

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY RECOGNITION OF CERTIFICATION OR ACCREDITATION

The North Dakota Department of Environmental Quality recognizes the certification or accreditation of

Minnesota Valley Testing Laboratories, Inc. - 1126 N Front Street - New Ulm, MN

by

State of Minnesota Department of Health, ELCF

for

All Clean Water Act, Resource Conservation and Recovery Act, Safe Drinking Water Act
chemical parameters by the methods on the accompanying list of certified parameters for this laboratory

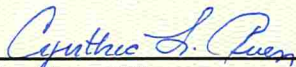
Certification Number: R-040

Date of Issue: January 10, 2023, Expiration Date: December 31, 2023, Covers: 1/1/2023 - 12/31/2023

This certificate remains the property of the North Dakota Department of Environmental Quality and may be recalled, for cause, at any time, by the Department. Recognition of an out-of-state laboratory's certification or accreditation from another state certification or accreditation program by the North Dakota Department of Environmental Quality is neither an endorsement of the results reported by the laboratory, nor a guarantee of the validity or accuracy of the results reported by the laboratory.



Director, Division of Chemistry



Certification Officer

***Certified Parameters for
Minnesota Valley Testing Laboratories, Inc.
1126 N Front Street, New Ulm, MN***

***Issued by
North Dakota Department of Environmental Quality
Division of Chemistry
January 10, 2023***

Certification Period: January 1, 2023, through December 31, 2023

Lab Certification No: R-040

Based on Certificate No: 2417027

From the State of Minnesota Department of Health, ELCP

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Clean Water Act</i>	Sulfate	ASTM D516-16	159	Certified
	Volatile Solids	EPA 160.4	70	Certified
	Mercury	EPA 1631E	80	Certified
	Oil and Grease (HEM)	EPA 1664 B	111	Certified
	Turbidity	EPA 180.1	9	Certified
	Aluminum	EPA 200.7	2	Certified
	Barium	EPA 200.7	2	Certified
	Beryllium	EPA 200.7	2	Certified
	Boron	EPA 200.7	2	Certified
	Cadmium	EPA 200.7	2	Certified
	Calcium	EPA 200.7	2	Certified
	Chromium	EPA 200.7	2	Certified
	Chromium (Total)	EPA 200.7	2	Certified
	Cobalt	EPA 200.7	2	Certified
	Copper	EPA 200.7	2	Certified
	Iron	EPA 200.7	2	Certified
	Lead	EPA 200.7	2	Certified
	Magnesium	EPA 200.7	2	Certified
	Manganese	EPA 200.7	2	Certified
	Molybdenum	EPA 200.7	2	Certified
	Nickel	EPA 200.7	2	Certified
	Potassium	EPA 200.7	2	Certified
	Silica (Dissolved)	EPA 200.7	2	Certified
	Silver	EPA 200.7	2	Certified
	Sodium	EPA 200.7	2	Certified
	Tin	EPA 200.7	2	Certified
	Titanium	EPA 200.7	2	Certified
	Vanadium	EPA 200.7	2	Certified
	Zinc	EPA 200.7	2	Certified
	Antimony	EPA 200.8	2	Certified
	Arsenic	EPA 200.8	2	Certified
	Barium	EPA 200.8	2	Certified

Program
Clean Water Act

Parameter	Method	Source #	Status
Beryllium	EPA 200.8	2	Certified
Cadmium	EPA 200.8	2	Certified
Chromium	EPA 200.8	2	Certified
Chromium (Total)	EPA 200.8	2	Certified
Cobalt	EPA 200.8	2	Certified
Copper	EPA 200.8	2	Certified
Lead	EPA 200.8	2	Certified
Manganese	EPA 200.8	2	Certified
Molybdenum	EPA 200.8	2	Certified
Nickel	EPA 200.8	2	Certified
Selenium	EPA 200.8	2	Certified
Silver	EPA 200.8	2	Certified
Thallium	EPA 200.8	2	Certified
Zinc	EPA 200.8	2	Certified
Mercury	EPA 245.7	89	Certified
Bromide	EPA 300.0	9	Certified
Chloride	EPA 300.0	9	Certified
Fluoride	EPA 300.0	9	Certified
Nitrate + Nitrite as N	EPA 300.0	9	Certified
Nitrate as N	EPA 300.0	9	Certified
Nitrite as N	EPA 300.0	9	Certified
Sulfate	EPA 300.0	9	Certified
Cyanide (Total)	EPA 335.4	9	Certified
Ammonia as N	EPA 350.1	9	Certified
Total Kjeldahl Nitrogen (TKN)	EPA 351.2	9	Certified
Nitrate + Nitrite as N	EPA 353.2	9	Certified
Nitrite as N	EPA 353.2	9	Certified
Nitrate as N	EPA 353.2 (calc)	9	Certified
Orthophosphate as P	EPA 365.1	9	Certified
Phosphorus (Total)	EPA 365.1	9	Certified
Chemical Oxygen Demand (COD)	EPA 410.4	9	Certified
4,4'-DDD	EPA 608.3	136	Certified
4,4'-DDE	EPA 608.3	136	Certified
4,4'-DDT	EPA 608.3	136	Certified
Aldrin	EPA 608.3	136	Certified
alpha-BHC	EPA 608.3	136	Certified
Aroclor 1016	EPA 608.3	136	Certified
Aroclor 1221	EPA 608.3	136	Certified
Aroclor 1232	EPA 608.3	136	Certified
Aroclor 1242	EPA 608.3	136	Certified
Aroclor 1248	EPA 608.3	136	Certified
Aroclor 1254	EPA 608.3	136	Certified
Aroclor 1260	EPA 608.3	136	Certified
beta-BHC	EPA 608.3	136	Certified
Chlordane (Technical)	EPA 608.3	136	Certified
delta-BHC	EPA 608.3	136	Certified
Dieldrin	EPA 608.3	136	Certified
Endosulfan I	EPA 608.3	136	Certified
Endosulfan II	EPA 608.3	136	Certified

Program
Clean Water Act

Parameter

Method

Source # Status

Endosulfan Sulfate	EPA 608.3	136	Certified
Endrin	EPA 608.3	136	Certified
Endrin Aldehyde	EPA 608.3	136	Certified
gamma-BHC (Lindane)	EPA 608.3	136	Certified
Heptachlor	EPA 608.3	136	Certified
Heptachlor Epoxide	EPA 608.3	136	Certified
Methoxychlor	EPA 608.3	136	Certified
Toxaphene	EPA 608.3	136	Certified
1,1,1-Trichloroethane	EPA 624.1	136	Certified
1,1,2,2-Tetrachloroethane	EPA 624.1	136	Certified
1,1,2-Trichloroethane	EPA 624.1	136	Certified
1,1-Dichloroethane	EPA 624.1	136	Certified
1,1-Dichloroethene	EPA 624.1	136	Certified
1,2-Dichlorobenzene	EPA 624.1	136	Certified
1,2-Dichloroethane	EPA 624.1	136	Certified
1,2-Dichloropropane	EPA 624.1	136	Certified
1,3-Dichlorobenzene	EPA 624.1	136	Certified
1,4-Dichlorobenzene	EPA 624.1	136	Certified
2-Chloroethyl vinyl ether	EPA 624.1	136	Certified
4-methyl 2-pentanone (MIBK)	EPA 624.1	136	Certified
Acetone (2-Propanone)	EPA 624.1	136	Certified
Acrolein	EPA 624.1	136	Certified
Acrylonitrile	EPA 624.1	136	Certified
Benzene	EPA 624.1	136	Certified
Bromodichloromethane	EPA 624.1	136	Certified
Bromoform	EPA 624.1	136	Certified
Bromomethane (Methyl bromide)	EPA 624.1	136	Certified
Carbon Tetrachloride	EPA 624.1	136	Certified
Chlorobenzene	EPA 624.1	136	Certified
Chloroethane	EPA 624.1	136	Certified
Chloroform	EPA 624.1	136	Certified
Chloromethane (Methyl Chloride)	EPA 624.1	136	Certified
cis-1,3-Dichloropropene	EPA 624.1	136	Certified
Dibromochloromethane	EPA 624.1	136	Certified
Ethanol	EPA 624.1	136	Certified
Ethylbenzene	EPA 624.1	136	Certified
Methylene chloride	EPA 624.1	136	Certified
Tetrachloroethene	EPA 624.1	136	Certified
Tetrahydrofuran	EPA 624.1	136	Certified
Toluene	EPA 624.1	136	Certified
trans-1,2-Dichloroethene	EPA 624.1	136	Certified
trans-1,3-Dichloropropene	EPA 624.1	136	Certified
Trichloroethene (Trichloroethylene)	EPA 624.1	136	Certified
Trichlorofluoromethane (Freon 11)	EPA 624.1	136	Certified
Vinyl chloride (chloroethene)	EPA 624.1	136	Certified
1,2,4-Trichlorobenzene	EPA 625.1	136	Certified
2,2'-oxybis(1-Chloropropane)	EPA 625.1	136	Certified
2,4,6-Trichlorophenol	EPA 625.1	136	Certified
2,4-Dichlorophenol	EPA 625.1	136	Certified

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Program
Clean Water Act

Parameter	Method	Source #	Status
2,4-Dimethylphenol	EPA 625.1	136	Certified
2,4-Dinitrophenol	EPA 625.1	136	Certified
2,4-Dinitrotoluene	EPA 625.1	136	Certified
2,6-Dinitrotoluene	EPA 625.1	136	Certified
2-Chloronaphthalene	EPA 625.1	136	Certified
2-Chlorophenol	EPA 625.1	136	Certified
2-Methyl-4,6-dinitrophenol	EPA 625.1	136	Certified
2-Nitrophenol	EPA 625.1	136	Certified
3,3'-Dichlorobenzidine	EPA 625.1	136	Certified
4-Bromophenyl Phenyl Ether	EPA 625.1	136	Certified
4-Chloro-3-methylphenol	EPA 625.1	136	Certified
4-Chlorophenyl Phenyl Ether	EPA 625.1	136	Certified
4-Nitrophenol	EPA 625.1	136	Certified
Acenaphthene	EPA 625.1	136	Certified
Acenaphthylene	EPA 625.1	136	Certified
Anthracene	EPA 625.1	136	Certified
Benzidine	EPA 625.1	136	Certified
Benzo(a)anthracene	EPA 625.1	136	Certified
Benzo(a)pyrene	EPA 625.1	136	Certified
Benzo(g,h,i)perylene	EPA 625.1	136	Certified
Benzo(k)fluoranthene	EPA 625.1	136	Certified
Benzo[b]fluoranthene	EPA 625.1	136	Certified
bis(2-chloroethoxy)methane	EPA 625.1	136	Certified
bis(2-Chloroethyl)ether	EPA 625.1	136	Certified
bis(2-Ethylhexyl)phthalate (Di(2-ethylhexyl)phthalate)	EPA 625.1	136	Certified
Butyl benzyl phthalate	EPA 625.1	136	Certified
Chrysene	EPA 625.1	136	Certified
Dibenz(a,h)anthracene	EPA 625.1	136	Certified
Diethyl phthalate	EPA 625.1	136	Certified
Dimethyl phthalate	EPA 625.1	136	Certified
Di-n-butyl phthalate	EPA 625.1	136	Certified
Di-n-octyl phthalate	EPA 625.1	136	Certified
Fluoranthene	EPA 625.1	136	Certified
Fluorene	EPA 625.1	136	Certified
Hexachlorobenzene	EPA 625.1	136	Certified
Hexachlorobutadiene (1,3-Hexachlorobutadiene)	EPA 625.1	136	Certified
Hexachlorocyclopentadiene	EPA 625.1	136	Certified
Hexachloroethane	EPA 625.1	136	Certified
Indeno(1,2,3-cd)pyrene	EPA 625.1	136	Certified
Isophorone	EPA 625.1	136	Certified
Naphthalene	EPA 625.1	136	Certified
Nitrobenzene	EPA 625.1	136	Certified
n-Nitrosodimethylamine	EPA 625.1	136	Certified
N-Nitrosodi-n-propylamine	EPA 625.1	136	Certified
N-Nitrosodiphenylamine	EPA 625.1	136	Certified
Pentachlorophenol	EPA 625.1	136	Certified
Phenanthrene	EPA 625.1	136	Certified
Phenol	EPA 625.1	136	Certified
Pyrene	EPA 625.1	136	Certified

Program	Parameter	Method	Source #	Status
Clean Water Act	Alkalinity as CaCO3	SM 2320 B-2011	107	Certified
	Hardness (Total as CaCO3)	SM 2340 B-2011	107	Certified
	Conductivity	SM 2510 B-2011	107	Certified
	Residue-total	SM 2540 B-2015	144	Certified
	Filterable Residue (Total Dissolved Solids)	SM 2540 C-2015	144	Certified
	Chromium VI	SM 3500-Cr B-2011	107	Certified
	Chloride	SM 4500-Cl ⁻ E-2011	107	Certified
	Ammonia as N	SM 4500-NH3 C-2011	107	Certified
	Total Kjeldahl Nitrogen (TKN)	SM 4500-NH3 C-2011	107	Certified
	Sulfide	SM 4500-S(2-) F-2011	107	Certified
	Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	144	Certified
	Carbonaceous Biochemical Oxygen Demand (CBOD)	SM 5210 B-2016	144	Certified
	Surfactants (MBAS)	SM 5540 C-2011	107	Certified
	Non-filterable Residue (Total Suspended Solids)	USGS I-3765-85	39	Certified
Resource Conservation and Recovery Act				
*	Aluminum	SW846 6010D	126	Certified
	Barium	SW846 6010D	126	Certified
	Beryllium	SW846 6010D	126	Certified
	Boron	SW846 6010D	126	Certified
	Cadmium	SW846 6010D	126	Certified
	Calcium	SW846 6010D	126	Certified
	Chromium	SW846 6010D	126	Certified
	Cobalt	SW846 6010D	126	Certified
	Copper	SW846 6010D	126	Certified
	Iron	SW846 6010D	126	Certified
	Lead	SW846 6010D	126	Certified
	Lithium	SW846 6010D	126	Certified
	Magnesium	SW846 6010D	126	Certified
	Manganese	SW846 6010D	126	Certified
	Molybdenum	SW846 6010D	126	Certified
	Nickel	SW846 6010D	126	Certified
	Potassium	SW846 6010D	126	Certified
	Silica	SW846 6010D	126	Certified
	Silver	SW846 6010D	126	Certified
	Sodium	SW846 6010D	126	Certified
	Strontium	SW846 6010D	126	Certified
	Tin	SW846 6010D	126	Certified
	Titanium	SW846 6010D	126	Certified
	Vanadium	SW846 6010D	126	Certified
	Zinc	SW846 6010D	126	Certified
	Antimony	SW846 6020B	126	Certified
	Arsenic	SW846 6020B	126	Certified
	Barium	SW846 6020B	126	Certified
	Beryllium	SW846 6020B	126	Certified
	Cadmium	SW846 6020B	126	Certified
	Chromium	SW846 6020B	126	Certified
	Cobalt	SW846 6020B	126	Certified
	Copper	SW846 6020B	126	Certified

Program	Parameter	Method	Source #	Status
Resource Conservation and Recovery Act	Lead	SW846 6020B	126	Certified
	Manganese	SW846 6020B	126	Certified
	** Mercury	SW846 6020B	126	Certified
	** Molybdenum	SW846 6020B	126	Certified
	Nickel	SW846 6020B	126	Certified
	Selenium	SW846 6020B	126	Certified
	Silver	SW846 6020B	126	Certified
	Thallium	SW846 6020B	126	Certified
	Zinc	SW846 6020B	126	Certified
	Diesel Range Organics	SW846 8015D	101	Certified
	Gasoline Range Organics	SW846 8015D	101	Certified
	Benzene	SW846 8021B	84	Certified
	Ethylbenzene	SW846 8021B	84	Certified
	m+p-Xylene	SW846 8021B	84	Certified
	o-xylene	SW846 8021B	84	Certified
	Toluene	SW846 8021B	84	Certified
	4,4'-DDD	SW846 8081B	96	Certified
	4,4'-DDE	SW846 8081B	96	Certified
	4,4'-DDT	SW846 8081B	96	Certified
	Aldrin	SW846 8081B	96	Certified
	alpha-BHC	SW846 8081B	96	Certified
	beta-BHC	SW846 8081B	96	Certified
	Chlordane (Technical)	SW846 8081B	96	Certified
	delta-BHC	SW846 8081B	96	Certified
	Dieldrin	SW846 8081B	96	Certified
	Endosulfan I	SW846 8081B	96	Certified
	Endosulfan II	SW846 8081B	96	Certified
	Endosulfan Sulfate	SW846 8081B	96	Certified
	Endrin	SW846 8081B	96	Certified
	Endrin Aldehyde	SW846 8081B	96	Certified
	gamma-BHC (Lindane)	SW846 8081B	96	Certified
	Heptachlor	SW846 8081B	96	Certified
	Heptachlor Epoxide	SW846 8081B	96	Certified
	Methoxychlor	SW846 8081B	96	Certified
	Toxaphene	SW846 8081B	96	Certified
	Aroclor 1016	SW846 8082A	96	Certified
	Aroclor 1221	SW846 8082A	96	Certified
	Aroclor 1232	SW846 8082A	96	Certified
	Aroclor 1242	SW846 8082A	96	Certified
	Aroclor 1248	SW846 8082A	96	Certified
	Aroclor 1254	SW846 8082A	96	Certified
	Aroclor 1260	SW846 8082A	96	Certified
	PCBs	SW846 8082A	96	Certified
	1,1,1,2-Tetrachloroethane	SW846 8260D	140	Certified
	1,1,1-Trichloroethane	SW846 8260D	140	Certified
	1,1,2,2-Tetrachloroethane	SW846 8260D	140	Certified
	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	SW846 8260D	140	Certified
	1,1,2-Trichloroethane	SW846 8260D	140	Certified
	1,1-Dichloroethane	SW846 8260D	140	Certified

Program	Parameter	Method	Source #	Status
Resource Conservation and Recovery Act				
	1,1-Dichloroethene	SW846 8260D	140	Certified
	1,1-Dichloropropene	SW846 8260D	140	Certified
	1,2,3-Trichlorobenzene	SW846 8260D	140	Certified
	1,2,3-Trichloropropane	SW846 8260D	140	Certified
	1,2,4-Trichlorobenzene	SW846 8260D	140	Certified
	1,2,4-Trimethylbenzene	SW846 8260D	140	Certified
	1,2-Dibromo-3-chloropropane (DBCP)	SW846 8260D	140	Certified
	1,2-Dibromoethane (EDB)	SW846 8260D	140	Certified
	1,2-Dichlorobenzene	SW846 8260D	140	Certified
	1,2-Dichloroethane	SW846 8260D	140	Certified
	1,2-Dichloropropane	SW846 8260D	140	Certified
	1,3,5-Trimethylbenzene	SW846 8260D	140	Certified
	1,3-Dichlorobenzene	SW846 8260D	140	Certified
	1,3-Dichloropropane	SW846 8260D	140	Certified
	1,4-Dichlorobenzene	SW846 8260D	140	Certified
	2,2-Dichloropropane	SW846 8260D	140	Certified
	2-Butanone	SW846 8260D	140	Certified
*	2-Chloroethyl vinyl ether	SW846 8260D	140	Certified
	2-Chlorotoluene	SW846 8260D	140	Certified
*	2-Hexanone	SW846 8260D	140	Certified
	4-Chlorotoluene	SW846 8260D	140	Certified
	4-Isopropyltoluene	SW846 8260D	140	Certified
	4-methyl 2-pentanone (MIBK)	SW846 8260D	140	Certified
	Acetone (2-Propanone)	SW846 8260D	140	Certified
*	Acrolein	SW846 8260D	140	Certified
*	Acrylonitrile	SW846 8260D	140	Certified
	Allyl chloride (3-Chloropropene)	SW846 8260D	140	Certified
	Benzene	SW846 8260D	140	Certified
	Bromobenzene	SW846 8260D	140	Certified
	Bromochloromethane	SW846 8260D	140	Certified
	Bromodichloromethane	SW846 8260D	140	Certified
	Bromoform	SW846 8260D	140	Certified
	Bromomethane (Methyl bromide)	SW846 8260D	140	Certified
*	Carbon Disulfide	SW846 8260D	140	Certified
	Carbon Tetrachloride	SW846 8260D	140	Certified
	Chlorobenzene	SW846 8260D	140	Certified
	Chlorodibromomethane	SW846 8260D	140	Certified
	Chloroethane	SW846 8260D	140	Certified
	Chloroform	SW846 8260D	140	Certified
	Chloromethane (Methyl Chloride)	SW846 8260D	140	Certified
	cis-1,2-Dichloroethene	SW846 8260D	140	Certified
	cis-1,3-Dichloropropene	SW846 8260D	140	Certified
	Dibromomethane	SW846 8260D	140	Certified
	Dichlorodifluoromethane (Freon 12)	SW846 8260D	140	Certified
	Diethyl Ether	SW846 8260D	140	Certified
*	Ethanol	SW846 8260D	140	Certified
	Ethylbenzene	SW846 8260D	140	Certified
	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	SW846 8260D	140	Certified
*	Iodomethane (Methyl iodide)	SW846 8260D	140	Certified

Program	Parameter	Method	Source #	Status
Resource Conservation and Recovery Act	Isopropylbenzene	SW846 8260D	140	Certified
	m+p-Xylene	SW846 8260D	140	Certified
	Methylene chloride	SW846 8260D	140	Certified
	Methyl-t-butyl ether (MTBE)	SW846 8260D	140	Certified
	Naphthalene	SW846 8260D	140	Certified
	n-Butylbenzene	SW846 8260D	140	Certified
	n-Propylbenzene	SW846 8260D	140	Certified
	o-xylene	SW846 8260D	140	Certified
	* Pentachloroethane	SW846 8260D	140	Certified
	sec-Butylbenzene	SW846 8260D	140	Certified
	Styrene	SW846 8260D	140	Certified
	tert-Butylbenzene	SW846 8260D	140	Certified
	Tetrachloroethene	SW846 8260D	140	Certified
	Tetrahydrofuran	SW846 8260D	140	Certified
	Toluene	SW846 8260D	140	Certified
	trans-1,2-Dichloroethene	SW846 8260D	140	Certified
	trans-1,3-Dichloropropene	SW846 8260D	140	Certified
	* trans-1,4-Dichloro-2-butene	SW846 8260D	140	Certified
	Trichloroethene (Trichloroethylene)	SW846 8260D	140	Certified
	Trichlorofluoromethane (Freon 11)	SW846 8260D	140	Certified
	* Vinyl Acetate	SW846 8260D	140	Certified
	Vinyl chloride (chloroethene)	SW846 8260D	140	Certified
	1,2,4,5-Tetrachlorobenzene	SW846 8270E	140	Certified
	1,2,4-Trichlorobenzene	SW846 8270E	140	Certified
	1,2-Dichlorobenzene	SW846 8270E	140	Certified
	1,2-Diphenylhydrazine	SW846 8270E	140	Certified
	1,3-Dichlorobenzene	SW846 8270E	140	Certified
	1,4-Dichlorobenzene	SW846 8270E	140	Certified
	* 1,4-Dioxane	SW846 8270E	140	Certified
	1-Chloronaphthalene	SW846 8270E	140	Certified
	* 1-Naphthylamine	SW846 8270E	140	Certified
	2,2'-oxybis(1-Chloropropane)	SW846 8270E	140	Certified
	2,3,4,6-Tetrachlorophenol	SW846 8270E	140	Certified
	2,4,5-Trichlorophenol	SW846 8270E	140	Certified
	2,4,6-Trichlorophenol	SW846 8270E	140	Certified
	2,4-Dichlorophenol	SW846 8270E	140	Certified
	2,4-Dimethylphenol	SW846 8270E	140	Certified
	2,4-Dinitrophenol	SW846 8270E	140	Certified
	2,4-Dinitrotoluene	SW846 8270E	140	Certified
	2,6-Dichlorophenol	SW846 8270E	140	Certified
	2,6-Dinitrotoluene	SW846 8270E	140	Certified
	2-Chloronaphthalene	SW846 8270E	140	Certified
	2-Chlorophenol	SW846 8270E	140	Certified
	2-Methyl-4,6-dinitrophenol	SW846 8270E	140	Certified
	2-Methylnaphthalene	SW846 8270E	140	Certified
	2-Methylphenol (o-Cresol)	SW846 8270E	140	Certified
	2-Naphthylamine	SW846 8270E	140	Certified
	2-Nitroaniline	SW846 8270E	140	Certified
	2-Nitrophenol	SW846 8270E	140	Certified

Program	Parameter	Method	Source #	Status
Resource Conservation and Recovery Act	2-Picoline	SW846 8270E	140	Certified
	3,3'-Dichlorobenzidine	SW846 8270E	140	Certified
	3-Methylcholanthrene	SW846 8270E	140	Certified
	3-Methylphenol	SW846 8270E	140	Certified
	3-Nitroaniline	SW846 8270E	140	Certified
	4-Aminobiphenyl	SW846 8270E	140	Certified
	4-Bromophenyl Phenyl Ether	SW846 8270E	140	Certified
	4-Chloro-3-methylphenol	SW846 8270E	140	Certified
	4-Chloroaniline	SW846 8270E	140	Certified
	4-Chlorophenyl Phenyl Ether	SW846 8270E	140	Certified
	4-Dimethyl aminoazobenzene	SW846 8270E	140	Certified
	4-Methylphenol (p-Cresol)	SW846 8270E	140	Certified
	4-Nitroaniline	SW846 8270E	140	Certified
	4-Nitrobiphenyl	SW846 8270E	140	Certified
	4-Nitrophenol	SW846 8270E	140	Certified
	7,12-Dimethylbenz(a)anthracene	SW846 8270E	140	Certified
	Acenaphthene	SW846 8270E	140	Certified
	Acenaphthylene	SW846 8270E	140	Certified
	Acetophenone	SW846 8270E	140	Certified
	alpha,alpha-Dimethylphenethylamine	SW846 8270E	140	Certified
	Aniline	SW846 8270E	140	Certified
	Anthracene	SW846 8270E	140	Certified
	Benzidine	SW846 8270E	140	Certified
	Benzo(a)anthracene	SW846 8270E	140	Certified
	Benzo(a)pyrene	SW846 8270E	140	Certified
	Benzo(g,h,i)perylene	SW846 8270E	140	Certified
	Benzo(k)fluoranthene	SW846 8270E	140	Certified
	Benzo[b]fluoranthene	SW846 8270E	140	Certified
	Benzoic Acid	SW846 8270E	140	Certified
	Benzyl Alcohol	SW846 8270E	140	Certified
	bis(2-chloroethoxy)methane	SW846 8270E	140	Certified
	bis(2-Chloroethyl)ether	SW846 8270E	140	Certified
	Butyl benzyl phthalate	SW846 8270E	140	Certified
	Chrysene	SW846 8270E	140	Certified
	Di(2-ethylhexyl)phthalate	SW846 8270E	140	Certified
	Dibenz(a,h)anthracene	SW846 8270E	140	Certified
	Dibenz(a,j)acridine	SW846 8270E	140	Certified
	Dibenzofuran	SW846 8270E	140	Certified
	Diethyl phthalate	SW846 8270E	140	Certified
	Dimethyl phthalate	SW846 8270E	140	Certified
	Di-n-butyl phthalate	SW846 8270E	140	Certified
	Di-n-octyl phthalate	SW846 8270E	140	Certified
	Diphenylamine	SW846 8270E	140	Certified
	* Ethyl methane sulfonate	SW846 8270E	140	Certified
	Fluoranthene	SW846 8270E	140	Certified
	Fluorene	SW846 8270E	140	Certified
	Hexachlorobenzene	SW846 8270E	140	Certified
	Hexachlorobutadiene (1,3-Hexachlorobutadiene)	SW846 8270E	140	Certified
	Hexachlorocyclopentadiene	SW846 8270E	140	Certified

Program	Parameter	Method	Source #	Status
Resource Conservation and Recovery Act	Hexachloroethane	SW846 8270E	140	Certified
	Indeno(1,2,3-cd)pyrene	SW846 8270E	140	Certified
	Isophorone	SW846 8270E	140	Certified
	Methyl methanesulfonate	SW846 8270E	140	Certified
	Naphthalene	SW846 8270E	140	Certified
	Nitrobenzene	SW846 8270E	140	Certified
	n-Nitrosodimethylamine	SW846 8270E	140	Certified
	n-Nitroso-di-n-butylamine	SW846 8270E	140	Certified
	N-Nitrosodi-n-propylamine	SW846 8270E	140	Certified
	N-Nitrosodiphenylamine	SW846 8270E	140	Certified
	N-Nitrosopiperidine	SW846 8270E	140	Certified
	Pentachlorobenzene	SW846 8270E	140	Certified
	Pentachloronitrobenzene	SW846 8270E	140	Certified
	Pentachlorophenol	SW846 8270E	140	Certified
	Phenacetin	SW846 8270E	140	Certified
	Phenanthrene	SW846 8270E	140	Certified
	Phenol	SW846 8270E	140	Certified
	Pyrene	SW846 8270E	140	Certified
	* 1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2	SW846 8327	158	Certified
	* 1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2	SW846 8327	158	Certified
	* 1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2 FTS)	SW846 8327	158	Certified
	* N-ethyl perfluorooctanesulfonamidoacetic acid	SW846 8327	158	Certified
	* N-methyl perfluorooctanesulfonamidoacetic acid	SW846 8327	158	Certified
	* Perfluorobutanesulfonic acid (PFBS, Perfluorobutane	SW846 8327	158	Certified
	* Perfluorobutanoic acid	SW846 8327	158	Certified
	* Perfluorodecane sulfonic acid (PFDS)	SW846 8327	158	Certified
	* Perfluorodecanoic acid (PFDA)	SW846 8327	158	Certified
	* Perfluorododecanoic acid (PFDoA)	SW846 8327	158	Certified
	* Perfluoroheptanesulfonic acid (PFHpS,	SW846 8327	158	Certified
	* Perfluoroheptanoic acid (PFHpA,	SW846 8327	158	Certified
	* Perfluorohexanesulfonic acid (PFHxS,	SW846 8327	158	Certified
	* Perfluorohexanoic acid (PFHxA)	SW846 8327	158	Certified
	* Perfluorononane sulfonic acid (PFNS)	SW846 8327	158	Certified
	* Perfluorononanoic acid (PFNA, Perfluorononanoate)	SW846 8327	158	Certified
	* Perfluorooctanesulfonic acid (PFOS, Perfluorooctane	SW846 8327	158	Certified
	* Perfluorooctanoic acid (PFOA, Perfluorooctanoate)	SW846 8327	158	Certified
	* Perfluoropentane sulfonic acid (PFPeS)	SW846 8327	158	Certified
	* Perfluoropentanoic acid (PFPEA)	SW846 8327	158	Certified
	* Perfluorotetradecanoic acid (PFTA)	SW846 8327	158	Certified
	* Perfluorotridecanoic acid (PFTrDA)	SW846 8327	158	Certified
	* Perfluoroundecanoic acid	SW846 8327	158	Certified
	Diesel Range Organics	WI(95) DRO	119	Certified
Safe Drinking Water Act	Sulfate	ASTM D516-11	139	Certified
	Sulfate	ASTM D516-16	158	Certified
	Turbidity	EPA 180.1	9	Certified
	Aluminum	EPA 200.7	2	Certified
	Barium	EPA 200.7	2	Certified

Program*Safe Drinking Water Act***Parameter****Method****Source # Status**

Calcium	EPA 200.7	2	Certified
Chromium	EPA 200.7	2	Certified
Copper	EPA 200.7	2	Certified
Iron	EPA 200.7	2	Certified
Magnesium	EPA 200.7	2	Certified
Manganese	EPA 200.7	2	Certified
Nickel	EPA 200.7	2	Certified
Silica as SiO ₂	EPA 200.7	2	Certified
Silver	EPA 200.7	2	Certified
Sodium	EPA 200.7	2	Certified
Zinc	EPA 200.7	2	Certified
Antimony	EPA 200.8	2	Certified
Arsenic	EPA 200.8	2	Certified
Barium	EPA 200.8	2	Certified
Beryllium	EPA 200.8	2	Certified
Cadmium	EPA 200.8	2	Certified
Chromium	EPA 200.8	2	Certified
Copper	EPA 200.8	2	Certified
Lead	EPA 200.8	2	Certified
Manganese	EPA 200.8	2	Certified
Mercury	EPA 200.8	2	Certified
Nickel	EPA 200.8	2	Certified
Selenium	EPA 200.8	2	Certified
Silver	EPA 200.8	2	Certified
Thallium	EPA 200.8	2	Certified
Zinc	EPA 200.8	2	Certified
Bromide	EPA 300.0	9	Certified
Chloride	EPA 300.0	9	Certified
Fluoride	EPA 300.0	9	Certified
Nitrate as N	EPA 300.0	9	Certified
Nitrite as N	EPA 300.0	9	Certified
Sulfate	EPA 300.0	9	Certified
Cyanide	EPA 335.4	9	Certified
Nitrate as N	EPA 353.2	9	Certified
Nitrite as N	EPA 353.2	9	Certified
Alkalinity	SM 2320 B-2011	107	Certified
Hardness (Calcium)	SM 2340 B-1997	6	Certified
Conductivity	SM 2510 B-2011	107	Certified
Filterable Residue (Total Dissolved Solids)	SM 2540 C-2015	144	Certified
Foaming Agents	SM 5540 C-2011	107	Certified

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
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Symbol Reference

- * Limited to RCRA Water Samples Only
- ** Limited to RCRA Solid Samples Only

Source Reference

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| 2 | "Methods for the Determination of Metals in Environmental Samples - Supplement I", EPA/600/R-94/111, May 1994 |
| 6 | Standard Methods for the Examination of Water and Wastewater, 20th edition (1998), American Public Health Association |
| 9 | "Methods for the Determination of Inorganic Substances in Environmental Samples", EPA/600/R-93-100, August 1993 |
| 39 | "Methods for Analysis of Inorganic Substances in Water and Fluvial Sediments," U.S. Department of the Interior, Techniques of Water-Resource Investigations of the U.S. Geological Survey, Denver, CO, Revised 1989, unless otherwise stated |
| 70 | "Methods for Chemical Analysis of Water and Wastes" Environmental Protection Agency, EPA-600/4-79-020, revised March 1983 and 1979 where applicable |
| 80 | USEPA Method 1631, Revision E, "Mercury in Water by Oxidation., Purge and Trap, and Cold Vapor Atomic Fluorescence Spectrometry," September 2002, Office of Water, U.S. Environmental Protection Agency (EPA-821-R-02-024). |
| 84 | Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update III, December 1996, EPA Office of Solid Waste and Emergency Response |
| 89 | Method 245.7, Rev. 2.0, "Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry," February 2005, EPA-821-R-05-001, available from the U.S. EPA Sample Control Center (operated by CSC), 6101 Stevenson Avenue, Alexandria, VA 22304. |
| 96 | Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update IV, February 2007, EPA Office of Solid Waste and Emergency Response |
| 101 | www.epa.gov/sw-846 (SW-846 On-Line: New Methods) |
| 107 | Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association |
| 111 | www.epa.gov/waterscience/methods/ |
| 119 | Wisconsin DNR Modified DRO Method, Wisconsin DNR September 1995 |
| 126 | Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update V, August 2015, EPA Office of Solid Waste and Emergency Response |
| 136 | 40 CFR Part 136, Appendix A, 2017 Method Update Rule |
| 139 | Annual Book of ASTM Standards, Section Eleven - Water and Environmental Technology, Volume 11.01, 2011 or Later, ASTM International, West Conshohocken, PA |
| 140 | Test Methods for Evaluating Solid Waste: Physical/Chemical Methods Compendium (SW-846), Update VI, Phase II, Completed July 12, 2018 |
| 144 | Standard Methods for the Examination of Water and Wastewater, 23rd Edition, American Public Health Association |
| 158 | SW-846 Update VII, Phase 2 Method 8327 for Per- and Polyfluoroalkyl Substances (PFAS) by Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Summer 2021 Author: United States Environmental Protection Agency Docket No. EPA-HQ-OLEM-2018-0846 |
| 159 | Annual Book of ASTM Standards, Section Eleven - Water and Environmental Technology, Volume 11.01, 2016 or any year containing the cited version of the method, ASTM International, West Conshohocken, PA |