeCl2	GC/FID	Alcohols
Ambient and Indoor Air	NIOSH 1500 – CS2	GC/FID	Hydrocarbons (36-216 degC)
Ambient and Indoor Air	NIOSH 1501 – CS2	GC/FID	Aromatic Hydrocarbons
Ambient and Indoor Air	NIOSH 1550 – CS2	GC/FID	Naphthas
Ambient and Indoor Air	NIOSH 1604 – CS2	GC/FID	Acrylonitrile
Ambient and Indoor Air	NIOSH 1606 – MECL2	GC/FID	Acetonitrile
Ambient and Indoor Air	NIOSH 1613 – MECL2	GC/MS	Pyridine
Ambient and Indoor Air	NIOSH 2000 – h20	GC/FID	Methanol
Ambient and Indoor Air	NIOSH 2016 – ACN	HPLC/UV	Formaldehyde
Ambient and Indoor Air	NIOSH 2016 Modified	HPLC/UV	Formaldehyde
Ambient and Indoor Air	NIOSH 2500 – CS2	GC/FID	Methyl Ethyl Ketone (MEK)



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Ambient and Indoor Air	NIOSH 2522 Modified	LC/MS	Nitrosamines
Ambient and Indoor Air	NIOSH 2522 Modified	LC/MS/MS	Nitrosamines
Ambient and Indoor Air	NIOSH 2539 – Toluene	GC/FID	Aldehyde
Ambient and Indoor Air	NIOSH 2541 – Toluene	GC/FID	Formaldehyde
Ambient and Indoor Air	NIOSH 5000	Gravimetric	Particulates
Ambient and Indoor Air	NIOSH 5040	Thermo-optical Analysis (TOA)	Elemental Carbon / Organic Carbon
Ambient and Indoor Air	NIOSH 5503	GC/ECD	PCBs
Ambient and Indoor Air	NIOSH 6005 – Na ₂ CO ₃	Ion Chromatography	Iodine
Ambient and Indoor Air	NIOSH 6007 Modified	ICP/AES	Metals
Ambient and Indoor Air	NIOSH 6007 Modified	ICP/MS	Nickel Carbonyl
Ambient and Indoor Air	NIOSH 6009 Modified	CVAA	Mercury
Ambient and Indoor Air	NIOSH 6010 Modified	UV/VIS (Colorimetric)	Hydrogen Cyanide
Ambient and Indoor Air	NIOSH 6011 Modified – Na ₂ SO ₃	Ion Chromatography	Bromine, Chlorine
Ambient and Indoor Air	NIOSH 6014	UV/VIS (Colorimetric)	Nitric Oxide, Nitrogen Dioxide
Ambient and Indoor Air	NIOSH 6015 Modified	UV/VIS (Colorimetric)	Ammonia
Ambient and Indoor Air	NIOSH 7029 Modified	ICP/AES	Metals
Ambient and Indoor Air	NIOSH 7029 Modified	ICP/MS	Copper Dust and Fume
Ambient and Indoor Air	NIOSH 7300 Modified	ICP/AES	Metals
Ambient and Indoor Air	NIOSH 7300 Modified	ICP/AES – HNO ₃ /HClO ₃	ELEMENTS (metals)
Ambient and Indoor Air	NIOSH 7300 Modified	ICP/MS	Metals
Ambient and Indoor Air	NIOSH 7300 Modified	ICP/MS – HNO ₃ /HClO ₃	ELEMENTS (metals)
Ambient and Indoor Air	NIOSH 7303 Modified	ICP/AES	Metals
Ambient and Indoor Air	NIOSH 7303 Modified	ICP/AES – Hot Block	ELEMENTS (metals)
Ambient and Indoor Air	NIOSH 7303 Modified	ICP/MS	Metals (Hot Block HCl/HNO ₃ Digestion)
Ambient and Indoor Air	NIOSH 7303 Modified	ICP/MS – Hot Block	ELEMENTS (metals)
Ambient and Indoor Air	NIOSH 7400 Modified	Phase Contrast Microscopy (PCM)	Asbestos/Fiber Microscopy Core
Ambient and Indoor Air	NIOSH 7401 Modified	Titrimetric	Alkaline Dusts
Ambient and Indoor Air	NIOSH 7500 Modified	X-ray Diffraction (XRD)	Silica (Crystalline)
Ambient and Indoor Air	NIOSH 7607	Ion Chromatography	Chloramines
Ambient and Indoor Air	NIOSH 7901 Modified	ICP/AES	Metals
Ambient and Indoor Air	NIOSH 7902 (NaOH)	Ion-selective electrode (ISE)	Fluorides
Ambient and Indoor Air	NIOSH 7903 – NaHCO ₃	Ion Chromatography	Inorganic Acids



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Ambient and Indoor Air	NIOSH 9002 Modified	Polarized Light Microscopy (PLM)	Asbestos/Fiber Microscopy Core
Ambient and Indoor Air	NIOSH 9102 Modified	ICP/AES	Metals
Ambient and Indoor Air	NIOSH 9102 Modified	ICP/MS	Metals (Wipes)
Ambient and Indoor Air	NIOSH 9103 Modified	CVAA	Mercury
Ambient and Indoor Air	OSHA 1007 Modified	HPLC/UV	Formaldehyde
Ambient and Indoor Air	OSHA 34 – THF	HPLC/UV	Dimethylamine
Ambient and Indoor Air	OSHA 34 – THF Modified	HPLC/UV	Dimethylamine
Ambient and Indoor Air	OSHA 36	HPLC/UV	Ethylamine
Ambient and Indoor Air	OSHA 36 Modified	HPLC/UV	Ethylamine
Ambient and Indoor Air	OSHA 40	HPLC/UV	Methylamine
Ambient and Indoor Air	OSHA 40 Modified	HPLC/UV	Methylamine
Ambient and Indoor Air	OSHA 42	HPLC/UV	Isocyanates
Ambient and Indoor Air	OSHA 42/47 Modified	LC/MS	Di-isocyanate
Ambient and Indoor Air	OSHA 44 Modified	GC/ECD	2,4-DNT, 2,6-DNT, 2,4,6-TNT
Ambient and Indoor Air	OSHA 47	HPLC/UV	Isocyanates
Ambient and Indoor Air	OSHA ID 125G Modified	ICP/MS	Metals (Particulates)
Ambient and Indoor Air	OSHA ID 142 Modified	X-ray Diffraction (XRD)	Silica (Crystalline), Quartz, Cristobalite
Ambient and Indoor Air	OSHA ID 145 Modified	CVAA	Mercury
Ambient and Indoor Air	OSHA ID 206 Modified	ICP/AES	Metals
Ambient and Indoor Air	OSHA ID 206 Modified	ICP/MS	Metals
Ambient and Indoor Air	OSHA ID 215 NA2CO3	HPLC/UV	Hexavalent Chromium
Ambient and Indoor Air	OSHA ID 125G Modified	ICP/AES	Metals
Ambient and Indoor Air	OSHA ID 165SG	Ion Chromatography	Acid Mist
Ambient and Indoor Air	OSHA ID 200 – H2O2	Ion Chromatography	Sulfur Dioxide
Ambient and Indoor Air	OSHA ID 214	Ion Chromatography	Ozone
Ambient and Indoor Air	SKC	Gas Chromatography (Diffusive Samplers)	IH-AN-Diffusive

- * “Accreditation is granted through a technology based flexible scope criteria. Additional methods other than listed above may fall under the accreditation of the laboratory. A complete listing of method capabilities can be derived from the laboratory upon request.”