

**Certified Parameters for
RMB Environmental Laboratories, Inc.
22796 Co HWY 6, Detroit Lakes, MN**

**Issued by
North Dakota Department of Environmental Quality
Division of Chemistry
October 27, 2020**

Certification Period: October 8, 2020 through December 31, 2020

Lab Certification No: R-187

Based on Certificate No: 1948094

From the State of Minnesota Department of Health, ELCP

| Program | Parameter | Method | Source # | Status |
|------------------------|---|-------------------------------|-----------------|---------------|
| Clean Water Act | Color | 2120 B-2011 | 107 | Certified |
| | Alkalinity | 2320 B-2011 | 107 | Certified |
| | Conductivity | 2510 B-2011 | 107 | Certified |
| | Total Solids | 2540 B-2011 | 107 | Certified |
| | Filterable Residue (Total Dissolved Solids) | 2540 C-2011 | 107 | Certified |
| | Non-filterable Residue (Total Suspended Solids) | 2540 D-2011 | 107 | Certified |
| | Chloride | 4500-Cl ⁻ E-2011 | 107 | Certified |
| | Fluoride | 4500-F ⁻ C-2011 | 107 | Certified |
| | Silica (Dissolved) | 4500-SiO ₂ C-2011 | 107 | Certified |
| | Chemical Oxygen Demand (COD) | 5220 D-2011 | 107 | Certified |
| | Escherichia coli | 9223 B-2004 | 91 | Certified |
| | Sulfate | ASTM D516-11 | 110 | Certified |
| | Fecal coliforms | Colilert-18 (Fecal Coliforms) | 130 | Certified |
| | Hardness (Total) | EPA 130.1 | 70 | Certified |
| | Volatile Solids | EPA 160.4 | 70 | Certified |
| | Turbidity | EPA 180.1 | 9 | Certified |
| | Arsenic | EPA 200.9 | 2 | Certified |
| | Lead | EPA 200.9 | 2 | Certified |
| | Alkalinity | EPA 310.2 | 70 | Certified |
| | Ammonia as N | EPA 350.1 | 9 | Certified |
| | Total Kjeldahl Nitrogen (TKN) | EPA 351.2 | 9 | Certified |
| | Nitrate + Nitrite | 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 365.3 | 70 | Certified |
| | Phosphorus (Total) | EPA 365.3 | 70 | Certified |
| | Biochemical Oxygen Demand (BOD) | Hach 10360 Rev 1.2 (2011) | 114 | Certified |
| | Carbonaceous Biochemical Oxygen Demand (CBOD) | Hach 10360 Rev 1.2 (2011) | 114 | Certified |
| | Ammonia as N | Timberline Ammonia 001 | 152 | Certified |
| | Total Kjeldahl Nitrogen (TKN) | Timberline Ammonia 001 | 152 | Certified |
| | Non-filterable Residue (Total Suspended Solids) | USGS I-3765-85 | 39 | Certified |

Safe Drinking Water Act

Tuesday, October 27, 2020

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| Program | Parameter | Method | Source # | Status |
|--------------------------------|---|-------------------------------|-----------------|---------------|
| Safe Drinking Water Act | Alkalinity as CaCO ₃ | 2320 B-2011 (23rd Ed) | 144 | Certified |
| | Conductivity | 2510 B-2011 | 107 | Certified |
| | Filterable Residue (Total Dissolved Solids) | 2540 C-2015 (23rd Ed) | 144 | Certified |
| | Fluoride | 4500-F ⁻ C-2011 | 107 | Certified |
| | Escherichia coli | 9223 B (Collert Quanti-Tray)- | 127 | Certified |
| | Total coliforms | 9223 B (Collert Quanti-Tray)- | 127 | Certified |
| | Escherichia coli | 9223 B (Collert)-2004 | 91 | Certified |
| | Total coliforms | 9223 B (Collert)-2004 | 91 | Certified |
| | Escherichia coli | 9223 B-2016 (23rd Ed) | 148 | Certified |
| | Total coliforms | 9223 B-2016 (23rd Ed) | 148 | Certified |
| | Escherichia coli | Colisure | 122 | Certified |
| | Total coliforms | Colisure | 122 | Certified |
| | Turbidity | EPA 180.1 | 9 | Certified |
| | Arsenic | EPA 200.9 | 2 | Certified |
| | Copper | EPA 200.9 | 2 | Certified |
| | Lead | EPA 200.9 | 2 | Certified |
| | Nitrate as N | EPA 353.2 | 9 | Certified |
| | Nitrite as N | EPA 353.2 | 9 | Certified |

Symbol Reference

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
- 70 "Methods for Chemical Analysis of Water and Wastes" Environmental Protection Agency, EPA-600/4-79-020, revised March 1983 and 1979 where applicable
- 91 Standard Methods for the Examination of Water and Wastewater, 21st Edition (2005), American Public Health Association
- 107 Standard Methods for the Examination of Water and Wastewater, 22nd Edition, American Public Health Association
- 110 Annual Book of ASTM Standards, Section Eleven - Water and Environmental Technology, Volume 11.01, 2008 or Later, ASTM International, West Conshohocken, PA
- 114 Note 63, Federal Register/Vol. 77, No. 97/ Friday, May 18, 2012 / Rules and Regulations: Hach Method 10360, Luminescence Measurement of Dissolved Oxygen in Water and Wastewater and for Use in the Determination of BOD₅ and cBOD₅. Revision 1.2, October 2011. H
- 122 TCR (40 CFR 141.21 (f) (3) and (f) (6) (iv))
- 127 40 CFR 141.21 and memorandums: from William R Diamond, OGWDW, February, 1996; and Cynthia C. Dougherty, OGWDW, September 10, 1996
- 130 40 CFR 136.3, Table IA, Method Update Rule, final prepub 12-15-2016
- 144 Standard Methods for the Examination of Water and Wastewater, 23rd Edition, American Public Health Association
- 148 Appendix A to Subpart C of Part 141-Alternative Testing Methods Approved for Analyses Under the Safe Drinking Water Act, footnote 49: Standard Methods for the Examination of Water and Wastewater, 23rd edition (2017). Available from American Public Health
- 152 Timberline Instruments, LLC Method Ammonia-001, "Determination of Inorganic Ammonia by Continuous Flow Gas Diffusion and Conductivity Cell Analysis," June 2011, Timberline Instruments, LLC.; 40 CFR 136.3, Table IB, Footnote 74