



**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.

Ron Turpin  
 Manager  
 Environmental Laboratory Accreditation Program

Scott D. Siders  
 Accreditation Officer  
 Environmental Laboratory Accreditation Program

Certificate No.: 002468  
 Expiration Date: 02/28/2011  
 Issued On: 02/23/2010

**State of Illinois**  
**Environmental Protection Agency**  
**Awards the Certificate of Approval**

Certificate No.: 002468

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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**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**

USEPA200.8R5.4

Manganese

Molybdenum  
 Silver

Nickel  
 Thallium

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 (Non-Potable Matrix Only)

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

9095A

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**

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  
 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

**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

**8260B**

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

1,2,4-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

1,1,1,2-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 (Dibromochloromethane)  
 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)

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**

8270C

Anthracene

Benizidine  
 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

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)

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**

*SM2540D,20Ed*

Residue (TSS)

*SM2540G,18Ed*

Residue (% solids)

*SM3500Cr-B,20Ed*

Chromium VI

*SM4500CL-C,20Ed*

Chloride

*SM4500CL-E,20Ed*

Chloride

*SM4500Cl-G,20Ed*

Chlorine

*SM4500CN-CE,20Ed*

Cyanide

*SM4500CN-CG,20Ed*

Cyanide-amenable to chlorination

*SM4500F-C,20Ed*

Fluoride

*SM4500H-B,20Ed*

Hydrogen Ion (pH)

*SM4500NH3-D,20Ed*

Ammonia

*SM4500NH3-G,20Ed*

Ammonia

*SM4500NO2B,20Ed*

Nitrite

*SM4500NO3E,20Ed*

Nitrate-Nitrite (sum)

*SM4500NO3F,20Ed*

Nitrate

Nitrate-Nitrite (sum)

*SM4500P-E,20Ed*

Orthophosphate (as P)

Phosphorus

*SM4500S-D,20Ed*

Sulfide

*SM4500Si-C,20Ed*

Silica

*SM5210B,20Ed*

Biochemical Oxygen Demand (BOD)

Carbonaceous Biochemical Oxygen Demand (C

*SM5220D,20Ed*

Chemical Oxygen Demand (COD)

*SM5310C,20Ed*

Total Organic Carbon (TOC)

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**Wastewater, Inorganic**

USEPA160.4

Residue (Volatile)

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**

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**Wastewater, Organic**

**USEPA608**

4,4'-DDD  
 beta-BHC  
 Dieldrin  
 Endosulfan sulfate  
 gamma-BHC (Lindane)  
 Methoxychlor  
 PCB-1232  
 PCB-1254

4,4'-DDD  
 Aldrin  
 Chlordane  
 Endosulfan I  
 Endrin  
 Heptachlor  
 PCB-1016  
 PCB-1242  
 PCB-1260

4,4'-DDE  
 alpha-BHC  
 delta-BHC  
 Endosulfan II  
 Endrin aldehyde  
 Heptachlor epoxide  
 PCB-1221  
 PCB-1248  
 Toxaphene

**USEPA624**

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

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)

**USEPA625**

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

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