



**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.

Celeste M. Crowley

Kathy Marshall

Celeste M. Crowley
 Acting Manager
 Environmental Laboratory Accreditation Program

Kathy Marshall
 Accreditation Officer
 Environmental Laboratory Accreditation Program

Certificate No.: 004212
 Expiration Date: 02/28/2018
 Issued On: 08/10/2017

**State of Illinois
Environmental Protection Agency**

Certificate No.: 004212

Awards the Certificate of Approval to:

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

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.

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FOT Name: Drinking Water, Inorganic

Method: SM2130B,21Ed

Matrix Type: Potable Water

Turbidity

Method: SM2320B,21Ed

Matrix Type: Potable Water

Alkalinity

Method: SM2340B,21Ed

Matrix Type: Potable Water

Hardness

Method: SM2340C,21Ed

Matrix Type: Potable Water

Hardness

Method: SM2510B,21Ed

Matrix Type: Potable Water

Conductivity

Method: SM2540C,21Ed

Matrix Type: Potable Water

Total Dissolved Solids

Method: SM4500Cl-G,21Ed

Matrix Type: Potable Water

Chlorine (Free, Combined, Total)

Method: SM4500F-C,21Ed

Matrix Type: Potable Water

Fluoride

Method: SM4500H-B,21Ed

Matrix Type: Potable Water

Hydrogen Ion (pH)

Method: SM4500NO2-B,21Ed

Matrix Type: Potable Water

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FOT Name: Drinking Water, Inorganic

Method: SM4500NO2-B,21Ed

Matrix Type: Potable Water

Nitrite

Method: SM4500P-E,21Ed

Matrix Type: Potable Water

Orthophosphate

Method: SM4500SiO2-C,21Ed

Matrix Type: Potable Water

Silica

Method: SM5310C,21Ed

Matrix Type: Potable Water

Total Organic Carbon (TOC)

Method: USEPA200.7R4.4

Matrix Type: Potable Water

Aluminum

Arsenic

Barium

Beryllium

Cadmium

Calcium

Chromium

Copper

Hardness (calc.)

Iron

Magnesium

Manganese

Nickel

Silica

Silver

Sodium

Zinc

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Lead

Method: USEPA245.1R3.0

Matrix Type: Potable Water

Mercury

Method: USEPA335.4R1.0

Matrix Type: Potable Water

Cyanide

Method: USEPA353.2R2.0

Matrix Type: Potable Water

Nitrate

Method: USEPA375.2R2.0

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FOT Name: Drinking Water, Inorganic

Method: USEPA375.2R2.0

Matrix Type: Potable Water

Sulfate

FOT Name: Non Potable Water, Inorganic

Method: SM2120C,2001

Matrix Type: NPW

Color

Method: SM2130B,2001

Matrix Type: NPW

Turbidity

Method: SM2310B,1997

Matrix Type: NPW/SCM

Acidity

Method: SM2320B,1997

Matrix Type: NPW/SCM

Alkalinity

Method: SM2340B,1997

Matrix Type: NPW/SCM

Hardness

Method: SM2340C,1997

Matrix Type: NPW/SCM

Hardness

Method: SM2510B,1997

Matrix Type: NPW

Specific conductance

Method: SM2540B,1997

Matrix Type: NPW/SCM

Residue (Total)

Method: SM2540C,1997

Matrix Type: NPW

Residue (TDS)

Method: SM2540D,1997

Matrix Type: NPW

Residue (TSS)

Method: SM3500Cr-B,2009

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FOT Name: Non Potable Water, Inorganic

Method: SM3500Cr-B,2009

Matrix Type: NPW/SCM

Chromium VI

Method: SM4500Cl⁻-C,1997

Matrix Type: NPW/SCM

Chloride

Method: SM4500Cl⁻-E,1997

Matrix Type: NPW/SCM

Chloride

Method: SM4500Cl-G,2000

Matrix Type: NPW/SCM

Chlorine, Free Available

Chlorine, Total Residual

Method: SM4500CN-E,1999

Matrix Type: NPW/SCM

Cyanide

Method: SM4500CN-G,1999

Matrix Type: NPW/SCM

Cyanide, Available

Method: SM4500F-C,1997

Matrix Type: NPW/SCM

Fluoride

Method: SM4500H-B,2000

Matrix Type: NPW/SCM

Hydrogen ion (pH)

Method: SM4500NH3-D,1997

Matrix Type: NPW/SCM

Ammonia

Method: SM4500NO2-B,2000

Matrix Type: NPW

Nitrite

Method: SM4500P-E,1999

Matrix Type: NPW/SCM

Orthophosphate (as P)

Phosphorus

Method: SM4500S2-D,2000

Matrix Type: NPW/SCM

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FOT Name: Non Potable Water, Inorganic

Method: SM4500S2-D,2000

Matrix Type: NPW/SCM

Sulfide

Method: SM4500SiO2-C,1997

Matrix Type: NPW/SCM

Silica

Method: SM5210B,2001

Matrix Type: NPW/SCM

Biochemical oxygen demand (BOD)

Carbonaceous Biochemical Oxygen Demand (CBOD)

Method: SM5220D,1997

Matrix Type: NPW/SCM

Chemical Oxygen Demand (COD)

Method: SM5310C,2000

Matrix Type: NPW/SCM

Total Organic Carbon (TOC)

Method: USEPA1664B

Matrix Type: NPW/SCM

Oil & Grease

Method: USEPA200.7,1994

Matrix Type: NPW/SCM

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silica

Silver

Sodium

Thallium

Tin

Titanium

Vanadium

Zinc

Method: USEPA245.1R3.0,1994

Matrix Type: NPW/SCM

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FOT Name: Non Potable Water, Inorganic

Method: USEPA245.1R3.0,1994

Matrix Type: NPW/SCM

Mercury

Method: USEPA335.4R1.0,1993

Matrix Type: NPW/SCM

Cyanide

Method: USEPA350.1R2.0,1993

Matrix Type: NPW/SCM

Ammonia

Method: USEPA351.2R2.0,1993

Matrix Type: NPW/SCM

Total Kjeldahl Nitrogen

Method: USEPA353.2R2.0,1993

Matrix Type: NPW/SCM

Nitrate

Nitrate-nitrite (as N)

Method: USEPA375.2R2.0,1993

Matrix Type: NPW

Sulfate

Method: USEPA420.1,1978

Matrix Type: NPW/SCM

Phenolics

Method: USEPA420.4R1.0,1993

Matrix Type: NPW/SCM

Phenolics

FOT Name: Non Potable Water, Organic

Method: USEPA608

Matrix Type: NPW/SCM

4,4'-DDD

4,4'-DDE

4,4'-DDT

Aldrin

alpha-BHC

beta-BHC

Chlordane

Delta-BHC

Dieldrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

gamma-BHC (Lindane)

Heptachlor

Heptachlor epoxide

Methoxychlor

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FOT Name: Non Potable Water, Organic

Method: USEPA608

Matrix Type: NPW/SCM

PCB-1221

PCB-1242

PCB-1254

Toxaphene

PCB-1016

PCB-1232

PCB-1248

PCB-1260

Method: USEPA624

Matrix Type: NPW/SCM

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethene

1,2-Dichloroethane

1,3-Dichlorobenzene

2-Chloroethylvinyl ether

Acrolein (Propenal)

Benzene

Bromoform

Carbon tetrachloride

Chloroethane

Chloromethane

Dibromochloromethane

Ethylbenzene

Tetrachloroethene

trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

1,1,2,2-Tetrachloroethane

1,1-Dichloroethane

1,2-Dichlorobenzene

1,2-Dichloropropane

1,4-Dichlorobenzene

Acetonitrile

Acrylonitrile

Bromodichloromethane

Bromomethane

Chlorobenzene

Chloroform

cis-1,3-Dichloropropene

Dichloromethane (Methylene chloride)

Methyl tert-butyl ether (MTBE)

Toluene

trans-1,3-Dichloropropene

Trichlorofluoromethane

Xylenes (total)

Method: USEPA625

Matrix Type: NPW/SCM

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

2,2-Oxybis (1-chloropropane)

2,4,6-Trichlorophenol

2,4-Dimethylphenol

2,4-Dinitrotoluene (2,4-DNT)

2-Chloronaphthalene

1,2-Dichlorobenzene

1,4-Dichlorobenzene

2,4,5-Trichlorophenol

2,4-Dichlorophenol

2,4-Dinitrophenol

2,6-Dinitrotoluene (2,6-DNT)

2-Chlorophenol

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FOT Name: Non Potable Water, Organic

Method: USEPA625

Matrix Type: NPW/SCM

2-Nitrophenol
 4-Bromophenyl phenyl ether
 4-Chlorophenyl phenyl ether
 Acenaphthene
 Anthracene
 Benzo(a)anthracene
 Benzo(b)fluoranthene
 Benzo(k)fluoranthene
 Bis(2-chloroethoxy) methane
 Bis(2-ethylhexyl) phthalate
 Dibenz(a,h)anthracene
 Dimethyl phthalate
 Di-n-octyl phthalate
 Fluorene
 Hexachlorobutadiene
 Hexachloroelthane
 Isophthene
 Nitrobenzene
 N-Nitrosodi-n-propylamine
 Pentachlorophenol
 Phenol

2-Methyl-4,6-dinitrophenol
 3,3'-Dichlorobenzidine
 4-Chloro-3-methylphenol
 4-Nitrophenol
 Acenaphthylene
 Benzidine
 Benzo(a)pyrene
 Benzo(g,h,i)perylene
 Benzyl butyl phthalate
 Bis(2-chloroethyl) ether
 Chrysene
 Diethyl phthalate
 Di-n-butyl phthalate
 Fluoranthene
 Hexachlorobenzene
 Hexachlorocyclopentadiene
 Indeno(1,2,3-cd) pyrene
 Naphthalene
 N-Nitrosodimethylamine
 N-Nitrosodiphenylamine
 Phenanthrene
 Pyrene

FOT Name: Solid and Chemical Materials, Inorganic

Method: 1010A

Matrix Type: NPW/SCM

Ignitability

Method: 1311

Matrix Type: NPW/SCM

TCLP (Organic and Inorganic)

Method: 1312

Matrix Type: NPW/SCM

Synthetic Precipitation Leaching Procedure

Method: 6010C

Matrix Type: NPW

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 6010C

Matrix Type: NPW

Silica

Matrix Type: NPW/SCM

Aluminum

Antimony

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Strontium

Thallium

Tin

Titanium

Vanadium

Zinc

Method: 7196A

Matrix Type: NPW/SCM

Chromium VI

Method: 7471B

Matrix Type: SCM

Mercury

Method: 9014

Matrix Type: NPW/SCM

Cyanide

Method: 9034

Matrix Type: NPW/SCM

Sulfides

Method: 9038

Matrix Type: SCM

Sulfate

Method: 9045D

Matrix Type: SCM

Hydrogen Ion (pH)

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FOT Name: Solid and Chemical Materials, Inorganic

Method: 9060A

Matrix Type: NPW

Total Organic Carbon (TOC)

Method: 9065

Matrix Type: NPW/SCM

Phenolics

Method: 9066

Matrix Type: NPW

Phenolics

Method: 9095B

Matrix Type: NPW/SCM

Paint Filter

FOT Name: Solid and Chemical Materials, Organic

Method: 8011

Matrix Type: NPW

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

1,2-Dibromoethane (EDB)

Method: 8081A

Matrix Type: NPW/SCM

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

Method: 8082

Matrix Type: NPW/SCM

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

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FOT Name: Solid and Chemical Materials, Organic

Method: 8260B

Matrix Type: NPW

1,4-Dioxane

Matrix Type: NPW/SCM

1,1,1,2-Tetrachloroethane

1,1,2,2-Tetrachloroethane

1,1-Dichloroethane

1,1-Dichloropropene

1,2,3-Trichloropropane

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

1,2-Dichlorobenzene

1,2-Dichloropropane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,2-Dichloropropane

2-Chloroethyl vinyl ether

2-Hexanone

2-Nitropropane

4-Chlorotoluene

Acetone

Acrolein (Propenal)

Allyl chloride

Bromobenzene

Bromodichloromethane

Bromomethane

Carbon tetrachloride

Chlorodibromomethane (Dibromochloromethane)

Chloroform

cis-1,2-Dichloroethene

Dibromomethane

Dichloromethane (Methylene chloride)

Ethyl ether

Ethylbenzene

Hexachloroethane

Methacrylonitrile

Methyl ethyl ketone

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethene

1,2,3-Trichlorobenzene

1,2,4-Trimethylbenzene

1,2-Dibromoethane (EDB)

1,2-Dichloroethane

1,3,5-Trimethylbenzene

1,3-Dichloropropane

1-Propanol

2-Butanone (Methyl ethyl ketone, MEK)

2-Chlorotoluene

2-Methyl-1-propanol (Isobutyl alcohol)

2-Propanol (Isopropyl alcohol)

4-Methyl-2-pentanone (Methyl isobutyl ketone, MIBK)

Acetonitrile

Acrylonitrile

Benzene

Bromochloromethane

Bromoform

Carbon disulfide

Chlorobenzene

Chloroethane

Chloromethane

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Ethyl acetate

Ethyl methacrylate

Hexachlorobutadiene

Isopropylbenzene

Methyl acrylate

Methyl iodide (Iodmethane)

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FOT Name: Solid and Chemical Materials, Organic

Method: 8260B

Matrix Type: NPW/SCM

Methyl-t-butyl ether
Naphthalene
n-Butylbenzene
o-Xylene
p-Isopropyltoluene
p-Xylene
Styrene
Tetrachloroethene
Toluene
trans 1,3 Dichloropropane
Trichloroethene
Vinyl acetate
Xylenes (Total)

Methyl methacrylate
m-Xylene
n-Butanol
n-Propylbenzene
Pentachloroethane
Propionitrile (Ethyl Cyanide)
sec-Butylbenzene
tert-Butylbenzene
Tetrahydrofuran
trans-1,2-Dichloroethene
trans-1,4-Dichloro-2-butene
Trichlorofluoromethane
Vinyl chloride

Method: 8270C

Matrix Type: NPW/SCM

1,2,4,5-Tetrachlorobenzene
1,2-Dichlorobenzene
1,3,5-Trinitrobenzene (1,3,5-TNB)
1,3-Dinitrobenzene (1,3-DNB)
1,4-Dioxane
1,4-Phenylenediamine
2,2-Oxybis (1-chloropropane)
2,4,5-Trichlorophenol
2,4-Dichlorophenol
2,4-Dinitrophenol
2,6-Dichlorophenol
2-Acetylaminofluorene
2-Chlorophenol
2-Methylphenol
2-Nitroaniline
3,3'-Dichlorobenzidine
3-Methylcholanthrene
4,6-Dinitro-2-methylphenol
4-Bromophenyl phenyl ether

1,2,4-Trichlorobenzene
1,2-Diphenylhydrazine
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,4-Naphthoquinone
1-Naphthylamine
2,3,4,6-Tetrachlorophenol
2,4,6-Trichlorophenol
2,4-Dimethylphenol
2,4-Dinitrotoluene (2,4-DNT)
2,6-Dinitrotoluene (2,6-DNT)
2-Chloronaphthalene
2-Methylnaphthalene
2-Naphthylamine
2-Nitrophenol
3,3'-Dimethylbenzidine
3-Nitroaniline
4-Aminobiphenyl
4-Chloro-3-methylphenol

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FOT Name: Solid and Chemical Materials, Organic

Method: 8270C

Matrix Type: NPW/SCM

4-Chlorophenyl phenyl ether
4-Nitroaniline
5-Nitro-o-toluidine
Acenaphthene
Acetophenone
Anthracene
Benzo(a)anthracene
Benzo(b)fluoranthene
Benzo(k)fluoranthene
Benzyl alcohol
Bis(2-chloroethyl) ether
Butyl benzyl phthalate
Chlorobenzilate
Diallate
Dibenzofuran
Dimethoate
Di-n-butyl phthalate
Diphenylamine
Ethyl methanesulfonate
Fluoranthene
Hexachlorobenzene
Hexachlorocyclopentadiene
Hexachlorophene
Indeno(1,2,3-cd) pyrene
Isophorone
Kepone
Methyl methanesulfonate
Methylpyriline
Nitrobenzene
N-Nitrosodiethylamine
N-Nitrosodi-n-butylamine (N-Nitrosodibutylamine)
N-Nitrosodiphenylamine
N-Nitrosomorpholine
N-Nitrosopyrrolidine

4-Chloroaniline
4-Methylphenol
4-Nitrophenol
7,12-Dimethylbenz(a)anthracene
Acenaphthylene
Aniline
Benzidine
Benzo(a)pyrene
Benzo(g,h,i)perylene
Benzoic acid
Bis(2-chloroethoxy) methane
Bis(2-ethylhexyl) phthalate
Carbazole
Chrysene
Dibenz(a,h)anthracene
Diethyl phthalate
Dimethyl phthalate
Di n octyl phthalate
Disulfoton
Famphur
Fluorene
Hexachlorobutadiene
Hexachloroethane
Hexachloropropene
Isodrin
Isosafrole
m-Cresol (3-Methylphenol)
Methyl parathion
Naphthalene
Nitroquinoline-1-oxide
N-Nitrosodimethylamine
N-Nitrosodi-n-propylamine
N-Nitrosomethylethylamine
N-Nitrosopiperidine
O,O,O-Triethyl phosphorothioate

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FOT Name: Solid and Chemical Materials, Organic

Method: 8270C

Matrix Type: NPW/SCM

o-Toluidine
p-Cresol (4-Methylphenol)
Pentachloronitrobenzene
Phenacetin
Phenol
Pronamide
Pyridine
Thionazine (Zinophos)

o-Cresol (2-Methylphenol)
Parathion
Pentachlorobenzene
Pentachlorophenol
Phenanthrene
Phorate
Pyrene
Safrole