



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Absolute Standards, Inc.
44 Rossotto Drive
Hamden CT 06514

has been assessed by ANAB
and meets the requirements of both international standard

ISO/IEC 17043:2010

and The NELAC Institute's EL-V3-2011

General Requirements for Environmental Proficiency Testing Providers
(TNI-PTP)

while demonstrating technical competence in the field of

Proficiency Testing Provider

Refer to the accompanying Scope of Accreditation for information regarding the types of proficiency tests to which this accreditation applies.

AP-1543

Certificate Number



ANAB Approval

Certificate Valid: 03/28/2017-05/02/2019

Version No. 004 Issued: 03/28/2017





**SCOPE OF ACCREDITATION TO ISO/IEC 17043:2010 and
TNI EL-V3-2011 - General Requirements for Environmental Proficiency Test Providers**

Absolute Standards, Inc.

44 Rossotto Drive, Hamden, CT 06514
Stephen Arpie Phone: 800-368-1131

Proficiency Test Provider

Valid to: May 2, 2019

Certificate Number: AP - 1543

Refer to TNI FoPT for TNI applicable analytes.

I. Chemical Testing Programs

Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
<p>Drinking Water / Non-potable Water / Solid and Chemical Materials / DMRQA</p>	<p>Metals</p>	<p>ICP / AA</p>	<p>Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chlorine, (low level) Chromium (total) Chromium (VI) Cobalt Copper Iron Lead Lithium Magnesium Manganese Mercury Mercury (low level) Molybdenum Nickel Potassium Selenium Silicon Silver Sodium Strontium Thallium Tin Titanium Vanadium Zinc</p>



Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
Drinking Water / Non-potable Water / Solid and Chemical Materials / DMRQA	Nutrients	Wet chemical methods	Ammonia (as N) Nitrate (as N) Nitrite (as N) Nitrate-Nitrite (as N) Ortho-Phosphorus (as P) Total Kjeldahl-Nitrogen Total phosphorus
Drinking Water / Non-potable Water / Solid and Chemical Materials / DMRQA	Demands	(Environmental) Standard Methods	Biochemical Oxygen Demand Carbonaceous BOD Chemical Oxygen Demand Total Organic Carbon
Drinking Water / Non-potable Water / Solid and Chemical Materials / DMRQA	Minerals	Various	Alkalinity, total (CaCO ₃) Calcium Calcium hardness (as CaCO ₃) Chloride Fluoride Hardness, total (as CaCO ₃) Magnesium Potassium Sodium Specific conductance (25°C) Sulfate Sulfite Total Dissolved Solids Total Solids

Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
<p>Drinking Water / Non-potable Water / Solid and Chemical Materials / DMRQA</p>	<p>Miscellaneous</p>	<p>Various</p>	<p>Acidity, (as CaCO₃) Alkalinity (as CaCO₃/L) Bromate Bromide Ca hardness (as CaCO₃) Total hardness (as CaCO₃) Chlorate Chlorite Color Corrosivity Cyanide Residual free chlorine Total residual chlorine Total filterable residue Non-filterable residue Ignitability Langelier Index Oil and Grease Perchlorate pH Settleable solids Silica (as SiO₂) Sulfate Sulfite-SO₃ Reactive sulfide Total sulfide Surfactants - MBAS Total cyanide Total organic halides (TOX) Total petroleum hydrocarbons (TPH) Total phenolics (4AAP) Total residual chlorine Turbidity Volatile solids Volatile suspended solids UV 254</p>

Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
Drinking Water / Non-potable Water / Solid and Chemical Materials	Volatiles	GC	<p>Acetone Acetonitrile Acrolein Acrylonitrile Benzene Bromobenzene Bromochloromethane Bromodichloromethane Bromoform 2-Butanone (MEK) tert-Butyl Alcohol n-Butylbenzene sec-Butylbenzene tert-Butylbenzene Carbon disulfide Carbon tetrachloride Chloroacetaldehyde Chlorobenzene Chloroethane Chlorodibromomethane 2-Chloroethylvinylether Chloroform 1,2- (DBCP) 2-Chlorotoluene 4-Chlorotoluene Dibromochloromethane 1,2-Dibromoethane (EDB) Dibromomethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Dichlorodifluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene cis-1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene trans-1,2-Dichloroethylene</p> <p>Ethylbenzene Ethyl-t-butylether (ETBE) Ethylene Dibromide (EDB) Formaldehyde Freon 113 Freon 11 2-Hexanone Hexachlorobutadiene Di-n-butylphthalate Isopropylbenzene 4-Isopropyltoluene Bromomethane Chloromethane Methylene chloride 4-Methyl-2-pentanone (MIBK) Methyl tert-butyl ether (MTBE) n-Propylbenzene Pyridine Styrene 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 2-Amino-1-methylbenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Trichlorofluoromethane 1,2,3-Trichloropropane Trichlorotrifluoroethane 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene TAME (tert-amyl methyl ether) Vinyl acetate Vinyl chloride Xylenes, total Di-isopropylether 1-Phenylpropane</p>

Drinking Water / Non-potable Water / Solid and Chemical Materials	Semi- volatiles	GC/HPLC	<p>Acenaphthene Acenaphthylene Acetophenone Anilene Anthracene Benzidine Benzoic acid Benzo (a) anthracene Benzo (b) fluoranthene Benzo (k) fluoranthene Benzo (ghi) perylene Benzo (a) pyrene Benzotrichloride Benzyl alcohol Benzyl chloride Biphenyl bis (2-chloroethoxy) methane bis (2-chloroethoxy) ether bis (2-chloroisopropyl) ether 4-Bromophenyl-phenylether Benzo butyl phthalate Carbazole 4-Chloroanilene Chloroethene 4-Chloro-3-methylphenol 1-Chloronaphthalene 2-Chloronaphthalene 2-Chlorophenol 4-Chlorophenyl phenyl ether Chrysene Dibenzo (a,h) anthracene Dibenzofuran 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 3,3-Dichlorobenzidine 2,4-Dichlorophenol 2,6-Dichlorophenol Diethylphthalate 2,4-Dimethylphenol Dimethylphthalate 1,3-Dinitrobenzene 1,4-Dinitrobenzene 2,4-Dinitrophenol 2,4-Dinitrotoluene 2,6-Dinitrotoluene di-n-butylphthalate di-n-octylphthalate bis (2-ethylhexyl) phthalate di (2-Ethylhexyl) adipate</p>	<p>di (2-Ethylhexyl) phthalate Fluoroanthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Hexachlorocyclopentadiene Indeno (1,2,3-cd) pyrene Isophorone 2-Methyl-4,6-Dinitrophenol 1-Methylnaphthalene 2-Methylnaphthalene 2-Methylphenol (o-Cresol) 3-Methylphenol 4-Methylphenol (p-Cresol) Tetryl Naphthalene 1,4-Naphthoquinone Napropamide 2-Nitroaniline 3-Nitroaniline 4-Nitroaniline Nitrobenzene 2-Nitrophenol 3-Nitrophenol 4-Nitrophenol 4-Nitrophenylphenylether N-Nitrosodipropylamine N-Nitrosodimethylamine N-Nitrosodiphenylamine n-Nitroso-di-n-propylamine Pentachlorobenzene Pentachlorohexane Pentachloronitrobenzene Pentachlorophenol Phenanthrene Phenol Pronamide Pyrene 1,2,3,4-Tetrachlorobenzene 1,2,3,5-Tetrachlorobenzene 1,2,4,5-Tetrachlorobenzene 2,3,4,5-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol 1,2,4-Trichlorobenzene 1,3,5-Trichlorobenzene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,4,6-Trinitrotoluene</p>
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Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
Drinking Water / Non-potable Water / Solid and Chemical Materials	Semi-volatiles (cont.)	GC / HPLC	2,3,4-Trichlorophenyl-4-nitrophenylether 2,3,5-Trichlorophenyl-4-nitrophenylether 2,3,6-Trichlorophenyl-4-nitrophenylether 2,4,5-Trichlorophenyl-4-nitrophenylether 2,4,6-Trichlorophenyl-4-nitrophenylether 3,4,5-Trichlorophenyl-4-nitrophenylether 1,3,5-Trinitrobenzene 2-Amino-4,6-dinitrotoluene 4-Amino-2,6-dinitrotoluene 1-Chloro-2,4-dinitrobenzene 1-Chloro-4-nitrobenzene 3,5-Dichloronitrobenzene Dinitramine RDX (hexahydro-1, 3,5-trinitro-1, 3,5- triazine) Hydrazine 1,2-Naphthoquinone 2-Nitrotoluene 3-Nitrotoluene 4-Nitrotoluene HMX (Octahydro-1, 3,5,7-tetranitro-1, 3,5,7- tetrazocine) 1-Phenylpropane 2,3,7,8-Tetrachloro-dibenzodioxin 2,3,4,5-Tetrachloronitrobenzene Tetryl (Methyl-2,4,6-Trinitrophenylnitramine)
Drinking Water	Organic Disinfection By-products	GC	Chloral Hydrate Bromochloroacetic Acid Dibromoacetic Acid Dichloroacetic Acid Monobromoacetic Acid Trichloroacetic Acid
Drinking Water / Non-potable Water / Solid and Chemical Materials	PCBs	GC	PCBs as decachlorobiphenyl PCB arochlor identification Arochlor 1016 Arochlor 1221 Arochlor 1232 Arochlor 1242 Arochlor 1248 Arochlor 1254 Arochlor 1260 Arochlor 1016 / 1242

Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included	
Solid and Chemical Materials	PCBs in Oil	GC	Arochlor 1016 Arochlor 1242 Arochlor 1254 Arochlor 1260	
Drinking Water / Solid and Chemical Materials	Carbamates and Vydate	GC / HPLC	Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Carbaryl Carbofuran 3-Hydroxycarbofuran Methomyl Oxamyl (Vydate) Methiocarb Baygon	
Drinking Water / Non-potable Water / Solid and Chemical Materials	Pesticides	GC / HPLC	Alachlor Aldicarb Aldicarb sulfone Aldicarb sulfoxide Aldrin alpha-BHC alpha-Chlordane Ametryn Anilazine Atraton Atrazine Azinphos-methyl (Guthion) alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane) Bromacil Brominal (Bromoxynil) Butachlor Butylate Carbaryl Carbofuran Carbophenothion Chlordane (technical) alpha-Chlordane beta-Chlordane Chloroprotham Chlorothalonil Chlorpyrifos Cyanazine DDD (4,4)	DDE (4,4) DDT (4,4) Deta-BHC Demeton-o Demeton-s Diazinon Dieldrin Dimethoate Dioxathion Diuron Dimethoate Disulfoton Diuron Endosulfan I Endosulfan II Endosulfan sulfate Endrin Endrin ketone EPTC (Eptam, s-ethyl-dipropyl thio carbamate) Ention Ethoprop Famphur Fenuron Fluometuron Fonophos gamma-BHC (Lindane) gamma-Chlordane Heptachlor Heptachlor Epoxide (beta)

Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
Drinking Water / Non-potable Water / Solid and Chemical Materials	Pesticides (cont.)	GC / HPLC	Hexachlorobenzene Hexachlorocyclopentadiene Hexazinone 3-Hydroxycarbofuran Lindane Linuron (Lorox) Malathion MCPA MCPP Methoxychlor Methyl parathion (Parathion, methyl) Metolachlor Metribuzin Molinate (Odran) Monuron Neburon Parathion, ethyl Phorate Phosmet (Imidan) Promecarb Prometon Prometryn Propachlor Propazine Propham Propozur Ronnel Siduron Simazine Stirophos Tebuthiuron Terbacil Terbufos Thiobencarb Toxaphene Trifluralin (Treflan)
Drinking Water / Non-potable Water / Solid and Chemical Materials	Herbicides	GC / HPLC	Acifluorfen Bentazon Chloramden 2,4-D Dacthal (DCPA) Dalapon 2,4-DB Dicamba 3,5-Dichlorobenzoic acid 2,4-DP (Dichlorprop) Dichlorvos Dinoseb (2-sec-butyl- 4,6-dinitrophenol, DNBP) Diquat Disulfoton Endothall Glyphosate 5-Hydroxydicamba Paraquat Pentachlorophenol Picloram 2,4,5-TP (Silvex) 2,4,5-T

Program Areas	Analyte Groups	Specification, Standard Method, or Techniques to be Used	Analytes / Parameters Included
Non-potable Water / Solid and Chemical Materials	UST analytes Petroleum HCs	GC	>C10 to C12 Aliphatic Hydrocarbons >C10 to C12 Aromatic Hydrocarbons >C12 to C13 Aromatic Hydrocarbons >C12 to C16 Aliphatic Hydrocarbons >C12 to C16 Aromatic Hydrocarbons >C16 to C21 Aromatic Hydrocarbons >C21 to C34 Aliphatic Hydrocarbons >C21 to C34 Aromatic Hydrocarbons >C6 to C8 Aliphatic Hydrocarbons >C8 to C10 Aliphatic Hydrocarbons >C9 to C10 Aromatic Hydrocarbons >C9 to C12 Aliphatic Hydrocarbons >C9 to C18 Aliphatic Hydrocarbons Oil Range Organics (C22 to C32) Total Petroleum Hydrocarbons Diesel range organics (DRO) Gasoline range organics (GRO) nC6 to nC12 nC12 to nC28
General Chemistry	Additional Analytes: Organic and Inorganic	Various Instrumental and Chemical Techniques	Organic & Inorganic Compounds fit for use in a variety of methods. Including, but not limited to: drugs, environmental, industrial, food, fermentation and others.

- Notes:**
1. This scope is formatted as part of a single document including the Certificate of Accreditation No. AP – 1543
 2. TNI represents The NELAC Institute, and the accreditation here represents verification that the accredited organization has demonstrated conformance not only to ISO/IEC 17043 but also to the relevant requirements of TNI for Proficiency Testing Providers for the defined scope of accreditation.



 Vice President