



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ESS LABORATORY - DIVISION OF THIELSCH ENGINEERING
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ENVIRONMENTAL

Valid To: June 30, 2013

Certificate Number: 2864.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with ISO IEC 17025:2005, the 2003 NELAC Chapter 5 Standard, and the requirements of the DoD Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in the DoD Quality Systems Manual for Environmental Laboratories) accreditation is granted to this laboratory to perform recognized EPA methods using the following testing technologies and in the analyte categories identified below.

Testing Technologies

Atomic Absorption/ICP-AES Spectrometry, Atomic Absorption Spectroscopy - Furnace (AAS-Furnace), Gas Chromatography, Gas Chromatography/ Mass Spectrometry, CVAA Spectrometry, Ion Chromatography, Misc.- Electronic Probes (pH), Hazardous Waste Characteristics Tests, Spectrophotometry (Visible), Titrimetry, Turbidimetric.

<u>Parameter/Analyte</u>	<u>Potable Water</u>	<u>Nonpotable Water</u>	<u>Solid/Hazardous Waste</u>
Metals			
Aluminum	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Antimony	-----	EPA 6010B / 6010C / 7040 / 7010; SM 3113B	EPA 6010B / 6010C / 7041 / 7010
Arsenic	-----	EPA 7060A / 7010 / 6010B / 6010C; SM 3113B	EPA 7060A / 7010 / 6010B / 6010C
Barium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Beryllium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Boron	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Cadmium	-----	EPA 6010B / 6010C / 7010; SM 3113B	EPA 6010B / 6010C
Calcium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Chromium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Cobalt	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Copper	-----	EPA 6010B / 6010C / 7010; SM 3113B	EPA 6010B / 6010C
Iron	-----	EPA 6010B / 6010C	EPA 6010B / 6010C

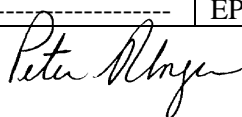
Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
Lead	-----	EPA 6010B / 6010C / 7010 / 7421; SM3113B	EPA 6010B / 6010C
Magnesium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Manganese	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Mercury	-----	EPA 7470A	EPA 7471A
Molybdenum	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Nickel	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Potassium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Selenium	-----	EPA 6010B / 6010C / 7740 / 7010; SM3 113B	EPA 6010B / 6010C / 7740 / 7010
Silicon	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Silver	-----	EPA 6010B / 6010C / 7010	EPA 6010B / 6010C
Sodium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Strontium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Thallium	-----	EPA 6010B / 6010C / 7841 / 7010; SM 3113B	EPA 6010B / 6010C / 7841 / 7010
Tin	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Titanium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Vanadium	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Zinc	-----	EPA 6010B / 6010C	EPA 6010B / 6010C
Metals Prep Methods	-----	EPA 3005	EPA 3050
Hexavalent Chromium	-----	EPA 7196	EPA 7196
Hexavalent Chromium Digestion	-----	-----	EPA 3060A
Calcium, Magnesium and Total Hardness	-----	EPA 6010B / 6010C; SM 2340B	-----
Nutrients			
Ammonia (as N)	-----	SM 4500-NH3 D,E; EPA 350.1	-----
Kjeldahl Nitrogen	-----	SM 4500-NH3 D,E; EPA 351.2	-----
Wet Chemistry			
Chloride	-----	EPA 300.0 / 9250 / 9056; SM 4500-Cl-E	EPA 9056 / 9250
Cyanide	-----	EPA 9010 / 9012	EPA 9010 / 9012
Cyanide	-----	EPA 9010 / 9014; SM 4500-CN C,E	EPA 9010 / 9014
Fluoride	-----	EPA 300.0 / 9056	EPA 9056
Nitrate (as N)	-----	EPA 300.0 / 353.2 / 9056	EPA 9056
Nitrite (as N)	-----	EPA 300.0 / 353.2 / 9056	EPA 9056
Orthophosphate (as P)	-----	EPA 300.0 / 365.1 / 365.3 / 9056	EPA 9056
Total Phosphorus (as P)		EPA 365.1/365.3; SM 4500-P E,F	
pH	-----	EPA 9040 / 9041; SM 4500-H ⁺ B	EPA 9041 / 9045
Oil and Grease	-----	EPA 1664	EPA 9071
Specific conductance	-----	EPA 120.1; SM 2510B	EPA 9050
Sulfate	-----	EPA 300.0 / 9056	EPA 9056
Sulfate	-----	EPA 9038	EPA 9038

Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
Phenols	-----	EPA 9065 / 420.1	
Alkalinity	-----	SM 2320B	-----
Chemical Oxygen Demand (COD)	-----	EPA 410.4; SM 5220D	-----
Total Solids (TS)	-----	SM 2540B	SM 2540B
Total Dissolved Solids (TDS)	-----	SM 2540C	-----
TSS	-----	SM 2540D	-----
<u>Purgeable Organics (volatiles)</u>			
Acetone	EPA 524.2	EPA 8260B	EPA 8260B
Acrylonitrile	EPA 524.2	EPA 8260B	EPA 8260B
Acrolein	EPA 524.2	EPA 8260B	EPA 8260B
Benzene	EPA 524.2	EPA 8260B	EPA 8260B
Bromobenzene	EPA 524.2	EPA 8260B	EPA 8260B
Bromochloromethane	EPA 524.2	EPA 8260B	EPA 8260B
Bromodichloromethane	EPA 524.2	EPA 8260B	EPA 8260B
Bromoform	EPA 524.2	EPA 8260B	EPA 8260B
Bromomethane	EPA 524.2	EPA 8260B	EPA 8260B
2-Butanone (MEK)	EPA 524.2	EPA 8260B	EPA 8260B
Carbon disulfide	EPA 524.2	EPA 8260B	EPA 8260B
Carbon tetrachloride	EPA 524.2	EPA 8260B	EPA 8260B
Chlorobenzene	EPA 524.2	EPA 8260B	EPA 8260B
Chloroethane	EPA 524.2	EPA 8260B	EPA 8260B
2-Chloroethyl vinyl ether	EPA 524.2	EPA 8260B	EPA 8260B
2-Chlorotoluene	EPA 524.2	EPA 8260B	EPA 8260B
4-Chlorotoluene	EPA 524.2	EPA 8260B	EPA 8260B
Chloroform	EPA 524.2	EPA 8260B	EPA 8260B
Chloromethane	EPA 524.2	EPA 8260B	EPA 8260B
Cyclohexane	-----	EPA 8260B	EPA 8260B
Dibromochloromethane	EPA 524.2	EPA 8260B	EPA 8260B
1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	EPA 8011 / 8260B	EPA 8260B
1,2-Dibromoethane (EDB)	EPA 504.1	EPA 8011 / 8260B	EPA 8260B
Dibromomethane	EPA 524.2	EPA 8260B	EPA 8260B
1,2-Dichlorobenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,3-Dichlorobenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,4-Dichlorobenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,4-Dioxane	-----	EPA 8260B	EPA 8260B
Dichlorodifluoromethane	EPA 524.2	EPA 8260B	EPA 8260B
1,1-Dichloroethane	EPA 524.2	EPA 8260B	EPA 8260B
1,2-Dichloroethane	EPA 524.2	EPA 8260B	EPA 8260B
1,1-Dichloroethene	EPA 524.2	EPA 8260B	EPA 8260B
1,1-Dichloropropene	EPA 524.2	EPA 8260B	EPA 8260B
1,2-Dichloropropane	EPA 524.2	EPA 8260B	EPA 8260B
1,3-Dichloropropane	EPA 524.2	EPA 8260B	EPA 8260B
2,2-Dichloropropane	EPA 524.2	EPA 8260B	EPA 8260B
cis-1,2-Dichloroethene	EPA 524.2	EPA 8260B	EPA 8260B
trans-1,2-Dichloroethene	EPA 524.2	EPA 8260B	EPA 8260B
1,2-Dichloropropane	EPA 524.2	EPA 8260B	EPA 8260B
cis-1,3-Dichloropropene	EPA 524.2	EPA 8260B	EPA 8260B
trans-1,3-Dichloropropene	EPA 524.2	EPA 8260B	EPA 8260B
Ethyl benzene	EPA 524.2	EPA 8260B	EPA 8260B

Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
Hexachlorobutadiene	EPA 524.2	EPA 8260B	EPA 8260B
2-Hexanone	EPA 524.2	EPA 8260B	EPA 8260B
Isopropylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
Methyl acetate	-----	EPA 8260B	EPA 8260B
m,p-Xylene	EPA 524.2	EPA 8260B	EPA 8260B
Methyl-t-butyl ether	EPA 524.2	EPA 8260B	EPA 8260B
Methylene chloride	EPA 524.2	EPA 8260B	EPA 8260B
Methylcyclohexane	-----	EPA 8260B	EPA 8260B
4-Methyl-2-pentanone	EPA 524.2	EPA 8260B	EPA 8260B
Naphthalene	EPA 524.2	EPA 8260B	EPA 8260B
n-Butylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
n-Propylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
o-Xylene	EPA 524.2	EPA 8260B	EPA 8260B
p-isopropyltoluene	EPA 524.2	EPA 8260B	EPA 8260B
sec-butylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
Styrene	EPA 524.2	EPA 8260B	EPA 8260B
tert-Butylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,1,1,2-Tetrachloroethane	EPA 524.2	EPA 8260B	EPA 8260B
1,1,2,2-Tetrachloroethane	EPA 524.2	EPA 8260B	EPA 8260B
Tetrachloroethene	EPA 524.2	EPA 8260B	EPA 8260B
Tetrahydrofuran	EPA 524.2	EPA 8260B	EPA 8260B
Toluene	EPA 524.2	EPA 8260B	EPA 8260B
1,1,1-Trichloroethane	EPA 524.2	EPA 8260B	EPA 8260B
1,1,2-Trichloroethane	EPA 524.2	EPA 8260B	EPA 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	-----	EPA 8260B	EPA 8260B
Trichloroethene	EPA 524.2	EPA 8260B	EPA 8260B
1,2,3-Trichlorobenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,2,3-Trichloropropane	EPA 524.2	EPA 8260B	EPA 8260B
1,2,4-Trichlorobenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,2,4-Trimethylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
1,3,5-Trimethylbenzene	EPA 524.2	EPA 8260B	EPA 8260B
Trichlorofluoromethane	EPA 524.2	EPA 8260B	EPA 8260B
Vinyl chloride	EPA 524.2	EPA 8260B	EPA 8260B
Xylenes, total	EPA 524.2	EPA 8260B	EPA 8260B
Gasoline Range Organics	-----	EPA 8015	EPA 8015
VOA Prep Methods	-----	EPA 5030	EPA 5035
Massachusetts VPH Method	-----	MADEP VPH04-1.1	MADEP VPH04-1.1
<u>Extractable Organics</u>			
<u>(semivolatiles)</u>			
2-Methylnaphthalene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Acenaphthene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Acenaphthylene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Acetophenone	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Atrazine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Aniline	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Anthracene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzaldehyde	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzidine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzoic acid	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzo (a) anthracene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D

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Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
Benzo (b) fluoranthene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzo (k) fluoranthene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzo (g,h,i) perylene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzo (a) pyrene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Benzyl alcohol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,1-Biphenyl	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Bis (2-chloroethoxy) methane	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Bis (2-chloroethoxy) ether	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Bis (2-chloroethyl) ether	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Bis (2-chloroisopropyl) ether	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Bis (2-ethylhexyl) phthalate	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
4-Bromophenylphenyl) ether	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Butyl benzyl phthalate	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Carbazole	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
4-Chloroaniline	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
4-Chloro-3-methylphenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Chloronaphthalene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Chlorophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Methylphenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
4-Chlorophenyl phenyl ether	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Caprolactam	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Chrysene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Cresols (methyl phenols)	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Dibenzo (a,h) anthracene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Dibenzofuran	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,2-Dichlorobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,3-Dichlorobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,4-Dichlorobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
3,3'-Dichlorobenzidine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,4-Dichlorophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Diethyl phthalate	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Di-n-butyl phthalate	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Di-n-octyl phthalate	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,4-Dimethylphenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,4-Dinitrophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Dimethyl phthalate	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,4-Dinitrotoluene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,6-Dinitrotoluene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,2-Diphenylhydrazine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Fluoranthene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Fluorene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Hexachlorobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Hexachlorobutadiene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Hexachlorocyclohexane	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Hexachlorocyclopentadiene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Hexachloroethane	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Indeno (1,2,3-cd) pyrene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Isophorone	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Methyl-4,6-Dinitrophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Methylnaphthalene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Methylphenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
3-Methylphenol/4-Methyl phenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D



Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
Naphthalene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Nitroaniline	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
3-Nitroaniline	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
4-Nitroaniline	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Nitrobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2-Nitrophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
4-Nitrophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
N-Nitrosodimethylamine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
N-Nitrosodi-n-propylamine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
N-Nitrosodiphenylamine	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Pentachlorophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Phenanthrene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Phenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
Pyrene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,2,4,5-Tetrachlorobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
1,2,4-Trichlorobenzene	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,3,4,6-Tetrachlorophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,4,5-Trichlorophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
2,4,6-Trichlorophenol	-----	EPA 8270C / 8270D	EPA 8270C / 8270D
SVOA Prep Methods	-----	EPA 3510 / 3520	EPA 3540 / 3541 / 3546 / 3580
Low Level PAHs			
Acenaphthene	-----	EPA 8270-SIM	EPA 8270-SIM
Acenaphthylene	-----	EPA 8270-SIM	EPA 8270-SIM
Anthracene	-----	EPA 8270-SIM	EPA 8270-SIM
Benzo (a) anthracene	-----	EPA 8270-SIM	EPA 8270-SIM
Benzo (a) pyrene	-----	EPA 8270-SIM	EPA 8270-SIM
Benzo (b) fluoranthene	-----	EPA 8270-SIM	EPA 8270-SIM
Benzo (k) fluoranthene	-----	EPA 8270-SIM	EPA 8270-SIM
Benzo (ghi) perylene	-----	EPA 8270-SIM	EPA 8270-SIM
Chrysene	-----	EPA 8270-SIM	EPA 8270-SIM
Dibenzo (a,h) anthracene	-----	EPA 8270-SIM	EPA 8270-SIM
Fluoroanthene	-----	EPA 8270-SIM	EPA 8270-SIM
Fluorene	-----	EPA 8270-SIM	EPA 8270-SIM
Indeno (1,2,3-cd) pyrene	-----	EPA 8270-SIM	EPA 8270-SIM
Naphthalene	-----	EPA 8270-SIM	EPA 8270-SIM
Phenanthrene	-----	EPA 8270-SIM	EPA 8270-SIM
Pyrene	-----	EPA 8270-SIM	EPA 8270-SIM
Diesel Range Organics	-----	EPA 8015; CT-ETPH	EPA 8015; CT-ETPH
Total Petroleum Hydrocarbons	-----	EPA 8100 mod	EPA 8100 mod
SVOA Prep Methods	-----	EPA 3510	EPA 3540 / 3541 / 3546
Massachusetts EPH Method	-----	MADEP EPH04-1.1	MADEP EPH04-1.1
Pesticides/Herbicides/PCBs			
Aldrin	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
alpha-BHC	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
beta-BHC	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
delta-BHC	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
gamma-BHC (Lindane)	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Chlordane (technical)	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
4,4'-DDD	-----	EPA 8081A / 8081B	EPA 8081A / 8081B

Peter M. Ryan

Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
4,4'-DDT	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
4,4'-DDE	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Alpha – Chordane	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Gamma – Chordane	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Dieldrin	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Endosulfan I (alpha)	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Endosulfan II (beta)	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Endosulfan sulfate	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Endrin	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Endrin aldehyde	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Endrin ketone	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Heptachlor	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Heptachlor epoxide	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
Methoxychor	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
PCB-1016 (Arochlor)	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1221	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1232	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1242	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1248	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1254	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1260	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1262	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
PCB-1268	-----	EPA 8082 / 8082A	EPA 8082 / 8082A
Toxaphene	-----	EPA 8081A / 8081B	EPA 8081A / 8081B
2,4-D	-----	EPA 8151M	EPA 8151M
Silvex	-----	EPA 8151M	EPA 8151M
2,4 – D	-----	EPA 8151A	EPA 8151A
2,4 – DB	-----	EPA 8151A	EPA 8151A
2,4,5 – TP (Silvex)	-----	EPA 8151A	EPA 8151A
2,4,5 – T	-----	EPA 8151A	EPA 8151A
Dalapon	-----	EPA 8151A	EPA 8151A
Dicamba	-----	EPA 8151A	EPA 8151A
Dichloroprop	-----	EPA 8151A	EPA 8151A
Dinoseb	-----	EPA 8151A	EPA 8151A
MCPA	-----	EPA 8151A	EPA 8151A
MCPP	-----	EPA 8151A	EPA 8151A
Prep Methods (organic)	-----	EPA 3510 / 3520	EPA 3540 / 3541 / 3546
Cleanup Methods			
Carboprep for Pesticides	-----	50_CARBPREP	50_CARBPREP
Sulfuric Acid Permanganate clean up for PCBs	-----	EPA 3665	EPA 3665
Sulfur clean up by copper powder	-----	EPA 3660B	EPA 3660B
Methane, Ethane and Ethene	-----	RSK-175	-----

Hazardous Waste Characteristics			
Ignitability	-----	-----	EPA 1010
Flashpoint	-----	EPA 1010	EPA 1010
Paint Filter Liquids Test	-----	-----	EPA 9095A

Peter Mlynski

Parameter/Analyte	Potable Water	Nonpotable Water	Solid/Hazardous Waste
Toxicity Characteristic Leaching Procedure	-----	EPA 1311	EPA 1311
Synthetic Precipitation Leaching Procedure	-----	EPA 1312	EPA 1312
Corrosivity	-----	EPA 9040 / 9041	EPA 9041 / 9045

Accreditation is also granted to this laboratory to perform the following tests on children's toys:

Chemical	
Lead in Paint	16 CFR part 1303 (using ASTM E1613, E1645 and EPA SW 846 6010), CPSC-CH-E1003-09, CPSC-CH-E1003-09.1
Phthalates	CPSC-CH-C1001-09.3
Lead in Children's Metal Products (including jewelry)	CPSC-CH-E1001-08



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited DoD ELAP Laboratory

A2LA has accredited

ESS LABORATORY- DIVISION OF THIELSCH ENGINEERING

Cranston, RI

for technical competence in the field of

Environmental Testing

In recognition of the successful completion of the A2LA evaluation process that includes an assessment of the laboratory's compliance with ISO/IEC 17025:2005, the 2003 NELAC Chapter 5 Standard, and the requirements of the Department of Defense Environmental Laboratory Accreditation Program (DoD ELAP) as detailed in the DoD Quality Systems Manual for Environmental Laboratories (QSM v4.1); accreditation is granted to this laboratory to perform recognized EPA methods as defined on the associated A2LA Environmental Scope of Accreditation. This accreditation demonstrates technical competence for this defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).

Presented this 27th day of July 2011.



A handwritten signature in black ink, appearing to read "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 2864.01
Valid to June 30, 2013

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Environmental Scope of Accreditation.