

# Scope of Accreditation

**Wisconsin State Laboratory of Hygiene**  
**2601 Agriculture Dr**  
**Madison, WI 53718**

Laboratory Id: **113133790**  
 Expiration Date: **08/31/14**  
 Issued Date: **08/16/13**

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

<p><b>Class: General Chemistry</b></p> <ul style="list-style-type: none"> <li>Alkalinity <i>by Titration</i></li> <li>Ammonia as N <i>by Colorimetry</i></li> <li>Biochemical Oxygen Demand (BOD) <i>by 5-d Assay</i></li> <li>Carbonaceous Oxygen Demand (cBOD) <i>by 5-d Assay</i></li> <li>Chemical Oxygen Demand (COD) <i>by Colorimetry</i></li> <li>Chloride <i>by Colorimetry</i></li> <li>Chloride <i>by IC</i></li> <li>Cyanide, Available <i>by Colorimetry</i></li> <li>Cyanide, Total <i>by Colorimetry</i></li> <li>Hardness, Total as CaCO<sub>3</sub> <i>by ICP</i></li> <li>Kjeldahl Nitrogen, Total <i>by Colorimetry</i></li> <li>Nitrate <i>by Colorimetry</i></li> <li>Nitrate <i>by IC</i></li> <li>Nitrate + Nitrite <i>by Colorimetry</i></li> <li>Nitrite <i>by Colorimetry</i></li> <li>Oil&amp;Grease, Hexane Ext. Material (HEM) <i>by Grav-HEM</i></li> <li>Organic Carbon, Total (TOC) <i>by Comb-Ox</i></li> <li>Orthophosphate <i>by Colorimetry</i></li> <li>Phosphorus, Total <i>by Colorimetry</i></li> <li>Residue, Filterable (TDS) <i>by Grav</i></li> <li>Residue, Nonfilterable (TSS) <i>by Grav</i></li> <li>Residue, Total <i>by Grav</i></li> <li>Residue, Volatile (TVS) <i>by Grav</i></li> <li>Residue, Volatile, Nonfilterable (TVSS) <i>by Grav</i></li> <li>Silica <i>by Colorimetry</i></li> <li>Sulfate <i>by Colorimetry</i></li> <li>Sulfate <i>by IC</i></li> <li>Sulfide <i>by ISE</i></li> </ul>	<p><b>Class: Metals</b></p> <ul style="list-style-type: none"> <li>Copper <i>by ICP</i></li> <li>Copper <i>by ICP-MS</i></li> <li>Iron <i>by ICP</i></li> <li>Lead <i>by GFAA</i></li> <li>Lead <i>by ICP</i></li> <li>Lead <i>by ICP-MS</i></li> <li>Magnesium <i>by ICP</i></li> <li>Manganese <i>by ICP</i></li> <li>Mercury <i>by Hyd-CVAA</i></li> <li>Mercury <i>by UltraLow</i></li> <li>Molybdenum <i>by ICP</i></li> <li>Nickel <i>by ICP</i></li> <li>Nickel <i>by ICP-MS</i></li> <li>Potassium <i>by ICP</i></li> <li>Selenium <i>by GFAA</i></li> <li>Selenium <i>by ICP</i></li> <li>Silver <i>by GFAA</i></li> <li>Silver <i>by ICP</i></li> <li>Sodium <i>by ICP</i></li> <li>Strontium <i>by ICP</i></li> <li>Thallium <i>by GFAA</i></li> <li>Thallium <i>by ICP</i></li> <li>Vanadium <i>by ICP</i></li> <li>Zinc <i>by ICP</i></li> <li>Zinc <i>by ICP-MS</i></li> </ul> <p><b>Class: PAH - Polynuclear Aromatic Hydrocarbons (BN)</b></p> <ul style="list-style-type: none"> <li>## PAH (group) <i>by GC/MS</i></li> </ul> <p><b>Class: Volatile Organics</b></p> <ul style="list-style-type: none"> <li>## VOLATILE ORGANICS [VOC] (group) <i>by GC/MS</i></li> <li>1,3-Propanediol <i>by GC</i></li> <li>Ethylene Glycol <i>by GC</i></li> <li>Propylene Glycol <i>by GC</i></li> </ul> <p><b>Class: Toxicity, Acute</b></p> <ul style="list-style-type: none"> <li>Acute Tox - Ceriodaphnia dubia <i>by WET</i></li> <li>Acute Tox - Pimephales promelas <i>by WET</i></li> </ul> <p><b>Class: Toxicity, Chronic</b></p> <ul style="list-style-type: none"> <li>Chronic Tox - Ceriodaphnia dubia <i>by WET</i></li> <li>Chronic Tox - Pimephales promelas <i>by WET</i></li> <li>Chronic Tox - Selanastrum capricornutum <i>by WET</i></li> </ul>
<p><b>Class: Metals</b></p> <ul style="list-style-type: none"> <li>Aluminum <i>by ICP</i></li> <li>Antimony <i>by GFAA</i></li> <li>Antimony <i>by ICP</i></li> <li>Arsenic <i>by GFAA</i></li> <li>Arsenic <i>by ICP</i></li> <li>Barium <i>by ICP</i></li> <li>Beryllium <i>by ICP</i></li> <li>Boron <i>by ICP</i></li> <li>Cadmium <i>by GFAA</i></li> <li>Cadmium <i>by ICP</i></li> <li>Cadmium <i>by ICP-MS</i></li> <li>Calcium <i>by ICP</i></li> <li>Chromium (Total) <i>by GFAA</i></li> <li>Chromium (Total) <i>by ICP</i></li> <li>Chromium (Total) <i>by ICP-MS</i></li> <li>Cobalt <i>by ICP</i></li> </ul>	

The laboratory named above is hereby licensed under ch. NR 149, Wis. Adm. Code for the parameters listed in this attachment.

\* Analyte groups are defined and listed at <http://dnr.wi.gov> by searching keywords "Lab Certification:".

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Expiration Date: **08/31/14**  
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**Wisconsin Certification under NR 149  
Matrix: Potable Water (Drinking Water)**

<b>Class: SDWA - Secondary Non-metals</b>
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Sulfate - EPA 375.2
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<b>Class: SDWA - Secondary Metals</b>
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Sodium - EPA 200.7
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**Wisconsin Certification under NR 149**  
**Matrix: Solid (Waste, Soil & Tissue)**

<p><b>Class: General Chemistry</b>                  Ammonia as N <i>by Colorimetry</i>                  Chloride <i>by Colorimetry</i>                  Cyanide, Total <i>by Colorimetry</i>                  Kjeldahl Nitrogen, Total <i>by Colorimetry</i>                  Nitrate + Nitrite <i>by Colorimetry</i>                  Organic Carbon, Total (TOC) <i>by Comb-Ox</i>                  Phosphorus, Total <i>by Colorimetry</i>                  Phosphorus, Total <i>by ICP</i>                  Residue, Total <i>by Grav</i></p>	<p><b>Class: Waste Characterization Extractions</b>                  EPTOX Extraction <i>by Waste Extractions</i>                  TCLP Extraction <i>by Waste Extractions</i></p> <p><b>Class: Waste Characterization Assays</b>                  Ignitability, Pensky-Martens Closed Cup <i>by Waste Assays</i>                  Waste Analysis, Other <i>by Waste Assays</i></p>
<p><b>Class: Metals</b>                  Aluminum <i>by ICP</i>                  Antimony <i>by ICP</i>                  Arsenic <i>by ICP</i>                  Barium <i>by ICP</i>                  Beryllium <i>by ICP</i>                  Boron <i>by ICP</i>                  Cadmium <i>by ICP</i>                  Calcium <i>by ICP</i>                  Chromium (Total) <i>by ICP</i>                  Cobalt <i>by ICP</i>                  Copper <i>by ICP</i>                  Iron <i>by ICP</i>                  Lead <i>by ICP</i>                  Magnesium <i>by ICP</i>                  Manganese <i>by ICP</i>                  Mercury <i>by Hyd-CVAA</i>                  Mercury <i>by UltraLow</i>                  Molybdenum <i>by ICP</i>                  Nickel <i>by ICP</i>                  Potassium <i>by ICP</i>                  Selenium <i>by ICP</i>                  Silver <i>by ICP</i>                  Sodium <i>by ICP</i>                  Thallium <i>by ICP</i>                  Vanadium <i>by ICP</i>                  Zinc <i>by ICP</i></p>	
<p><b>Class: PAH - Polynuclear Aromatic Hydrocarbons (BN)</b>                  ## PAH (group) <i>by GC/MS</i></p>	
<p><b>Class: Volatile Organics</b>                  ## VOLATILE ORGANICS [VOC] (group) <i>by GC/MS</i>                  1,3-Propanediol <i>by GC</i>                  Ethylene Glycol <i>by GC</i>                  Propylene Glycol <i>by GC</i></p>	

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**Wisconsin Reciprocal Certification with EPA Region 5**  
**Matrix: Potable Water (Drinking Water)**

<p><b>Class: SDWA - Disinfection Byproducts</b>                  ## HALOACETIC ACIDS (5) - EPA 552.2</p>
<p><b>Class: SDWA - Primary Non-metals</b>                  Cyanide - SM 4500-CN- C,E                  Fluoride - Technicon 380-75WE                  Nitrate + Nitrite - EPA 353.2                  Nitrate - EPA 353.2                  Nitrite - SM 4500-NO2- B</p>
<p><b>Class: SDWA - Primary Metals</b>                  Antimony - SM 3113B                  Arsenic - SM 3113B                  Barium - EPA 200.7                  Beryllium - EPA 200.7                  Cadmium - SM 3113B                  Chromium - SM 3113B                  Copper - EPA 200.7                  Lead - SM 3113B                  Mercury - EPA 245.1                  Nickel - EPA 200.7                  Selenium - SM 3113B                  Thallium - EPA 200.9</p>
<p><b>Class: SDWA - Trihalomethanes</b>                  ## THM (group) - EPA 524.2</p>
<p><b>Class: SDWA - Volatile Organics</b>                  ## VOCS, REGULATED (group) - EPA 524.2</p>