



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Materials and Chemistry Laboratory, Inc. (MCLinc)
161 Mitchell Road, Oak Ridge, TN 37830

(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 6.0 December 2023 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 Chemical 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 Szoszen
President

Initial Accreditation Date:

July 27, 2018

Issue Date:

September 25, 2024

Expiration Date

September 30, 2026

Revision Date:

October 04, 2024

Accreditation No:

99882

Certificate No:

L24-729-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

Materials and Chemistry Laboratory, Inc. (MCLinc)

161 Mitchell Road, Oak Ridge, TN 37830

Contact Name: Michele Sanders Phone: 865-276-6910

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

Code

Asbestos

NIOSH 7400 (MCL SOP 7721) by Phase Contrast Microscopy (PCM)	NC
Filter	
Asbestos	1520
NIOSH 7402 (MCL SOP 7708) by Transmission Electron Microscopy (TEM)	NC
Filter	
Asbestos	1520
NIOSH 9002 (MCL SOP 7720) by Polarized Light Microscopy (PLM)	NC
Solid, Filter	
Asbestos	1520

General Chemistry

ASTM D-3278, ASTM D-3828, MCL SOP 7775 by Micro Flashpoint, closed cup	NC
Aqueous, Liquid	
Flashpoint	6117
NIOSH 0500 by Gravimetry	90012081
Air	
Airborne Particulate Material	3915
NIOSH 0600 by Gravimetry	90012081
Air	
Airborne Particulate Material	3915
NIOSH 7500, Related ASTM Methods by X-Ray Diffraction	NC
Solid, Filter, Wipe	
Silica (as SiO ₂)	1990
NIOSH 7902, Appendix 29 (MCL- SOP 7775) by Ion Specific Electrode	NC
Filter, Wipe	
Fluorides	NC
Related ASTM Methods, Client Specified Methods by Thermal Gravimetric Analysis (TGA)/MS	NC
Liquid	
Weight Loss on heating Compound ID	NC
Solid	
Weight Loss on heating Compound ID	NC
SM 2540B (1998) by Drying, filtering	20049416
Aqueous	
Solids (Total, TS, Residue)	1950
SM 2540C (1998) by Drying, filtering	20050457
Aqueous	
Solids (Total Dissolved, TDS, Residue, Filterable)	1955



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General Chemistry

SM 2540D (1998) by Drying, filtering 20051212

Aqueous

Solids (Total Suspended, TSS, Non-Filterable Residue) 1960

Inorganic

ASTM C1267 (MCL SOPs 7737 and 7737A) by Davies-Gray Titration NC

Liquid

Uranium (Total) 1184

Solid

Uranium (Total) 1184

ASTM C1771 (MCL SOP 7768) by ICP/MS of Hydrolyzed Uranium Hexafluoride NC

Liquid

Boron 1025

Silica (as SiO₂) 1990

Technetium-99 (Tc-99) 3020

Solid

Boron 1025

Silica (as SiO₂) 1990

Technetium-99 (Tc-99) 3020

EPA 300.0 (MCL SOP 7739) by Ion Chromatography (IC) 10053608

Aqueous

Bromide 1540

Chloride 1575

Fluoride 1730

Nitrate (as N) 1810

Nitrate + Nitrite (as N) 1820

Orthophosphate (as P) 1870

Sulfate 2000

EPA 6010, OSHA ID-125G (MCL SOP 7751) by ICP/OES NC

Aqueous

Beryllium Testing + BeO NC

Various Metals NC

Solid, Filter, Wipe

Beryllium Testing + BeO NC

Various Metals NC

EPA 6020 (MCL SOP 7768) by ICP/MS NC

Aqueous

Beryllium Testing + BeO NC



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Inorganic	
EPA 6020 (MCL SOP 7768) by ICP/MS	NC
Solid, Filter, Wipe	
Beryllium Testing + BeO	NC
EPA 6020 MOD (MCL SOP 7768) by ICP/MS	NC
Aqueous	
Boron Isotopic	NC
Lithium Isotopic	NC
Solid	
Boron Isotopic	NC
Lithium Isotopic	NC
EPA 6020, ASTM C-1345, ASTM C-1474 (MCL SOP 7769) by ICP/MS	NC
Aqueous, Liquid	
Uranium (Isotopic)	3045
Solid, Filter, Wipe	
Uranium (Isotopic)	3045
EPA 6020, EPA 6010, Related ASTM Methods by ICP/OES and ICP/MS	NC
Liquid	
Metals Assay	NC
Solid, Filter, Wipe	
Metals Assay	NC
EPA 6020, NIOSH 7303 (MCL SOP 7768) by ICP/MS	NC
Aqueous	
Metals	NC
Solid, Filter, Wipe	
Metals	NC
EPA 6020M, Related ASTM Methods (MCL SOP 7768) by ICP/MS	NC
Liquid	
Technetium-99 (Tc-99)	3020
Solid	
Technetium-99 (Tc-99)	3020
EPA 9056A by Ion Chromatography (IC)	10199607
Aqueous	
Bromide	1540
Chloride	1575
Fluoride	1730
Nitrate (as N)	1810
Nitrate + Nitrite (as N)	1820
Orthophosphate (as P)	1870



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Inorganic

EPA 9056A by Ion Chromatography (IC)	10199607
Aqueous	
Sulfate	2000
Solid	
Bromide	1540
Chloride	1575
Fluoride	1730
Nitrate (as N)	1810
Nitrate + Nitrite (as N)	1820
Orthophosphate (as P)	1870
Sulfate	2000
NIOSH 6009, Related EPA and ASTM Methods by Cold Vapor Atomic Absorption	90012207
Aqueous	
Mercury	1095
Solid, Filter, Wipe	
Mercury	1095
NIOSH 7300, NIOSH 7301, NIOSH 7303 (MCL SOP 7751) by ICP/OES	NC
Aqueous	
Metals	NC
Solid, Filter, Wipe	
Metals	NC
NIOSH 7903 (MCL SOP 7739) by Ion Chromatography (IC)	NC
Aqueous	
Anions	NC
Solid, Filter, Wipe	
Anions	NC
NIOSH 7906 by Ion Chromatography (IC)	NC
Air	
Fluoride	1730
NIOSH 7907 by Ion Chromatography (IC)	NC
Air	
Chloride	1575
Nitrate (as N)	1810
NIOSH 7908 by Ion Chromatography (IC)	NC
Air	
Phosphate	NC
Sulfate	2000



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

Code

Inorganic

OSHA-215, ASTM 5257, EPA 7199 (MCL SOP 7770) by Ion Chromatography (IC) 30031744

Aqueous

Hexavalent Chromium (Cr VI) 1045

Filter

Hexavalent Chromium (Cr VI) 1045

Solid

Hexavalent Chromium (Cr VI) 1045

Related ASTM Methods, Client Specified Methods by Scanning Electron Microscopy/EDS NC

Solid, Filter, Wipe

Elemental Analysis NC

Organic

EPA 8082; NIOSH 5503; ASTM 5175 (MCL SOP 7740) by GC/EC NC

Oil

PCBs NC

Solid

PCBs NC

Wipe

PCBs NC

Nicolet, Related ASTM Methods by Fourier Transform Infrared (FTIR) NC

Aqueous, Liquid

Organic Analysis NC

Solid

Organic Analysis NC



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

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Preparation

Liquid

EPA 1311 (MCL SOP 7743)	Toxicity Characteristic Leaching Procedure (TCLP)
EPA 3050B (MCL SOPs 7746 and 7752)	Acid Digestion for Metals
EPA 3620B (MCL SOP 7740)	Florisil Cleanup
EPA 3665A (MCL SOP 7740)	Sulfuric Acid Cleanup

Solid

EPA 1311 (MCL SOP 7743)	Toxicity Characteristic Leaching Procedure (TCLP), Zero-Headspace Extraction Vessel (ZHE)
MCL SOP 7738	Anion Preparation by Pyrolysis Apparatus
UCOR Method	Acid Leachates

Solid, Filter, Wipe

EPA 3050B (MCL SOPs 7746 and 7752)	Acid Digestion for Metals
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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.