



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

Analytical Industrial Research Laboratories, Inc. (A.I.R.L.)
1550 37th Street NE, Cleveland, TN 37312

(Hereinafter called the Organization) and hereby declares that Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

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):

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 24, 2013

Issue Date:

October 15, 2019

Expiration Date:

November 30, 2021

Accreditation No:

76332

Certificate No:

L19-525

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

Analytical Industrial Research Laboratories, Inc. (A.I.R.L.)

1550 37th Street NE, Cleveland, TN 37312
Contact Name: Roy Patterson Phone: 904-476-1854

Accreditation is granted to the facility to perform the following testing

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED
Environmental ^F	Nonpotable Water	Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium Silver Sulfur Sodium Thallium Tin Titanium Vanadium Zinc	EPA 200.7
		Mercury	EPA 245.1
	Solid Hazardous Waste	Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Calcium Chromium Cobalt Copper Iron Lead Magnesium Manganese Molybdenum Nickel Potassium Selenium	EPA 6010B



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Environmental ^F	Solid Hazardous Waste	Silver Sulfur Sodium Thallium Tin Titanium Vanadium Zinc	EPA 6010B
		Mercury	EPA 7470A EPA 7471B
Potable Water Non potable Water Solid Hazardous Waste	Potable Water Non potable Water Solid Hazardous Waste	Ammonia (as N) Total Nitrogen	SM 4500 NH3B,C,E
		Nitrate (as N) Nitrate-nitrite (as N)	SM 4500 – NO3 - E
		Nitrite (as N)	SM 4500 – NO2 – B
		Orthophosphate (as P)	SM 4500 P,E
		Total Phosphorus	SM 4500 P,B,E
Potable Water Non potable Water Solid Hazardous Waste	Potable Water Non potable Water Solid Hazardous Waste	Biochemical Oxygen Demand Carbonaceous BOD	SM 5210 B
		Chemical Oxygen Demand	SM 5220 C
		Alkalinity	SM 2320 B
		Chlorine (Total/Residual)	SM 4500-Cl G
		Fluoride	SM 4500 B,D,F
		Hardness	SM 2340 B
		Oil and Grease / TPH	EPA 1664A
		Total Residue	SM 2540 B
		Total Residue	SM 2540 G
		Filterable Residue	SM 2540 C
		Nonfilterable Residue	SM 2540 D
		Conductivity	SM 2510 B
		Surfactants	SM 5540 BCD
		Temperature	SM 2550 B
		Turbidity	EPA 180.1
Color	SM 2120 B,E		
Settleable Solids	SM 2540 F		
Silica, Dissolved	SM4500Si D		
Specific Gravity	SM 2710 F		



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Environmental ^F	Potable Water and Nonpotable Water	Volatile Residue	EPA 160.4	
		Flashpoint	EPA 1010A	
		Ignitibility	EPA 1030	
		Chloride	SM 4500-Cl-B	
		Cyanide	SM 4500 CN,C,D,E SM 4500 CN,C,E	
		pH	SM 4500-H+ B	
		Phenols	EPA 420.1	
		Sulfate	SM 4500-S04-E	
		Chromium, Hexavalent	SM 3500CR B	
		Sulfides	SM 4500S2-BCE	
	Solid Hazardous Waste	Chloride	EPA 9253	
		Cyanide	EPA 9010 C EPA 9013 EPA 9014	
		pH	EPA 9040 B EPA 9045 C	
		Phenols	EPA 9065	
		Sulfate	EPA 9038 EPA D 3987	
		Chromium, Hexavalent	EPA 3060A EPA D3987 EPA 7196A	
		Sulfides	EPA 9030B EPA 9031 EPA 9034	
		Carbonyls	EPA 8315 A	
		Synthetic Precipitation Leaching Procedure	EPA 1312	
		Toxicity Characteristic Leaching Procedures	EPA 1311	
		Nonpotable Water	E. coli	M-Coli Blue 24
			Fecal Coliform	SM 9222 D
			Total Coliform	SM 9222 B
	Diesel Range Organics (DRO)		EPA 8015B (mod)	
	Gas Range Organics		EPA 8015	



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Environmental ^F	Nonpotable Water	4,4-DDD 4,4-DDE 4,4-DDT Aldrin Alpha-BHC Beta-BHC Chlordane (technical) Delta-BHC Dieldrin Endosulfan sulfate Endosulfan I Endosulfan II Endrin Endrin aldehyde Gamma-BHC Heptachlor Heptachlor epoxide Methoxychlor PBC-1016 (Arochlor) PCB-1221 PCB-1232 PCB-1242 PCB-1248 PCB-1254 PCB-1260 PCB-1268 Toxapane	EPA 608
	Nonpotable Water/ Soil/ Hazardous Waste	2,4,5-T 2,4,-D 2,4-DB Dalapon Dicamba Dinoseb	EPA 615
		1,2-Dichlorobenzene 1,2-Diphenylhydrazine 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1-Chloronaphthalene 2-Chloronaphthalene 2-Methylnaphthalene 2-Nitrophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4 Dinitrophenol 2,4,Dinitrotoluene	EPA 625 EPA 8270C



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Environmental ^F	Nonpotable Water/ Soil/ Hazardous Waste	2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,6-Dichlorophenol 2,6-Dinitrotoluene 2 Chlorophenol 2-Cyclohexyl-4,6-dinitrophenol 2-Methyl-4,6-Dinitrophenol 2-Methylcholanthrene 2-Methylphenol 2-Nitroaniline 2-sec-Butyl-4,6-dinitrophenol 3,3-Dichlorobenzidine 3-Methylcholanthrene 3-Methyl, 4-Chlorophenol 3-Nitroaniline 4-Aminobiphenyl 4-Bromophenyl Ether 4-Bromophenylphenyl phthalate 4-Chloro-3-methylphenol 4-Chloroanilene 4-Chlorophenyl phenyl ether 4-Methylphenol 4-Methylphenol 4-Nitroaniline 4-Nitrophenol 7,12 Dimethylbenz(a)anthracene	EPA 625 EPA 8270C
	Nonpotable Water/ Solid/ Hazardous Waste	Aniline Anthracene Azobenzene Benzal chloride Benzidine Benzyl Alcohol Benzo (a) anthracene Benzo (a) pyrene Benzo (b) fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzoic acid Benzotrichloride Biphenyl Bis (2-chloroethoxy) methane Bis (2-chloroethoxy) ether Bis (2-chloroisopropyl) ether	



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Environmental ^F	Nonpotable Water/ Solid/ Hazardous Waste	Bis (2-ethylhexyl) phthalate Butyl benzyl phthalate Chloroethene Chrysene Cresols Dibenzo (a) pyrene Dibenzo (a,e) pyrene Dibenzo (a,h) acridine Dibenzo (a,h) anthracene Dibenzo (a,i) pyrene Dibenzo (a,j) acridine Dibenzofuran Diesel range organics (DRO) Diethyl phthalate Dimehtylphenethylamine Dimethyl phthalate Di-n-butyl phthalate Dinitrobenzene Di-n-octyl phthalate Diphenyl ether Diphenylamine Ethyl ethane sulfonate Fluorene Fluoroanthene Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclohexane Hexachlorocyclopentadiene Hexachloroethane Indeno (1,2,3-cd)pyrene Isophorone Methane Methyl methane sulfonate Naphthalene Naphthoquinone Nitrobenzene N-Nitrosodimethylamine N-Nitroso-di-n-propylamine N-Nitrosodiphenylamine p-Dimethylaminoazobenzene Pentachlorophenol Phenanthrene Phenol Pyrene	EPA 625 EPA 8270C



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Environmental ^F	Solid/ Hazardous Waste	4,4-DDD	EPA 8081A
		4,4-DDE	
		4,4-DDT	
		Aldrin	
		Alpha-BHC	
		Beta-BHC	
		Chlordane (technical)	
		Delta-BHC	
		Dieldrin	
		Endosulfan sulfate	
Endosulfan I			
Endosulfan II			
Endrin			
Endrin aldehyde			
Endrin Keytone			
Gamma-BHC			
Heptachlor			
Heptachlor epoxide			
Isodrin			
Kepone			
Methoxychlor			
Toxaphene			
PCB-1016 (Arochlor)	EPA 8082		
PCB-1221			
PCB-1232			
PCB-1242			
PCB-1248			
PCB-1254			
PCB-1260			
PCB-1262			
PCB-1268			
2,4,5-T	EPA 8151A		
2,4,5-TP			
4,4-DDD			
4,4-DDE			
4,4-DDT			
Aldrin			
Alpha-BHC			
Beta-BHC			
Paint Filter Liquids Test	EPA 9095B		
Shake Extraction	ASTM D3987		



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Environmental ^F	Water/Soil	1,1,1,2 Tetrachloroethane 1,1,1-Trichloromethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloropropane 1,3,5-Trimethylbenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dioxane 2-Butanone 2-Chloroethyl Vinyl Ether 2-Hexanone 4-Methyl-2-Pentanone Acetone Acetonitrile Acrolein Acrylonitrile Benzene Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform cis-1,2-Dichloroethene cis-1,3-Dichloropropene Dibromochloromethane Dibromomethane Dichlorodifluoromethane Ethylbenzene m+p-Xylene Methylene Chloride Naphthalene	EPA 8260B/624



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Environmental ^F	Water/Soil	o-Xylene Styrene Tetrachlorethene Toluene Total Xylenes Trans-1,2-Dichloroethene Trichloroethene Trichlorofluoromethane Vinyl Acetate Vinyl Chloride	EPA 8260B/624

1. The presence of a superscript F means that the laboratory performs testing of the indicated parameter at its fixed location. Example: Outside Micrometer^F would mean that the laboratory performs this testing at its fixed location.

