

Northern Lake Service Inc. (Crandon)
400 North Lake Ave
Crandon, WI 54520-1286

Laboratory Id: **721026460**
 Expiration Date: **08/31/21**
 Issued Date: **03/05/21**

Wisconsin Certification under NR 149
Matrix: Aqueous (Non-potable Water)

<p>Class: General Chemistry</p> <ul style="list-style-type: none"> Alkalinity <i>by Titration</i> Ammonia as N <i>by Colorimetric</i> Ammonia as N <i>by ISE</i> Biochemical Oxygen Demand (BOD) <i>by Oxygen Dem</i> Bromide <i>by IC</i> Carbonaceous Oxygen Demand (cBOD) <i>by Oxygen Dem</i> Chemical Oxygen Demand (COD) <i>by Titration</i> Chloride <i>by IC</i> Chlorophyll <i>by Colorimetric</i> Cyanide, Available <i>by Colorimetric</i> Cyanide, Total <i>by Colorimetric</i> Fluoride <i>by IC</i> Hardness, Total as CaCO₃ <i>by ICP</i> Kjeldahl Nitrogen, Total <i>by Colorimetric</i> Nitrate <i>by Colorimetric</i> Nitrate <i>by IC</i> Nitrate + Nitrite <i>by Colorimetric</i> Nitrate + Nitrite <i>by IC</i> Nitrite <i>by Colorimetric</i> Nitrite <i>by IC</i> Oil & Grease HEM <i>by Oil & Grease HEM</i> Organic Carbon, Total (TOC) <i>by NDIR Coulometric</i> Orthophosphate <i>by Colorimetric</i> Phenolics, Total <i>by Colorimetric</i> Phosphorus, Total <i>by Colorimetric</i> Residue, Filterable (TDS) <i>by Gravimetric</i> Residue, Nonfilterable (TSS) <i>by Gravimetric</i> Residue, Total <i>by Gravimetric</i> Residue, Volatile (TVS) <i>by Gravimetric</i> Residue, Volatile, Nonfilterable (TVSS) <i>by Gravimetric</i> Specific Conductance <i>by ISE</i> Sulfate <i>by IC</i> Sulfide <i>by Titration</i> Sulfite <i>by Titration</i> pH <i>by ISE</i> 	<p>Class: Metals</p> <ul style="list-style-type: none"> Beryllium <i>by ICP/MS</i> Boron <i>by ICP</i> Cadmium <i>by ICP</i> Cadmium <i>by ICP/MS</i> Calcium <i>by ICP</i> Calcium <i>by ICP/MS</i> Chromium, Hexavalent <i>by Colorimetric</i> Chromium, Total <i>by ICP</i> Chromium, Total <i>by ICP/MS</i> Cobalt <i>by ICP</i> Cobalt <i>by ICP/MS</i> Copper <i>by ICP</i> Copper <i>by ICP/MS</i> Iron <i>by ICP</i> Iron <i>by ICP/MS</i> Lead <i>by ICP</i> Lead <i>by ICP/MS</i> Lithium <i>by ICP</i> Lithium <i>by ICP/MS</i> Magnesium <i>by ICP</i> Magnesium <i>by ICP/MS</i> Manganese <i>by ICP</i> Manganese <i>by ICP/MS</i> Mercury <i>by Hyd-CVAA</i> Mercury <i>by ICP/MS</i> Mercury <i>by Ultra-Low</i> Molybdenum <i>by ICP</i> Molybdenum <i>by ICP/MS</i> Nickel <i>by ICP</i> Nickel <i>by ICP/MS</i> Potassium <i>by ICP</i> Potassium <i>by ICP/MS</i> Selenium <i>by ICP</i> Selenium <i>by ICP/MS</i> Silver <i>by ICP</i> Silver <i>by ICP/MS</i> Sodium <i>by ICP</i> Sodium <i>by ICP/MS</i> Strontium <i>by ICP</i> Strontium <i>by ICP/MS</i> Thallium <i>by ICP</i> Thallium <i>by ICP/MS</i> Tin <i>by ICP</i> Tin <i>by ICP/MS</i> Titanium <i>by ICP</i>
<p>Class: Metals</p> <ul style="list-style-type: none"> Aluminum <i>by ICP</i> Aluminum <i>by ICP/MS</i> Antimony <i>by ICP</i> Antimony <i>by ICP/MS</i> Arsenic <i>by ICP</i> Arsenic <i>by ICP/MS</i> Barium <i>by ICP</i> Barium <i>by ICP/MS</i> Beryllium <i>by ICP</i> 	

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Matrix: Aqueous (Non-potable Water)

<p>Class: Metals Titanium <i>by ICP/MS</i> Vanadium <i>by ICP</i> Vanadium <i>by ICP/MS</i> Zinc <i>by ICP</i> Zinc <i>by ICP/MS</i></p>	<p>Class: Petroleum Hydrocarbons Gasoline Range Organics (GRO) <i>by GC</i></p> <p>Class: PCBs as Aroclors ## PCB as AROCLORS (group) <i>by GC</i></p> <p>Class: Volatile Organic Compounds ## VOC - VOLATILE ORGANICS (group) <i>by GC/MS</i></p>
<p>Class: Base, Neutral, and Acid Extractable Semivolatile C ## BNA - SEMIVOLATILE ORGANICS (group) <i>by GC/MS</i></p>	
<p>Class: Polynuclear Aromatic Hydrocarbons (PAH) (BN) ## PAH (group) <i>by GC/MS</i></p>	
<p>Class: Pesticides, Organochlorine ## PESTICIDES, ORGANOCHLORINE (group) <i>by GC</i></p>	
<p>Class: Pesticides, Nitrogen Alachlor <i>by GC/MS</i> Butylate <i>by GC/MS</i> Metolachlor <i>by GC/MS</i> Metribuzin <i>by GC/MS</i> Propachlor <i>by GC/MS</i> Trifluralin <i>by GC/MS</i></p>	
<p>Class: Pesticides, Organophosphorus Chlorpyrifos <i>by GC/MS</i> Dimethoate <i>by GC/MS</i> Disulfoton <i>by GC/MS</i> Fonofos <i>by GC/MS</i> Parathion (Parathion Ethyl) <i>by GC/MS</i> Parathion Methyl <i>by GC/MS</i> Phorate <i>by GC/MS</i> Terbufos <i>by GC/MS</i></p>	
<p>Class: Pesticides, Triazines Atrazine <i>by GC/MS</i> Cyanazine <i>by GC/MS</i> Deethylatrazine <i>by GC/MS</i> Deisopropylatrazine <i>by GC/MS</i> Prometon <i>by GC/MS</i> Propazine <i>by GC/MS</i> Simazine <i>by GC/MS</i></p>	
<p>Class: Pesticides, Carbamate EPTC (Eptam) <i>by GC/MS</i></p>	
<p>Class: Petroleum Hydrocarbons ## PVOC - Petroleum VOCs (group) <i>by GC</i> ## PVOC - Petroleum VOCs (group) <i>by GC/MS</i> Diesel Range Organics (DRO) <i>by GC</i></p>	

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Wisconsin Certification under NR 149 Matrix: Drinking Water (Potable Water)

<p>Class: SDWA - Disinfection By-products ## HALOACETIC ACIDS (5) - EPA 552.3 Bromide - EPA 300.0</p>	<p>Class: SDWA - Secondary Contaminants (Metals) Silver - EPA 200.7 Silver - EPA 200.8 Sodium - EPA 200.7 Zinc - EPA 200.7 Zinc - EPA 200.8</p>
<p>Class: SDWA - Primary Inorganic Contaminants (Non-Metals) Cyanide - SM 4500-CN C, E Fluoride - EPA 300.0 Nitrate + Nitrite - EPA 300.0 Nitrate + Nitrite - SM 4500-NO3 F Nitrate - EPA 300.0 Nitrate - SM 4500-NO3 F Nitrite - EPA 300.0 Nitrite - SM 4500-NO2 B</p>	<p>Class: SDWA - Synthetic Organic Contaminants (SOC) - I Aldrin - EPA 525.2 Chlordane - EPA 505 Dieldrin - EPA 525.2 Endrin - EPA 525.2 Heptachlor - EPA 525.2 Heptachlor epoxide - EPA 525.2 Lindane (gamma-BHC) - EPA 525.2 Methoxychlor - EPA 525.2 Toxaphene - EPA 505</p>
<p>Class: SDWA - Primary Inorganic Contaminants (Metals) Antimony - EPA 200.8 Arsenic - EPA 200.8 Barium - EPA 200.7 Barium - EPA 200.8 Beryllium - EPA 200.7 Beryllium - EPA 200.8 Cadmium - EPA 200.7 Cadmium - EPA 200.8 Chromium - EPA 200.7 Chromium - EPA 200.8 Copper - EPA 200.7 Copper - EPA 200.8 Lead - EPA 200.8 Mercury - EPA 200.8 Mercury - EPA 245.1 Nickel - EPA 200.7 Nickel - EPA 200.8 Selenium - EPA 200.8 Thallium - EPA 200.8</p>	<p>Class: SDWA - Synthetic Organic Contaminants (SOC) - I Alachlor - EPA 525.2 Atrazine - EPA 525.2 Butachlor - EPA 525.2 Metolachlor - EPA 525.2 Metribuzin - EPA 525.2 Propachlor - EPA 525.2 Simazine - EPA 525.2</p>
<p>Class: SDWA - Secondary Contaminants (Non-Metals) Alkalinity - SM 2320B Chloride - EPA 300.0 Orthophosphate - SM 4500-P E Sulfate - EPA 300.0</p>	<p>Class: SDWA - Synthetic Organic Contaminants (SOC) - I ## PFAS (group) – EPA 537.1 (18) 3-Hydroxycarbofuran - EPA 531.1 Aldicarb - EPA 531.1 Aldicarb Sulfone - EPA 531.1 Aldicarb Sulfoxide - EPA 531.1 Benzo[a]pyrene - EPA 525.2 Carbaryl - EPA 531.1 Carbofuran - EPA 531.1 Di(2-ethylhexyl)adipate - EPA 525.2 Di(2-ethylhexyl)phthalate - EPA 525.2 Dibromochloropropane (DBCP) - EPA 504.1 Diquat - EPA 549.2 Endothall - EPA 548.1 Ethylene Dibromide (EDB) - EPA 504.1 Glyphosate - EPA 547 Hexachlorobenzene - EPA 525.2 Hexachlorocyclopentadiene - EPA 525.2 Methomyl - EPA 531.1 Oxamyl (Vydate) - EPA 531.1 PCBs (as Aroclors) Screening - EPA 505</p>
<p>Class: SDWA - Secondary Contaminants (Metals) Aluminum - EPA 200.7 Aluminum - EPA 200.8 Calcium - EPA 200.7 Iron - EPA 200.7 Magnesium - EPA 200.7 Manganese - EPA 200.7 Manganese - EPA 200.8</p>	

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Matrix: Drinking Water (Potable Water)

Class: SDWA - Trihalomethanes ## THM (group) - EPA 524.2
Class: SDWA - Volatile Organic Compounds (VOC) ## VOCS, REGULATED (group) - EPA 524.2 ## VOCS, UNREGULATED (group) - EPA 524.2

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Matrix: Non-Aqueous (Biosolids, Leachates, Soils, Tissues, & Wastes)

<p>Class: General Chemistry Ammonia as N <i>by Colorimetric</i> Chemical Oxygen Demand (COD) <i>by Titration</i> Chloride <i>by IC</i> Cyanide, Total <i>by Colorimetric</i> Kjeldahl Nitrogen, Total <i>by Colorimetric</i> Nitrate <i>by Colorimetric</i> Nitrate + Nitrite <i>by Colorimetric</i> Nitrite <i>by Colorimetric</i> Orthophosphate <i>by Colorimetric</i> Phenolics, Total <i>by Colorimetric</i> Phosphorus, Total <i>by Colorimetric</i> Residue, Total <i>by Gravimetric</i> Sulfate <i>by IC</i> Sulfide <i>by Titration</i></p>	<p>Class: Metals Mercury <i>by Hyd-CVAA</i> Mercury <i>by ICP/MS</i> Molybdenum <i>by ICP</i> Molybdenum <i>by ICP/MS</i> Nickel <i>by ICP</i> Nickel <i>by ICP/MS</i> Potassium <i>by ICP</i> Potassium <i>by ICP/MS</i> Selenium <i>by ICP</i> Selenium <i>by ICP/MS</i> Silver <i>by ICP</i> Silver <i>by ICP/MS</i> Sodium <i>by ICP</i> Sodium <i>by ICP/MS</i> Strontium <i>by ICP</i> Strontium <i>by ICP/MS</i> Thallium <i>by ICP</i> Thallium <i>by ICP/MS</i> Tin <i>by ICP</i> Tin <i>by ICP/MS</i> Titanium <i>by ICP</i> Titanium <i>by ICP/MS</i> Vanadium <i>by ICP</i> Vanadium <i>by ICP/MS</i> Zinc <i>by ICP</i> Zinc <i>by ICP/MS</i></p>
<p>Class: Metals Aluminum <i>by ICP</i> Aluminum <i>by ICP/MS</i> Antimony <i>by ICP</i> Antimony <i>by ICP/MS</i> Arsenic <i>by ICP</i> Arsenic <i>by ICP/MS</i> Barium <i>by ICP</i> Barium <i>by ICP/MS</i> Beryllium <i>by ICP</i> Beryllium <i>by ICP/MS</i> Boron <i>by ICP</i> Cadmium <i>by ICP</i> Cadmium <i>by ICP/MS</i> Calcium <i>by ICP</i> Calcium <i>by ICP/MS</i> Chromium, Total <i>by ICP</i> Chromium, Total <i>by ICP/MS</i> Cobalt <i>by ICP</i> Cobalt <i>by ICP/MS</i> Copper <i>by ICP</i> Copper <i>by ICP/MS</i> Iron <i>by ICP</i> Iron <i>by ICP/MS</i> Lead <i>by ICP</i> Lead <i>by ICP/MS</i> Lithium <i>by ICP</i> Magnesium <i>by ICP</i> Magnesium <i>by ICP/MS</i> Manganese <i>by ICP</i> Manganese <i>by ICP/MS</i></p>	<p>Class: Base, Neutral, and Acid Extractable Semivolatiles (BNA) ## BNA - SEMIVOLATILE ORGANICS (group) <i>by GC/MS</i></p> <p>Class: Polynuclear Aromatic Hydrocarbons (PAH) (BN) ## PAH (group) <i>by GC/MS</i></p> <p>Class: Pesticides, Organochlorine ## PESTICIDES, ORGANOCHLORINE (group) <i>by GC</i></p> <p>Class: Pesticides, Nitrogen Alachlor <i>by GC/MS</i> Butylate <i>by GC/MS</i> Metolachlor <i>by GC/MS</i> Metribuzin <i>by GC/MS</i> Propachlor <i>by GC/MS</i> Trifluralin <i>by GC/MS</i></p> <p>Class: Pesticides, Organophosphorus Chlorpyrifos <i>by GC/MS</i> Dimethoate <i>by GC/MS</i></p>

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<p>Class: Pesticides, Organophosphorus Disulfoton <i>by GC/MS</i> Fonofos <i>by GC/MS</i> Parathion (Parathion Ethyl) <i>by GC/MS</i> Parathion Methyl <i>by GC/MS</i> Phorate <i>by GC/MS</i> Terbufos <i>by GC/MS</i></p>
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<p>Class: Pesticides, Carbamate EPTC (Eptam) <i>by GC/MS</i></p>
<p>Class: Petroleum Hydrocarbons ## PVOC - Petroleum VOCs (group) <i>by GC</i> ## PVOC - Petroleum VOCs (group) <i>by GC/MS</i> Diesel Range Organics (DRO) <i>by GC</i> Gasoline Range Organics (GRO) <i>by GC</i></p>
<p>Class: PCBs as Aroclors ## PCB as AROCLORS (group) <i>by GC</i></p>
<p>Class: Volatile Organic Compounds ## VOC - VOLATILE ORGANICS (group) <i>by GC/MS</i></p>
<p>Class: Waste Characterization Extractions EPTOX Extraction <i>by Waste Extractions</i> Reagent Water Shake Extraction (ASTM Leach Test) <i>by Waste Extractions</i> SPLP Extraction <i>by Waste Extractions</i> TCLP Extraction <i>by Waste Extractions</i></p>
<p>Class: Waste Characterization Assays Corrosivity, Liquids <i>by Waste Assays</i></p>

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