

# 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. - 2616 East Broadway Avenue - Bismarck, ND

by

State of Minnesota Department of Health, ELCP


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: ND-016

Date of Issue: January 11, 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

  
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Certification Officer



***Certified Parameters for  
Minnesota Valley Testing Laboratories, Inc.  
2616 East Broadway Avenue, Bismarck, ND***

***Issued by  
North Dakota Department of Environmental Quality  
Division of Chemistry  
January 11, 2023***

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

***Lab Certification No: ND-016***

***Based on Certificate No: 2405647***

***From the State of Minnesota Department of Health, ELCP***

<b><i>Program</i></b>	<b><i>Parameter</i></b>	<b><i>Method</i></b>	<b><i>Source #</i></b>	<b><i>Status</i></b>
<b><i>Clean Water Act</i></b>	Sulfate	ASTM D516-16	159	Certified
	Oil and Grease (HEM)	EPA 1664 B	111	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
	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
	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

**Program**  
**Clean Water Act**

**Parameter**

**Method**

**Source # Status**

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
Vanadium	EPA 200.8	2	Certified
Mercury	EPA 245.1	2	Certified
Cyanide (Total)	EPA 335.4	9	Certified
Ammonia as N	EPA 350.1	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
Phenolics (Total)	EPA 420.4	9	Certified
Chemical Oxygen Demand (COD)	Hach 8000	45	Certified
Total Kjeldahl Nitrogen (TKN)	PAI-DK01	103	Certified
Turbidity	SM 2130 B-2011	107	Certified
Alkalinity as CaCO3	SM 2320 B-2011	107	Certified
Total Hardness as CaCO3	SM 2340 B-2011	107	Certified
Conductivity	SM 2510 B-2011	107	Certified
Chloride	SM 4500 Cl-E-2011	107	Certified
pH	SM 4500-H+B-2011	107	Certified
Biochemical Oxygen Demand (BOD)	SM 5210 B-2016	144	Certified
Total Organic Carbon (TOC)	SM 5310 C-2014 (23rd Ed)	144	Certified
Filterable Residue (Total Dissolved Solids)	USGS I-1750-85	39	Certified
Total Solids	USGS I-3750-85	39	Certified
Non-filterable Residue (Total Suspended Solids)	USGS I-3765-85	39	Certified

**Resource Conservation and Recovery Act**

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Ignitability	SW846 1020B	85	Certified
Aluminum	SW846 6010D	131	Certified
Barium	SW846 6010D	131	Certified
Beryllium	SW846 6010D	131	Certified
Boron	SW846 6010D	131	Certified
Cadmium	SW846 6010D	131	Certified
Calcium	SW846 6010D	131	Certified
Chromium	SW846 6010D	131	Certified
Cobalt	SW846 6010D	131	Certified
Copper	SW846 6010D	131	Certified
Iron	SW846 6010D	131	Certified
Lead	SW846 6010D	131	Certified
Magnesium	SW846 6010D	131	Certified
Manganese	SW846 6010D	131	Certified
Molybdenum	SW846 6010D	131	Certified
Nickel	SW846 6010D	131	Certified

<i>Program</i>	<i>Parameter</i>	<i>Method</i>	<i>Source #</i>	<i>Status</i>
<i>Resource Conservation and Recovery Act</i>	Potassium	SW846 6010D	131	Certified
	Sodium	SW846 6010D	131	Certified
	Strontium	SW846 6010D	131	Certified
	Tin	SW846 6010D	131	Certified
	Titanium	SW846 6010D	131	Certified
	Vanadium	SW846 6010D	131	Certified
	Zinc	SW846 6010D	131	Certified
	Antimony	SW846 6020B	131	Certified
	Arsenic	SW846 6020B	131	Certified
	Barium	SW846 6020B	131	Certified
	Beryllium	SW846 6020B	131	Certified
	Cadmium	SW846 6020B	131	Certified
	Chromium	SW846 6020B	131	Certified
	Cobalt	SW846 6020B	131	Certified
	Copper	SW846 6020B	131	Certified
	Lead	SW846 6020B	131	Certified
	Manganese	SW846 6020B	131	Certified
	Molybdenum	SW846 6020B	131	Certified
	Nickel	SW846 6020B	131	Certified
	Selenium	SW846 6020B	131	Certified
	Silver	SW846 6020B	131	Certified
	Thallium	SW846 6020B	131	Certified
	Uranium	SW846 6020B	131	Certified
	Vanadium	SW846 6020B	131	Certified
	* Mercury	SW846 7470A	82	Certified
	** Mercury	SW846 7471B	96	Certified
<i>Safe Drinking Water Act</i>	Sulfate	ASTM D516-16	156	Certified
	Aluminum	EPA 200.7	2	Certified
	Barium	EPA 200.7	2	Certified
	Calcium	EPA 200.7	2	Certified
	Chromium	EPA 200.7	2	Certified
	Copper	EPA 200.7	2	Certified
	Magnesium	EPA 200.7	2	Certified
	Manganese	EPA 200.7	2	Certified
	Nickel	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
	Nickel	EPA 200.8	2	Certified

<b>Program</b>	<b>Parameter</b>	<b>Method</b>	<b>Source #</b>	<b>Status</b>
<b>Safe Drinking Water Act</b>	Selenium	EPA 200.8	2	Certified
	Silver	EPA 200.8	2	Certified
	Thallium	EPA 200.8	2	Certified
	Uranium	EPA 200.8	2	Certified
	Mercury	EPA 245.1	2	Certified
	Cyanide	EPA 335.4	9	Certified
	Nitrate as N	EPA 353.2	9	Certified
	Nitrite as N	EPA 353.2	9	Certified
	Orthophosphate as P	EPA 365.1	9	Certified
	Conductivity	SM 2510 B-2011	107	Certified
	Filterable Residue (Total Dissolved Solids)	SM 2540 C-2015	144	Certified
	Chloride	SM 4500-Cl <sup>-</sup> E-2011	107	Certified
	Fluoride	SM 4500-F <sup>-</sup> C-2011	107	Certified
	pH	SM 4500-H <sup>+</sup> B-2011	107	Certified
	Total Organic Carbon (TOC)	SM 5310 C-2014 (23rd Ed)	144	Certified

### **Symbol Reference**

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

### **Source Reference**

- 2 "Methods for the Determination of Metals in Environmental Samples - Supplement I", EPA/600/R-94/111, May 1994
- 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
- 45 Hach Handbook of Water Analysis, 1979, Hach Chemical Company, Loveland, CO
- 82 Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update II, September 1994, EPA Office of Solid Waste and Emergency Response
- 85 Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Final Update IIIB, November 2004, EPA Office of Solid Waste and Emergency Response
- 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
- 103 OI Analytical/ALPKEM, P.O. Box 9010, College Station, TX, Revised 12/22/94.
- 107 Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association
- 111 [www.epa.gov/waterscience/methods/](http://www.epa.gov/waterscience/methods/)
- 131 Test Methods for Evaluating Solid Waste Physical Chemical Methods (SW846) Third Edition, as amended by Update V, July 2014, EPA Office of Solid Waste and Emergency Response
- 144 Standard Methods for the Examination of Water and Wastewater, 23rd Edition, American Public Health Association
- 156 ASTM 2016 EDITION - Standard Test Method for Sulfate Ion in Water - June 15, 2016
- 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