



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

***ALS Environmental - Salt Lake City
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 U.S.
Department of Energy (DOE) Consolidated Audit Program (DOECAP) requirements identified within the DoD/DOE Quality
Systems Manual (DoD/DOE QSM) Version 5.4 October 2021 and is accredited in accordance with the:*

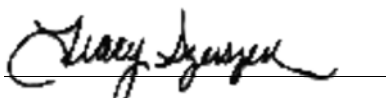
United States Department of Energy Consolidated Audit Program-Accreditation Program (DOECAP-AP)

This accreditation demonstrates the technical competence for the 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 activities shall only be made from the 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 Szorszen
President

Initial Accreditation Date:

December 22, 2018

Issue Date:

January 08, 2024

Expiration Date

January 31, 2026

Accreditation No:

95378

Certificate No:

L24-29

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

ALS Environmental - Salt Lake City

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

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

Code

Asbestos

NIOSH 7400 MOD by Phase Contrast Microscopy (PCM)	90018001
Air	
Asbestos/Fiber Microscopy Core	1520
NIOSH 9002 MOD by Polarized Light Microscopy (PLM)	90018158
Air	
Asbestos/Fiber Microscopy Core	1520

General Chemistry

NIOSH 0500 MOD by Gravimetry	90012081
Air	
Gravimetric Particulates	NC
NIOSH 0600 MOD by Gravimetry	90012092
Air	
Gravimetric Particulates	NC
NIOSH 5000 by Gravimetry	NC
Air	
Particulates	NC
NIOSH 5040 by Thermo-optical Analysis (TOA)	90012763
Air	
Elemental Carbon / Organic Carbon	NC
NIOSH 6010 MOD by Ultraviolet-Visible (UV/VIS) Colorimetry	NC
Air	
Hydrogen Cyanide	1773
NIOSH 6014 by Ultraviolet-Visible (UV/VIS) Colorimetry	NC
Air	
Nitric Oxide	NC
Nitrogen Dioxide	NC
NIOSH 6015 MOD by Ultraviolet-Visible (UV/VIS) Colorimetry	NC
Air	
Ammonia	3751
NIOSH 7401 MOD by Titrimetry	NC
Air	
Alkaline Dusts	NC
NIOSH 7500 MOD by X-ray Diffraction (XRD)	NC
Air	
Silica (Crystalline)	NC
NIOSH 7902 (NaOH) by Ion-selective electrode (ISE)	NC
Air	
Fluorides	NC



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General Chemistry

OSHA ID 142 MOD by X-ray Diffraction (XRD)

NC

Air

Silica (Crystalline), Quartz, Cristobalite

NC

PM10 by Gravimetry

NC

Air

PM10

NC

Inorganic

NIOSH 6005 – Na₂CO₃ by Ion Chromatography (IC)

NC

Air

Iodine

1788

NIOSH 6007 MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)

NC

Air

Nickel Carbonyl

NC

NIOSH 6009 MOD by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)

90012207

Air

Mercury

1095

NIOSH 6011 - Na₂SO₃ by Ion Chromatography (IC)

NC

Air

Bromine

1541

Chlorine

1580

NIOSH 7029 MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)

NC

Air

Copper (Dust and Fume)

1055

NIOSH 7300 MOD by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)

90012401

Air

Metals

NC

NIOSH 7300 MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)

90012401

Air

Metals

NC

NIOSH 7303 MOD by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)

90012434

Air

Metals

NC

NIOSH 7303 MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)

90012434

Air

Metals

NC

NIOSH 7607 by Ion Chromatography (IC)

NC

Air

Chloramines

NC



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Inorganic

NIOSH 7901 MOD by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)	NC
Air	
Metals	NC
NIOSH 7906 by Ion Chromatography (IC)	NC
Air	
Fluorides and HF	NC
NIOSH 7907 by Ion Chromatography (IC)	NC
Air	
Volatile Acids, HCl, HBr, HNO ₃	NC
NIOSH 7908 by Ion Chromatography (IC)	NC
Air	
Non-Volatile acids H ₂ SO ₄ , H ₃ PO ₄	NC
NIOSH 9102 MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)	NC
Air	
Metals (Wipes)	NC
NIOSH 9103 MOD by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)	NC
Air	
Mercury	1095
OSHA ID 125G MOD by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)	NC
Air	
Metals	NC
OSHA ID 125G MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)	NC
Air	
Metals (Particulates)	NC
OSHA ID 145 MOD by Cold Vapor Atomic Absorption Spectrophotometry (CVAAS)	60006588
Air	
Mercury	1095
OSHA ID 165SG by Ion Chromatography (IC)	NC
Air	
Acid Mist	NC
OSHA ID 200 – H₂O₂ by Ion Chromatography (IC)	NC
Air	
Sulfur Dioxide	4010
OSHA ID 206 MOD by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP/AES)	NC
Air	
Metals	NC



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Inorganic

OSHA ID 206 MOD by Inductively Coupled Plasma Mass Spectrometry (ICP/MS)

NC

Air

Metals

NC

OSHA ID 214 by Ion Chromatography (IC)

NC

Air

Ozone

1885

OSHA ID 215 NA₂CO₃ by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)

NC

Air

Hexavalent Chromium (Cr VI)

1045

Organic

EPA TO-1 IA - ACN by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)

10311805

Air

Aldehydes and Ketones

NC

GC-MS Amines Panels by Gas Chromatography Mass Spectrometry (GC/MS)

NC

Air

Amines

NC

IH-AN-HPLC-UV-MS by Liquid Chromatography Mass Spectrometry (LC/MS)

NC

Air

ALS Proprietary

NC

IH-AN-N5528 by Gas Chromatography Mass Spectrometry (GC/MS)

NC

Air

Toxic Organic Compounds

NC

IN-AN-GC/MS by Gas Chromatography Mass Spectrometry (GC/MS)

NC

Air

Toxic Organic Compounds

NC

IN-AN-Solvent Panel by Gas Chromatography Mass Spectrometry (GC/MS)

NC

Air

ALS Proprietary

NC

LC-MS Amines Panels by Liquid Chromatography Mass Spectrometry (LC/MS)

NC

Air

Amines

NC

NIOSH 1003 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)

NC

Air

Halogenated Hydrocarbons

NC

NIOSH 1005 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)

NC

Air

Methylene Chloride (Dichloromethane)

4975



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Organic

NIOSH 1024 - MeCl₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
1,3-Butadiene	9318
NIOSH 1300 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Ketones	NC
NIOSH 1400 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Alcohols	NC
NIOSH 1401 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Alcohols	NC
NIOSH 1403 - MeCl₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Alcohols	NC
NIOSH 1500 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Hydrocarbons (36-216 degC)	NC
NIOSH 1501 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	90012105
Air	
Aromatic Hydrocarbons	NC
NIOSH 1550 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Naphthas	NC
NIOSH 1604 - CS₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Acrylonitrile	4340
NIOSH 1606 - MeCl₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Acetonitrile	4320
NIOSH 1613 - MeCl₂ by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Pyridine	5095
NIOSH 1613 MOD by Gas Chromatography Mass Spectrometry (GC/MS)	NC
Air	
Toxic Organic Compounds	NC



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NIOSH 2000 - H2O by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Methanol	4930
NIOSH 2016 – ACN by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)	NC
Air	
Formaldehyde	4815
NIOSH 2500 - CS2 by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
2-Butanone (Methyl Ethyl Ketone, MEK)	4410
NIOSH 2533 MOD by Gas Chromatography Mass Spectrometry (GC/MS)	NC
Air	
Tetraethyl Lead	1211
Tetramethyl Lead	1223
NIOSH 2539 - Toluene by Gas Chromatography Flame Ionization Detection (GC/FID)	NC
Air	
Aldehyde	3753
NIOSH 5503 by Gas Chromatography Electron Capture Detector (GC/ECD)	90012809
Air	
PCBs	NC
OSHA 1007 MOD by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)	NC
Air	
Formaldehyde	NC
OSHA 32 MOD by Gas Chromatography Mass Spectrometry (GC/MS)	NC
Air	
Phenol and Cresols	NC
OSHA 34 – THF by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)	NC
Air	
Dimethylamine	4733
OSHA 34 – THF MOD by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)	NC
Air	
Dimethylamine	4733
OSHA 36 by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)	NC
Air	
Ethylamine	NC
OSHA 36 MOD by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)	NC
Air	
Ethylamine	NC



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Organic

OSHA 40 by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)

NC

Air

Methylamine

5002

OSHA 40 MOD by High Performance Liquid Chromatography - Ultraviolet (HPLC-UV)

NC

Air

Methylamine

5002

OSHA 44 MOD by Gas Chromatography Electron Capture Detector (GC/ECD)

NC

Air

2,4,6-Trinitrotoluene (2,4,6-TNT)

9651

2,4-Dinitrotoluene (2,4-DNT)

6185

2,6-Dinitrotoluene (2,6-DNT)

6190

OSHA 5002 MOD by Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS)

NC

Air

Di-isocyanate

NC

Preparation

Air

IH-AN-021

Acid Digestion for Total Metals (Hot Block)

IH-AN-024

Acid Digestion for Total Metals

SKC

Gas Chromatography (Diffusive Samplers)

Footnotes:

- > Method codes are typically based on The NELAC Institute (TNI) Laboratory Accreditation Management System (LAMS) and are used to compare to the laboratory reported Performance Test (PT) results. Although the method code may not represent the specific method version, it is the method code used to represent the method/technology used to report PTs. (NC = No Code)
- > 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.