



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED



ENVIRONMENTAL LABORATORY ACCREDITATION

is hereby granted to

RTI LABORATORIES, INC.
31628 GLENDALE AVENUE
LIVONIA, MI 48150
NELAP ACCREDITED
ACCREDITATION NUMBER #100315



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

Janet Cruse
Accreditation Officer
Environmental Laboratory Accreditation Program

Certificate No.: 002542
Expiration Date: 01/31/2011
Issued On: 06/25/2010

State of Illinois
Environmental Protection Agency

Certificate No.:

002542

Awards the Certificate of Approval

RTI Laboratories, Inc.
31628 Glendale Avenue
Livonia, MI 48150

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Drinking Water, Inorganic

SM4500CN-CE, 20Ed

Cyanide

SM4500H-B, 20Ed

Hydrogen Ion (pH)

USEPA200.8R5.4

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Molybdenum

Nickel

Selenium

Silver

Thallium

Zinc

USEPA245.1R3.0

Mercury

USEPA300.0R2.1

Chloride

Fluoride

Nitrite

Orthophosphate

Sulfate

Drinking Water, Organic

USEPA504.1R1.1

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

1,2-Dibromoethane (EDB)

USEPA507R2.1

Alachlor

Atrazine

Butachlor

Metolachlor

Metribuzin

Simazine

USEPA508R3.1

4,4'-DDE

4,4'-DDT

Aldrin

Chlordane total

Dieldrin

Endrin

gamma-BHC (Lindane)

Heptachlor

Heptachlor epoxide

Methoxychlor

PCB as Aroclor

Toxaphene

USEPA524.2R4.1

1,1,1,2-Tetrachloroethane

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,1-Dichloropropene

1,2,3-Trichlorobenzene

1,2,3-Trichloropropane

1,2,4-Trichlorobenzene

1,2,4-Trimethylbenzene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,3,5-Trimethylbenzene

1,3-Dichlorobenzene

1,3-Dichloropropane

1,4-Dichlorobenzene

2,2-Dichloropropane

2-Chlorotoluene

4-Chlorotoluene

4-Isopropyltoluene

Benzene

Bromobenzene

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Drinking Water, Organic

Bromodichloromethane
Carbon tetrachloride
Chloroethane
cis-1,2-Dichloroethene
Dichlorodifluoromethane
Fluorotrichloromethane
Methyl tert-butyl ether (MTBE)
Nitrobenzene
Styrene
Toluene
trans-1,3-Dichloropropene
Volatile organic contaminants regulated

USEPA524.2R4.1

Bromoform
Chlorobenzene
Chloroform
cis-1,3-Dichloropropene
Dichloromethane (Methylene chloride)
Hexachlorobutadiene
Naphthalene
n-Propylbenzene
tert-Butylbenzene
Total trihalomethanes
Trichloroethylene
Volatile organic contaminants unregulated

Bromochloromethane
Bromomethane
Chlorodibromomethane
Chloromethane
Dibromomethane
Ethylbenzene
Isopropylbenzene
n-Butylbenzene
sec-Butylbenzene
Tetrachloroethene
trans-1,2-Dichloroethene
Vinyl chloride
Xylenes (total)

USEPA525.2R2.0

Benzo(a)pyrene

Di (2-ethylhexyl) adipate

Di (2-ethylhexyl) phthalate

USEPA552.2R1.0

Dibromoacetic acid
Monochloroacetic acid

Dichloroacetic acid
Trichloroacetic acid

Monobromoacetic acid

Hazardous and Solid Waste, Inorganic

1010

Ignitability

1030

Ignitability of Solids

1311

TCLP (Organic and Inorganic)

1312

Synthetic Precipitation Leaching Procedure

5050

Bomb Preparation

6020

Aluminum
Barium
Calcium
Copper
Magnesium
Nickel
Silver
Vanadium

Antimony
Beryllium
Chromium
Iron
Manganese
Potassium
Sodium
Zinc

Arsenic
Cadmium
Cobalt
Lead
Molybdenum
Selenium
Thallium

6020A

Aluminum
Barium
Cadmium
Cobalt
Lead
Molybdenum

Antimony
Beryllium
Calcium
Copper
Magnesium
Nickel

Arsenic
Boron
Chromium
Iron
Manganese
Potassium

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Hazardous and Solid Waste, Inorganic

6020A

Selenium

Silver
Vanadium

Sodium
Zinc

Thallium

7196A

Chromium VI

7470A

Mercury

7471A

Mercury

9012A

Cyanide

9030B

Sulfides

9031

Sulfides

9045C

Hydrogen Ion (pH)

9050A

Specific Conductance

9056

Bromide
Nitrate
Sulfate

Chloride
Nitrite

Fluoride
Phosphate

9065

Phenolics

9095A

Paint Filter

Hazardous and Solid Waste, Organic

8015B

Diesel range organics (DRO)
Gasoline range organics (GRO)

Ethanol
Methanol

Ethylene glycol

8081A

4,4'-DDD
Aldrin
beta-BHC
Dieldrin
Endosulfan sulfate
Endrin ketone
Heptachlor
Toxaphene

4,4'-DDE
alpha-BHC
Chlordane - not otherwise specified
Endosulfan I
Endrin
gamma-BHC (Lindane)
Heptachlor epoxide

4,4'-DDT
alpha-Chlordane
delta-BHC
Endosulfan II
Endrin aldehyde
gamma-Chlordane
Methoxychlor

8082

PCB-1016
PCB-1242
PCB-1260

PCB-1221
PCB-1248

PCB-1232
PCB-1254

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Hazardous and Solid Waste, Organic

8151A

2,4,5-T
2,4-DB
Dicamba
MCPA
Picloram

2,4,5-TP (Silvex)
Dalapon
Dichloroprop
MCPPP

2,4-D
DCPA diacid
Dinoseb
Pentachlorophenol

8260B

1,1,1,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloropropene
1,2,4-Trichlorobenzene
1,2-Dibromoethane (EDB)
1,2-Dichloropropane
1,3-Dichloropropane
2-Butanone (Methyl ethyl ketone, MEK)
2-Hexanone
Acetone
Bromobenzene
Bromoform
Carbon tetrachloride
Chloroethane
cis-1,2-Dichloroethene
Dichlorodifluoromethane
Epichlorohydrin
Hexachlorobutadiene
Isopropylbenzene
m-Xylene
n-Propylbenzene
p-Xylene
t-Butyl alcohol
Tetrahydrofuran
trans-1,3-Dichloropropene
Trichlorofluoromethane
Xylenes (Total)

1,1,1-Trichloroethane
1,1-Dichloroethane
1,2,3-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dichlorobenzene
2-Chloroethyl vinyl ether
4-Chlorotoluene
Acrylonitrile
Bromochloromethane
Bromomethane
Chlorobenzene
Chloroform
cis-1,3-Dichloropropene
Dichloromethane (Methylene chloride)
Ethyl methacrylate
Hexachloroethane
Methyl iodide (Iodmethane)
Naphthalene
o-Xylene
sec-Butylbenzene
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-Dibromo-3-chloropropane (DBCP)
1,2-Dichloroethane
1,3-Dichlorobenzene
2,2-Dichloropropane
2-Chlorotoluene
4-Methyl-2-pentanone (Methyl isobutyl ketone)
Benzene
Bromodichloromethane
Carbon disulfide
Chlorodibromomethane (Dibromochloromethane)
Chloromethane
Dibromomethane
Diethyl ether
Ethylbenzene
Isopropyl ether
Methyl-t-butyl ether
n-Butylbenzene
p-Isopropyltoluene
Styrene
Tetrachloroethane
trans-1,2-Dichloroethene
Trichloroethene
Vinyl chloride

8270C

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2,6-Dinitrotoluene (2,6-DNT)
2-Methylnaphthalene
2-Nitrophenol
3-Nitroaniline
4-Chloro-3-methylphenol
4-Methylphenol
Acenaphthene
Anthracene

1,2-Dichlorobenzene
2,3,4,6-Tetrachlorophenol
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chloronaphthalene
2-Methylphenol (o-Cresol)
3,3'-Dichlorobenzidine
4,6-Dinitro-2-methylphenol
4-Chloroaniline
4-Nitroaniline
Acenaphthylene
Benzidine

1,3-Dichlorobenzene
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dichlorophenol
2-Chlorophenol
2-Nitroaniline
3-Methylphenol (m-Cresol)
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether
4-Nitrophenol
Aniline
Benzo(a)anthracene

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Hazardous and Solid Waste, Organic

Benzo(b)fluoranthene
Benzyl alcohol
Bis(2-chloroisopropyl) ether
Carbazole
Dibenzofuran
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
Nitrobenzene
N-Nitrosodi-n-propylamine
p-Cresol (4-Methylphenol)
Phenol

8270C

Benzo(g,h,i)perylene
Bis(2-chloroethoxy) methane
Bis(2-ethylhexyl) phthalate
Chrysene
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
m-Cresol (3-Methylphenol)
N-Nitrosodiethylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Pyrene

Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethyl) ether
Butyl benzyl phthalate
Dibenz(a,h)anthracene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Naphthalene
N-Nitrosodimethylamine
o-Cresol (2-Methylphenol)
Phenanthrene
Pyridine

8270D

1,2,4-Trichlorobenzene
1,4-Dichlorobenzene
2,4,6-Trichlorophenol
2,4-Dinitrophenol
2,6-Dinitrotoluene (2,6-DNT)
2-Methylnaphthalene
2-Nitrophenol
3-Nitroaniline
4-Chloro-3-methylphenol
4-Methylphenol (p-Cresol)
Acenaphthene
Anthracene
Benzo(a)pyrene
Benzo(k)fluoranthene
Bis(2-chloroethoxy) methane
Bis(2-ethylhexyl) phthalate
Chrysene
Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
m-Cresol (3-Methylphenol)
N-Nitrosodiethylamine
N-Nitrosodiphenylamine
Pentachlorophenol
Pyrene

1,2-Dichlorobenzene
2,3,4,6-Tetrachlorophenol
2,4-Dichlorophenol
2,4-Dinitrotoluene (2,4-DNT)
2-Chloronaphthalene
2-Methylphenol (o-Cresol)
3,3'-Dichlorobenzidine
4,6-Dinitro-2-methylphenol
4-Chloroaniline
4-Nitroaniline
Acenaphthylene
Benzidine
Benzo(b)fluoranthene
Benzoic acid
Bis(2-chloroethyl) ether
Butyl benzyl phthalate
Dibenz(a,h)anthracene
Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Naphthalene
N-Nitrosodimethylamine
o-Cresol (2-Methylphenol)
Phenanthrene
Pyridine

1,3-Dichlorobenzene
2,4,5-Trichlorophenol
2,4-Dimethylphenol
2,6-Dichlorophenol
2-Chlorophenol
2-Nitroaniline
3-Methylphenol (m-Cresol)
4-Bromophenyl phenyl ether
4-Chlorophenyl phenyl ether
4-Nitrophenol
Aniline
Benzo(a)anthracene
Benzo(g,h,i)perylene
Benzyl alcohol
Bis(2-chloroisopropyl) ether
Carbazole
Dibenzofuran
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
Nitrobenzene
N-Nitrosodi-n-propylamine
p-Cresol (4-Methylphenol)
Phenol

Wastewater, Inorganic

SM2320B, 20Ed

Alkalinity

SM2540B, 20Ed

Residue (Total)

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Wastewater, Inorganic

SM2540C, 20Ed

Residue (TDS)

SM2540D, 20Ed

Residue (TSS)

SM2540F, 20Ed

Residue (settleable)

SM2550-B, 20Ed

Temperature

SM4500CN-CE, 20Ed

Cyanide

SM4500CN-CG, 20Ed

Cyanide-amenable to chlorination

SM4500H-B, 20Ed

Hydrogen Ion (pH)

SM4500NH3-D, 20Ed

Ammonia

SM4500NO3E, 20Ed

Nitrate

Nitrate-Nitrite (sum)

SM4500P-F, 20Ed

Orthophosphate (as P)

SM5210B, 20Ed

Biochemical Oxygen Demand (BOD)

Carbonaceous Biochemical Oxygen Demand (C

USEPA120.1

Specific Conductance

USEPA1631E

Mercury

USEPA1664RA

Oil and Grease

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

USEPA300.0R2.1

Chloride

Fluoride

Nitrate

Nitrate-Nitrite (sum)

Nitrite

Orthophosphate (as P)

Sulfate

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Wastewater, Inorganic

USEPA330.1

Chlorine

USEPA351.2R2.0

Total Kjeldahl Nitrogen

USEPA410.4R2.0

Chemical Oxygen Demand (COD)

USEPA420.1

Phenolics

Wastewater, Organic

USEPA608

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

PCB-1016

PCB-1221

PCB-1232

PCB-1242

PCB-1248

PCB-1254

PCB-1260

Toxaphene

USEPA624

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,2-Dichloropropane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2-Chloroethylvinyl ether

Acetonitrile

Acrolein (Propenal)

Acrylonitrile

Benzene

Bromodichloromethane

Bromoform

Bromomethane

Carbon tetrachloride

Chlorobenzene

Chloroethane

Chloroform

Chloromethane

cis-1,3-Dichloropropene

Dibromochloromethane

Dichloromethane (Methylene chloride)

Ethylbenzene

Methyl tert-butyl ether (MTBE)

Tetrachloroethene

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene

Trichlorofluoromethane

Vinyl chloride

Xylenes (total)

USEPA625

1,2,4-Trichlorobenzene

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

2,2-Oxybis (1-chloropropane)

2,3-Dinitrophenol

2,4,5-Trichlorophenol

2,4,6-Trichlorophenol

2,4-Dichlorophenol

2,4-Dimethylphenol

2,4-Dinitrophenol

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

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

2-Chloronaphthalene

2-Chlorophenol

2-Methyl-4,6-dinitrophenol

2-Nitrophenol

3,3'-Dichlorobenzidine

4-Bromophenyl phenyl ether

4-Chloro-3-methylphenol

4-Chlorophenyl phenyl ether

4-Nitrophenol

Acenaphthene

Acenaphthylene

Anthracene

Benzidine

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(g,h,i)perylene

Benzo(k)fluoranthene

Benzyl butyl phthalate

Bis(2-chloroethoxy) methane

Bis(2-chloroethyl) ether

Bis(2-ethylhexyl) phthalate

Chrysene

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Wastewater, Organic

Diethyl phthalate
Di-n-octyl phthalate
Hexachlorobenzene
Hexachloroethane
Naphthalene
N-Nitrosodi-n-propylamine
Phenanthrene

USEPA625

Dimethyl phthalate
Fluoranthene
Hexachlorobutadiene
Indeno(1,2,3-cd) pyrene
Nitrobenzene
N-Nitrosodiphenylamine
Phenol

Dibenz(a,h)anthracene
Di-n-butyl phthalate
Fluorene
Hexachlorocyclopentadiene
Isophorone
N-Nitrosodimethylamine
Pentachlorophenol
Pyrene