



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED



ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

FIRST ENVIRONMENTAL LABORATORIES, INC.

1600 SHORE ROAD, SUITE D

NAPERVILLE, IL 60563

NELAP ACCREDITED

ACCREDITATION NUMBER #100292



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Gary Germann
 Manager
 Environmental Laboratory Accreditation Program

Scott D. Siders
 Accreditation Officer
 Environmental Laboratory Accreditation Program

Certificate No.: 002687
 Expiration Date: 02/28/2012
 Issued On: 03/01/2011

State of Illinois
Environmental Protection Agency

Certificate No.:

002687

Awards the Certificate of Approval

First Environmental Laboratories, Inc.
1600 Shore Road, Suite D
Naperville, IL 60563

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Drinking Water, Inorganic

SM2130B,20Ed

Turbidity

SM2320B,20Ed

Alkalinity

SM2340B, 18Ed

Hardness

SM2510B,20Ed

Conductivity

SM2540C,20Ed

Total Dissolved Solids

SM4500Cl-G,20Ed

Chlorine (free, combined, total)

SM4500F-C,20Ed

Fluoride

SM4500H-B,20Ed

Hydrogen Ion (pH)

SM4500NO2B,20Ed

Nitrite

SM4500P-E,20Ed

Orthophosphate

SM4500SiO2-C,20Ed

Silica

SM5310C,20Ed

Total Organic Carbon (TOC)

USEPA200.7R4.4

Aluminum

Beryllium

Chromium

Iron

Nickel

Zinc

Arsenic

Cadmium

Copper

Magnesium

Silver

Barium

Calcium

Hardness (calc.)

Manganese

Sodium

USEPA200.8R5.4

Aluminum

Barium

Chromium

Antimony

Beryllium

Copper

Arsenic

Cadmium

Lead

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Drinking Water, Inorganic

Molybdenum
Silver

USEPA200.8R5.4

Nickel
Thallium

Manganese

Selenium

Zinc

USEPA245.1R3.0

Mercury

USEPA335.4R1.0

Cyanide

USEPA353.2R2.0

Nitrate

USEPA375.2R2.0

Sulfate

Hazardous and Solid Waste, Inorganic

1010

Ignitability

1311

TCLP (Organic and Inorganic)

1312

Synthetic Precipitation Leaching Procedure

6010B

Aluminum
Barium
Cadmium
Cobalt
Lead
Molybdenum
Selenium
Thallium

Antimony
Beryllium
Calcium
Copper
Magnesium
Nickel
Silver
Vanadium

Arsenic
Boron
Chromium
Iron
Manganese
Potassium
Sodium
Zinc

6020A

Aluminum
Barium
Cadmium
Cobalt
Lead
Molybdenum
Selenium
Thallium

Antimony
Beryllium
Calcium
Copper
Magnesium
Nickel
Silver
Vanadium

Arsenic
Boron
Chromium
Iron
Manganese
Potassium
Sodium
Zinc

7196A

Chromium VI

7470A

Mercury

9010B

Cyanide

9014

Cyanide

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Hazardous and Solid Waste, Inorganic

9034

Sulfides

9038

Sulfate

9040B

Hydrogen ion (pH)

9045C

Hydrogen ion (pH)

9060 (Non-Potable Matrix Only)

Total Organic Carbon (TOC)

9065

Phenolics

9066 (Non-Potable Matrix Only)

Phenolics

9071B

Oil and Grease Extractable

9095B

Paint Filter

9251 (Non-Potable Matrix Only)

Chloride

Chapter 7/9014

Reactive Cyanide

Chapter 7/9034

Reactive Sulfide

Hazardous and Solid Waste, Organic

8011 (Non-Potable Matrix Only)

1,2-Dibromo-3-chloropropane (DBCP)

1,2-Dibromoethane (EDB)

8015B

Diesel range organics (DRO)

Gasoline range organics (GRO)

8081A

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

alpha-Chlordane

beta-BHC

Chlordane - not otherwise specified

delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

Endrin ketone

gamma-BHC (Lindane)

gamma-Chlordane

Heptachlor

Heptachlor epoxide

Methoxychlor

Toxaphene

8082

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

8260B

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Hazardous and Solid Waste, Organic

8260B

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,3-Trichlorobenzene
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dichloroethane
1,3-Dichlorobenzene
1,4-Dioxane (Non-Potable Matrix Only)
2-Butanone (Methyl ethyl ketone, MEK)
2-Hexanone
2-Propanol (Isopropyl alcohol)
Acetone
Acrylonitrile
Bromobenzene
Bromoform
Carbon tetrachloride
Chloroethane
cis-1,2-Dichloroethene
Dichlorodifluoromethane
Ethyl ether
Hexachlorobutadiene
Methacrylonitrile
Methyl iodide (Iodmethane)
m-Xylene
n-Butylbenzene
Pentachloroethane
p-Xylene
tert-Butylbenzene
Toluene
trans-1,4-Dichloro-2-butene
Vinyl acetate

1,1,2,2-Tetrachloroethane
1,1-Dichloroethene
1,2,3-Trichloropropane
1,2-Dibromoethane (EDB)
1,2-Dichloropropane
1,3-Dichloropropane
1-Propanol
2-Chloroethyl vinyl ether
2-Methyl-1-propanol (Isobutyl alcohol)
4-Chlorotoluene
Acetonitrile
Allyl chloride
Bromochloromethane
Bromomethane
Chlorobenzene
Chloroform
cis-1,3-Dichloropropene
Dichloromethane (Methylene chloride)
Ethyl methacrylate
Hexachloroethane
Methyl acrylate
Methyl methacrylate
Naphthalene
n-Propylbenzene
p-Isopropyltoluene
sec-Butylbenzene
Tetrachloroethene
trans-1,2-Dichloroethene
Trichloroethene
Vinyl chloride

1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloropropene
1,2,4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
2-Nitropropane
4-Methyl-2-pentanone (Methyl isobutyl ketone)
Acrolein (Propenal)
Benzene
Bromodichloromethane
Carbon disulfide
Chlorodibromomethane (Dibromochlorometha)
Chloromethane
Dibromomethane
Ethyl acetate
Ethylbenzene
Isopropylbenzene
Methyl ethyl ketone
Methyl-t-butyl ether
n-Butanol
o-Xylene
Propionitrile (Ethyl Cyanide)
Styrene
Tetrahydrofuran
trans-1,3-Dichloropropene
Trichlorofluoromethane
Xylenes (Total)

8270C

1,2,4,5-Tetrachlorobenzene
1,2-Diphenylhydrazine
1,4-Naphthoquinone
2,3,4,6-Tetrachlorophenol
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Acetylaminofluorene
2-Methylnaphthalene
2-Nitroaniline
3,3'-Dimethylbenzidine
4,6-Dinitro-2-methylphenol
4-Chloro-3-methylphenol
4-Methylphenol
5-Nitro-o-toluidine
Acenaphthylene

1,2,4-Trichlorobenzene
1,3-Dichlorobenzene
1,4-Phenylenediamine
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dichlorophenol
2-Chloronaphthalene
2-Methylphenol
2-Nitrophenol
3-Methylcholanthrene
4-Aminobiphenyl
4-Chloroaniline
4-Nitroaniline
7,12-Dimethylbenz(a)anthracene
Acetophenone

1,2-Dichlorobenzene
1,4-Dichlorobenzene
1-Naphthylamine
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2,6-Dinitrotoluene (2,6-DNT)
2-Chlorophenol
2-Naphthylamine
3,3'-Dichlorobenzidine
3-Nitroaniline
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether
4-Nitrophenol
Acenaphthene
Aniline

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Hazardous and Solid Waste, Organic

Benzidine
Benzo(b)fluoranthene
Benzoic acid
Bis(2-chloroethyl) ether
Butyl benzyl phthalate
Chrysene
Dibenzofuran
Dimethyl phthalate
Diphenylamine
Famphur
Hexachlorobenzene
Hexachloroethane
Indeno(1,2,3-cd) pyrene
Isosafrole
Methyl methanesulfonate
Naphthalene
N-Nitrosodiethylamine
N-Nitrosodi-n-propylamine
N-Nitrosomorpholine
O,O,O-Triethyl phosphorothioate
Parathion
Pentachloronitrobenzene
Phenanthrene
Pronamide
Safrole

8270C

Benzo(a)anthracene
Benzo(g,h,i)perylene
Benzyl alcohol
Bis(2-chloroisopropyl) ether
Carbazole
Diallate
Diethyl phthalate
Di-n-butyl phthalate
Disulfoton
Fluoranthene
Hexachlorobutadiene
Hexachlorophene
Isodrin
Kepone
Methyl parathion
Nitrobenzene
N-Nitrosodimethylamine
N-Nitrosodiphenylamine
N-Nitrosopiperidine
o-Cresol (2-Methylphenol)
p-Cresol (4-Methylphenol)
Pentachlorophenol
Phenol
Pyrene
Thionazine (Zinophos)

Anthracene

Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethoxy) methane
Bis(2-ethylhexyl) phthalate
Chlorobenzilate
Dibenz(a,h)anthracene
Dimethoate
Di-n-octyl phthalate
Ethyl methanesulfonate
Fluorene
Hexachlorocyclopentadiene
Hexachloropropene
Isophorone
m-Cresol (3-Methylphenol)
Methylpyrilene
Nitroquinoline-1-oxide
N-Nitrosodi-n-butylamine (N-Nitrosodibutylami
N-Nitrosomethylethylamine
N-Nitrosopyrrolidine
o-Toluidine
Pentachlorobenzene
Phenacetin
Phorate
Pyridine

Wastewater, Inorganic

SM2120B,20Ed

Color

SM2130B,20Ed

Turbidity

SM2310B4a,20Ed

Acidity

SM2320B,20Ed

Alkalinity

SM2340B,20Ed

Hardness

SM2340C,20Ed

Hardness

SM2510B,20Ed

Specific Conductance

SM2540B,20Ed

Residue (Total)

SM2540C,20Ed

Residue (TDS)

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Wastewater, Inorganic	<i>SM2540D,20Ed</i>
Residue (TSS)	
<i>SM2540G,18Ed</i>	
Residue (% solids)	
<i>SM3500Cr-B,20Ed</i>	
Chromium VI	
<i>SM4500CL-C,20Ed</i>	
Chloride	
<i>SM4500CL-E,20Ed</i>	
Chloride	
<i>SM4500Cl-G,20Ed</i>	
Chlorine	
<i>SM4500CN-CE,20Ed</i>	
Cyanide	
<i>SM4500CN-CG,20Ed</i>	
Cyanide-amenable to chlorination	
<i>SM4500F-C,20Ed</i>	
Fluoride	
<i>SM4500H-B,20Ed</i>	
Hydrogen Ion (pH)	
<i>SM4500NH3-D,20Ed</i>	
Ammonia	
<i>SM4500NH3-G,20Ed</i>	
Ammonia	
<i>SM4500NO2B,20Ed</i>	
Nitrite	
<i>SM4500NO3F,20Ed</i>	
Nitrate	Nitrate-Nitrite (sum)
<i>SM4500P-E,20Ed</i>	
Orthophosphate (as P)	Phosphorus
<i>SM4500S-D,20Ed</i>	
Sulfide	
<i>SM4500Si-C,20Ed</i>	
Silica	
<i>SM5210B,20Ed</i>	
Biochemical Oxygen Demand (BOD)	Carbonaceous Biochemical Oxygen Demand (C
<i>SM5220D,20Ed</i>	
Chemical Oxygen Demand (COD)	
<i>SM5310C,20Ed</i>	
Total Organic Carbon (TOC)	
<i>USEPA160.4</i>	
Residue (Volatile)	

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Wastewater, Inorganic

USEPA1664R4_95

Total Petroleum Hydrocarbons

USEPA1664RA

Oil and Grease

USEPA200.7R4.4

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Hardness (calc.)

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Thallium

Vanadium

Zinc

USEPA200.8R5.4

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Chromium

Cobalt

Copper

Hardness (calc.)

Iron

Lead

Manganese

Molybdenum

Nickel

Selenium

Silver

Thallium

Tin

Vanadium

Zinc

USEPA245.1R3.0

Mercury

USEPA335.4R1.0

Cyanide

USEPA350.1R2.0

Ammonia

USEPA351.2R2.0

Total Kjeldahl Nitrogen

USEPA353.2R2.0

Nitrate (total)

Nitrate-Nitrite (sum)

USEPA375.2R2.0

Sulfate

USEPA375.4

Sulfate

USEPA420.1

Phenolics

USEPA420.4R1.0

Phenolics

Wastewater, Organic

USEPA608

4,4'-DDD

4,4'-DDE

4,4'-DDT

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Wastewater, Organic

alpha-BHC
delta-BHC
Endosulfan II
Endrin aldehyde
Heptachlor epoxide
PCB-1221
PCB-1248
Toxaphene

USEPA608

beta-BHC
Dieldrin
Endosulfan sulfate
gamma-BHC (Lindane)
Methoxychlor
PCB-1232
PCB-1254

Aldrin
Chlordane
Endosulfan I
Endrin
Heptachlor
PCB-1016
PCB-1242
PCB-1260

USEPA624

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2-Dichloroethane
1,4-Dichlorobenzene
Acrylonitrile
Bromoform
Chlorobenzene
Chloromethane
Dichloromethane (Methylene chloride)
Tetrachloroethene
trans-1,3-Dichloropropene
Vinyl chloride

1,1,2,2-Tetrachloroethane
1,1-Dichloroethene
1,2-Dichloropropane
2-Chloroethylvinyl ether
Benzene
Bromomethane
Chloroethane
cis-1,3-Dichloropropene
Ethylbenzene
Toluene
Trichloroethene
Xylenes (total)

1,1,2-Trichloroethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
Acrolein (Propenal)
Bromodichloromethane
Carbon tetrachloride
Chloroform
Dibromochloromethane
Methyl tert-butyl ether (MTBE)
trans-1,2-Dichloroethene
Trichlorofluoromethane

USEPA625

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2-Chloronaphthalene
2-Nitrophenol
4-Chloro-3-methylphenol
Acenaphthene
Benzidine
Benzo(b)fluoranthene
Benzyl butyl phthalate
Bis(2-ethylhexyl) phthalate
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
Naphthalene
N-Nitrosodi-n-propylamine
Phenanthrene

1,2-Dichlorobenzene
2,2-Oxybis (1-chloropropane)
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chlorophenol
3,3'-Dichlorobenzidine
4-Chlorophenyl phenyl ether
Acenaphthylene
Benzo(a)anthracene
Benzo(g,h,i)perylene
Bis(2-chloroethoxy) methane
Chrysene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Nitrobenzene
N-Nitrosodiphenylamine
Phenol

1,3-Dichlorobenzene
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dinitrotoluene (2,6-DNT)
2-Methyl-4,6-dinitrophenol
4-Bromophenyl phenyl ether
4-Nitrophenol
Anthracene
Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethyl) ether
Dibenz(a,h)anthracene
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
N-Nitrosodimethylamine
Pentachlorophenol
Pyrene