



PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

ALS Environmental

2655 Park Center Drive, Suite A, Simi Valley, CA 93065

(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 4.2 10/26/2010 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:

January 11, 2010

Issue Date:

January 2, 2014

Expiration Date:

January 31, 2016

Accreditation No.:

65818

Certificate No.:

L14-2

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.pjlabs.com



Certificate of Accreditation: Supplement

ISO/IEC 17025:2005 and DoD-ELAP

ALS Environmental

2655 Park Center Drive, Suite A, Simi Valley, CA 93065
 Chaney Humphrey Phone: 805-526-7161

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

Matrix	Standard Method	Technology	Analyte
Aqueous	RSK 175	GC/FID	Methane
Aqueous	RSK 175	GC/FID	Ethane
Aqueous	RSK 175	GC/FID	Ethene
Aqueous	RSK 175	GC/TCD	Carbon Dioxide
Air	(ALS SOP) VOA-EPA3C	GC/TCD	Hydrogen
Air	(ALS SOP) VOA-EPA3C	GC/TCD	Oxygen
Air	(ALS SOP) VOA-EPA3C	GC/TCD	Nitrogen
Air	(ALS SOP) VOA-EPA3C	GC/TCD	Methane
Air	(ALS SOP) VOA-EPA3C	GC/TCD	Carbon Dioxide
Air	(ALS SOP) VOA-EPA3C	GC/TCD	Carbon Monoxide
Air	(ALS SOP) VOA-TPHG_TO3	GC/FID	Total Petroleum Hydrocarbons Gasoline (TPHG)
Air	(ALS SOP) VOA-TPHG_TO3	GC/FID	JP-4
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	C1 - C6+
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	Ethane
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	Ethene
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	Methane
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	n-Butane
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	n-Hexane
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	n-Pentane
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	Propane
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	Propene
Air	(ALS SOP) VOA-TO3C1C6	GC/FID	Total Volatile Petroleum Hydrocarbons (TVPH) as Hexane
Air	EPA TO-15	GC/MS	1,1,1-Trichloroethane
Air	EPA TO-15	GC/MS	1,1,2,2-Tetrachloroethane
Air	EPA TO-15	GC/MS	1,1,2-Trichloroethane
Air	EPA TO-15	GC/MS	1,1-Dichloroethane
Air	EPA TO-15	GC/MS	1,1-Dichloroethene
Air	EPA TO-15	GC/MS	1,2,3-Trimethylbenzene
Air	EPA TO-15	GC/MS	1,2,4-Trichlorobenzene



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Matrix	Standard Method	Technology	Analyte
Air	EPA TO-15	GC/MS	1,2,4-Trimethylbenzene
Air	EPA TO-15	GC/MS	1,2-Dibromo-3-Chloropropane
Air	EPA TO-15	GC/MS	1,2-Dibromoethane
Air	EPA TO-15	GC/MS	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)
Air	EPA TO-15	GC/MS	1,2-Dichlorobenzene
Air	EPA TO-15	GC/MS	1,2-Dichloroethane
Air	EPA TO-15	GC/MS	1,2-Dichloropropane
Air	EPA TO-15	GC/MS	1,3,5-Trimethylbenzene
Air	EPA TO-15	GC/MS	1,3-Butadiene
Air	EPA TO-15	GC/MS	1,3-Dichlorobenzene
Air	EPA TO-15	GC/MS	1,4-Dichlorobenzene
Air	EPA TO-15	GC/MS	1,4-Dioxane
Air	EPA TO-15	GC/MS	1-Butanol
Air	EPA TO-15	GC/MS	2-Butanone (MEK)
Air	EPA TO-15	GC/MS	2-Ethyltoluene
Air	EPA TO-15	GC/MS	2-Hexanone
Air	EPA TO-15	GC/MS	3-Ethyltoluene
Air	EPA TO-15	GC/MS	4-Ethyltoluene
Air	EPA TO-15	GC/MS	4-Methyl-2-Pentanone
Air	EPA TO-15	GC/MS	Acetone
Air	EPA TO-15	GC/MS	Acetonitrile
Air	EPA TO-15	GC/MS	Acrolein
Air	EPA TO-15	GC/MS	Acrylonitrile
Air	EPA TO-15	GC/MS	Allyl Chloride
Air	EPA TO-15	GC/MS	alpha-Methylstyrene
Air	EPA TO-15	GC/MS	alpha-Pinene
Air	EPA TO-15	GC/MS	Benzene
Air	EPA TO-15	GC/MS	Benzyl Chloride
Air	EPA TO-15	GC/MS	Bromodichloromethane
Air	EPA TO-15	GC/MS	Bromoform
Air	EPA TO-15	GC/MS	Bromomethane
Air	EPA TO-15	GC/MS	Carbon Disulfide
Air	EPA TO-15	GC/MS	Carbon Tetrachloride
Air	EPA TO-15	GC/MS	Chlorobenzene
Air	EPA TO-15	GC/MS	Chloroethane



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Matrix	Standard Method	Technology	Analyte
Air	EPA TO-15	GC/MS	Chloroform
Air	EPA TO-15	GC/MS	Chloromethane
Air	EPA TO-15	GC/MS	cis-1,2-Dichloroethene
Air	EPA TO-15	GC/MS	cis-1,3-Dichloropropene
Air	EPA TO-15	GC/MS	Cumene
Air	EPA TO-15	GC/MS	Cyclohexane
Air	EPA TO-15	GC/MS	Cyclohexanone
Air	EPA TO-15	GC/MS	Dibromochloromethane
Air	EPA TO-15	GC/MS	Dichlorodifluoromethane (CFC 12)
Air	EPA TO-15	GC/MS	Diisopropyl Ether
Air	EPA TO-15	GC/MS	d-Limonene
Air	EPA TO-15	GC/MS	Ethanol
Air	EPA TO-15	GC/MS	Ethyl Acetate
Air	EPA TO-15	GC/MS	Ethyl tert-Butyl Ether
Air	EPA TO-15	GC/MS	Ethylbenzene
Air	EPA TO-15	GC/MS	Hexachlorobutadiene
Air	EPA TO-15	GC/MS	Isooctane
Air	EPA TO-15	GC/MS	Isopropyl acetate
Air	EPA TO-15	GC/MS	Isopropyl Alcohol
Air	EPA TO-15	GC/MS	m- & p-Xylenes
Air	EPA TO-15	GC/MS	Methyl Methacrylate
Air	EPA TO-15	GC/MS	Methyl tert-Butyl Ether
Air	EPA TO-15	GC/MS	Methylene Chloride
Air	EPA TO-15	GC/MS	Naphthalene
Air	EPA TO-15	GC/MS	n-Butyl Acetate
Air	EPA TO-15	GC/MS	n-Butylbenzene
Air	EPA TO-15	GC/MS	n-Decane
Air	EPA TO-15	GC/MS	n-Dodecane
Air	EPA TO-15	GC/MS	n-Heptane
Air	EPA TO-15	GC/MS	n-Hexane
Air	EPA TO-15	GC/MS	n-Nonane



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Air	EPA TO-15	GC/MS	n-Octane
Air	EPA TO-15	GC/MS	n-Propylbenzene
Air	EPA TO-15	GC/MS	n-Undecane
Air	EPA TO-15	GC/MS	o-Xylene
Air	EPA TO-15	GC/MS	p-Isopropyltoluene
Air	EPA TO-15	GC/MS	Propene
Air	EPA TO-15	GC/MS	sec-Butylbenzene
Air	EPA TO-15	GC/MS	Styrene
Air	EPA TO-15	GC/MS	tert-Amyl Methyl Ether
Air	EPA TO-15	GC/MS	tert-Butanol
Air	EPA TO-15	GC/MS	tert-Butylbenzene
Air	EPA TO-15	GC/MS	Tetrachloroethene
Air	EPA TO-15	GC/MS	Tetrahydrofuran
Air	EPA TO-15	GC/MS	Toluene
Air	EPA TO-15	GC/MS	trans-1,2-Dichloroethene
Air	EPA TO-15	GC/MS	trans-1,3-Dichloropropene
Air	EPA TO-15	GC/MS	Trichloroethene
Air	EPA TO-15	GC/MS	Trichlorofluoromethane
Air	EPA TO-15	GC/MS	Trichlorotrifluoroethane
Air	EPA TO-15	GC/MS	Vinyl Acetate
Air	EPA TO-15	GC/MS	Vinyl Chloride
Air	ASTM D 1946-90	GC/TCD	Hydrogen
Air	ASTM D 1946-90	GC/TCD	Oxygen
Air	ASTM D 1946-90	GC/TCD	Nitrogen
Air	ASTM D 1946-90	GC/TCD	Methane
Air	ASTM D 1946-90	GC/TCD	Carbon Dioxide
Air	ASTM D 1946-90	GC/TCD	Carbon Monoxide
Air	EPA 3C	GC/TCD	Oxygen
Air	EPA 3C	GC/TCD	Nitrogen
Air	EPA 3C	GC/TCD	Methane
Air	EPA 3C	GC/TCD	Carbon Dioxide
Air	(ALS SOP) VOA-TO15	GC/MS	1,1,1-Trichloroethane
Air	(ALS SOP) VOA-TO15	GC/MS	1,1,2,2-Tetrachloroethane
Air	(ALS SOP) VOA-TO15	GC/MS	1,1,2-Trichloroethane
Air	(ALS SOP) VOA-TO15	GC/MS	1,1-Dichloroethane



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Air	(ALS SOP) VOA-TO15	GC/MS	1,1-Dichloroethene
Air	(ALS SOP) VOA-TO15	GC/MS	1,2,3-Trimethylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,2,4-Trichlorobenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,2,4-Trimethylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,2-Dibromo-3-Chloropropane
Air	(ALS SOP) VOA-TO15	GC/MS	1,2-Dibromoethane
Air	(ALS SOP) VOA-TO15	GC/MS	1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)
Air	(ALS SOP) VOA-TO15	GC/MS	1,2-Dichlorobenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,2-Dichloroethane
Air	(ALS SOP) VOA-TO15	GC/MS	1,2-Dichloropropane
Air	(ALS SOP) VOA-TO15	GC/MS	1,3,5-Trimethylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,3-Butadiene
Air	(ALS SOP) VOA-TO15	GC/MS	1,3-Dichlorobenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,4-Dichlorobenzene
Air	(ALS SOP) VOA-TO15	GC/MS	1,4-Dioxane
Air	(ALS SOP) VOA-TO15	GC/MS	1-Butanol
Air	(ALS SOP) VOA-TO15	GC/MS	2-Butanone (MEK)
Air	(ALS SOP) VOA-TO15	GC/MS	2-Ethyltoluene
Air	(ALS SOP) VOA-TO15	GC/MS	2-Hexanone
Air	(ALS SOP) VOA-TO15	GC/MS	3-Ethyltoluene
Air	(ALS SOP) VOA-TO15	GC/MS	4-Ethyltoluene
Air	(ALS SOP) VOA-TO15	GC/MS	4-Methyl-2-Pentanone
Air	(ALS SOP) VOA-TO15	GC/MS	Acetone
Air	(ALS SOP) VOA-TO15	GC/MS	Acetonitrile
Air	(ALS SOP) VOA-TO15	GC/MS	Acrolein
Air	(ALS SOP) VOA-TO15	GC/MS	Acrylonitrile
Air	(ALS SOP) VOA-TO15	GC/MS	Allyl Chloride
Air	(ALS SOP) VOA-TO15	GC/MS	alpha-Methylstyrene
Air	(ALS SOP) VOA-TO15	GC/MS	alpha-Pinene
Air	(ALS SOP) VOA-TO15	GC/MS	Benzene
Air	(ALS SOP) VOA-TO15	GC/MS	Benzyl Chloride
Air	(ALS SOP) VOA-TO15	GC/MS	Bromodichloromethane
Air	(ALS SOP) VOA-TO15	GC/MS	Bromoform
Air	(ALS SOP) VOA-TO15	GC/MS	Bromomethane



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Matrix	Standard Method	Technology	Analyte
Air	(ALS SOP) VOA-TO15	GC/MS	Carbon Disulfide
Air	(ALS SOP) VOA-TO15	GC/MS	Carbon Tetrachloride
Air	(ALS SOP) VOA-TO15	GC/MS	Chlorobenzene
Air	(ALS SOP) VOA-TO15	GC/MS	Chloroethane
Air	(ALS SOP) VOA-TO15	GC/MS	Chloroform
Air	(ALS SOP) VOA-TO15	GC/MS	Chloromethane
Air	(ALS SOP) VOA-TO15	GC/MS	cis-1,2-Dichloroethene
Air	(ALS SOP) VOA-TO15	GC/MS	cis-1,3-Dichloropropene
Air	(ALS SOP) VOA-TO15	GC/MS	Cumene
Air	(ALS SOP) VOA-TO15	GC/MS	Cyclohexane
Air	(ALS SOP) VOA-TO15	GC/MS	Cyclohexanone
Air	(ALS SOP) VOA-TO15	GC/MS	Dibromochloromethane
Air	(ALS SOP) VOA-TO15	GC/MS	Dichlorodifluoromethane (CFC 12)
Air	(ALS SOP) VOA-TO15	GC/MS	Diisopropyl Ether
Air	(ALS SOP) VOA-TO15	GC/MS	d-Limonene
Air	(ALS SOP) VOA-TO15	GC/MS	Ethanol
Air	(ALS SOP) VOA-TO15	GC/MS	Ethyl Acetate
Air	(ALS SOP) VOA-TO15	GC/MS	Ethyl tert-Butyl Ether
Air	(ALS SOP) VOA-TO15	GC/MS	Ethylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	Hexachlorobutadiene
Air	(ALS SOP) VOA-TO15	GC/MS	Isooctane
Air	(ALS SOP) VOA-TO15	GC/MS	Isopropyl acetate
Air	(ALS SOP) VOA-TO15	GC/MS	Isopropyl Alcohol
Air	(ALS SOP) VOA-TO15	GC/MS	m-&p-Xylenes
Air	(ALS SOP) VOA-TO15	GC/MS	Methyl Methacrylate
Air	(ALS SOP) VOA-TO15	GC/MS	Methyl tert-Butyl Ether
Air	(ALS SOP) VOA-TO15	GC/MS	Methylene Chloride
Air	(ALS SOP) VOA-TO15	GC/MS	Naphthalene
Air	(ALS SOP) VOA-TO15	GC/MS	n-Butyl Acetate
Air	(ALS SOP) VOA-TO15	GC/MS	n-Butylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	n-Decane
Air	(ALS SOP) VOA-TO15	GC/MS	n-Dodecane
Air	(ALS SOP) VOA-TO15	GC/MS	n-Heptane
Air	(ALS SOP) VOA-TO15	GC/MS	n-Hexane
Air	(ALS SOP) VOA-TO15	GC/MS	n-Nonane



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Air	(ALS SOP) VOA-TO15	GC/MS	n-Octane
Air	(ALS SOP) VOA-TO15	GC/MS	n-Propylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	n-Undecane
Air	(ALS SOP) VOA-TO15	GC/MS	o-Xylene
Air	(ALS SOP) VOA-TO15	GC/MS	p-Isopropyltoluene
Air	(ALS SOP) VOA-TO15	GC/MS	Propene
Air	(ALS SOP) VOA-TO15	GC/MS	sec-Butylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	Styrene
Air	(ALS SOP) VOA-TO15	GC/MS	tert-Amyl Methyl Ether
Air	(ALS SOP) VOA-TO15	GC/MS	t-Butanol
Air	(ALS SOP) VOA-TO15	GC/MS	tert-Butylbenzene
Air	(ALS SOP) VOA-TO15	GC/MS	Tetrachloroethene
Air	(ALS SOP) VOA-TO15	GC/MS	Tetrahydrofuran
Air	(ALS SOP) VOA-TO15	GC/MS	Toluene
Air	(ALS SOP) VOA-TO15	GC/MS	trans-1,2-Dichloroethene
Air	(ALS SOP) VOA-TO15	GC/MS	trans-1,3-Dichloropropene
Air	(ALS SOP) VOA-TO15	GC/MS	Trichloroethene
Air	(ALS SOP) VOA-TO15	GC/MS	Trichlorofluoromethane
Air	(ALS SOP) VOA-TO15	GC/MS	Trichlorotrifluoroethane
Air	(ALS SOP) VOA-TO15	GC/MS	Vinyl Acetate
Air	(ALS SOP) VOA-TO15	GC/MS	Vinyl Chloride