

# The State of Wisconsin Department of Natural Resources

has granted

**Accreditation under NR 149**

to

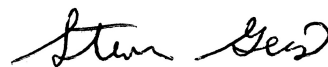
***Badger Laboratories, Inc.***

***FID: 445023150***

The laboratory is accredited to perform environmental sample analysis in support of covered environmental programs per matrix for the combination of analyte and technology or analyte and method as specified in the attached Scopes of Accreditation.

**Printed on: August 18, 2021**

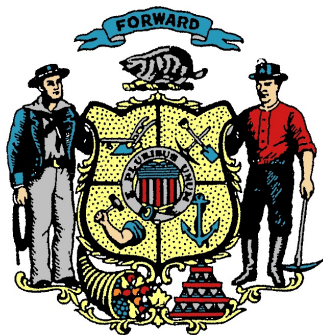
**Expires on: August 31, 2022**



Steven Geis, Chief  
Certification Services



Preston D. Cole Secretary  
Department of Natural Resources



This certificate does not guarantee validity of data generated, but indicates the methodology, equipment, quality control practices, records, and proficiency of the laboratory have been reviewed and found to satisfy the requirements of chapter NR 149, Wisconsin Administrative Code.



# Wisconsin Scope of Accreditation

Laboratory FID: 445023150  
**CERTIFICATION**  
 Aqueous (Non-potable Water)

**Badger Laboratories, Inc.**  
**501 W Bell Street**  
**Neenah, WI 54956-1392**

**Printed on: 8/18/2021**  
**Expires on: 8/31/2022**

<b>Oxygen Demand Assays (BOD or cBOD)</b>	Biochemical Oxygen Demand (BOD)
	Carbonaceous Biochemical Oxygen Demand (cBOD)
<b>Colorimetric or Turbidimetric</b>	Alkalinity
	Ammonia as N
	Chemical Oxygen Demand (COD)
	Chloride
	Cyanide, Available
	Cyanide, Total
	Kjeldahl Nitrogen, Total
	Nitrate + Nitrite
	Orthophosphate
	Phenolics, Total
	Phosphorus, Total
	Silica
	Sulfate
	Surfactants
Chromium, Hexavalent	
<b>Gravimetric Assays - Residue (solids)</b>	Residue, Filterable (TDS)
	Residue, Nonfilterable (TSS)
	Residue, Total (Total Solids)
	Residue, Volatile (TVS)
	Residue, Volatile, Nonfilterable (TVSS)
<b>Extraction/Gravimetric Assays - Oil &amp; Grease as HEM</b>	Oil & Grease as HEM
	Oil & Grease as HEM, Silica Gel Treated (SGT)
<b>Ion Chromatography (IC)</b>	Chloride
	Fluoride
	Nitrate
	Nitrate + Nitrite
	Nitrite
	Sulfate

This laboratory is accredited under NR 149 to perform environmental sample analysis in support of covered environmental programs for the combination of analyte or analyte group and technology in the aqueous and non-aqueous matrices and analyte or analyte group and method in the drinking water matrix as specified in this Scope of Accreditation.



# Wisconsin Scope of Accreditation

Laboratory FID: 445023150  
 CERTIFICATION  
 Aqueous (Non-potable Water)

<b>Titrimetric or Potentiometric Titration Assays</b>	Acidity as CaCO <sub>3</sub>
	Alkalinity
	Sulfide
	Sulfite
<b>Cold Vapor Atomic Absorption Spectrophotometry (CVAA)</b>	Mercury
<b>Inductively Coupled Plasma Emission Spectrophotometry (ICP)</b>	Hardness, Total as CaCO <sub>3</sub>
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Thallium
	Tin
Titanium	
Vanadium	
Zinc	

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# Wisconsin Scope of Accreditation

Laboratory FID: 445023150  
CERTIFICATION  
Aqueous (Non-potable Water)

<b>Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)</b>	Hardness, Total as CaCO <sub>3</sub>
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
	Strontium
	Thallium
	Tin
	Titanium
Vanadium	
Zinc	

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# Wisconsin Scope of Accreditation

Laboratory FID: 445023150  
 CERTIFICATION  
 Drinking Water (Potable Water)

**Badger Laboratories, Inc.**  
 501 W Bell Street  
 Neenah, WI 54956-1392

**Printed on: 8/18/2021**  
**Expires on: 8/31/2022**

<b>Primary Inorganics Contaminants (Non-Metals)</b>	Cyanide - EPA 335.4
	Fluoride - EPA 300.0
	Nitrate + Nitrite - EPA 300.0
	Nitrate + Nitrite - EPA 353.2
	Nitrate - EPA 300.0
	Nitrate - EPA 353.2
	Nitrite - EPA 300.0
	Nitrite - EPA 353.2
<b>Primary Inorganics Contaminants (Metals)</b>	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 200.8
	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 200.8
	Selenium - EPA 200.8
	Thallium - EPA 200.8
<b>Secondary Inorganic Contaminants (Non-Metals)</b>	Alkalinity - SM 2320B
	Chloride - EPA 300.0
	Orthophosphate - SM 4500-P E
	Sulfate - EPA 300.0
	TDS (Total Dissolved Solids) - SM 2540C
	pH - SM 4500-H+ B

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# Wisconsin Scope of Accreditation

Laboratory FID: 445023150  
CERTIFICATION  
Drinking Water (Potable Water)

Secondary Inorganic 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
	Silver - EPA 200.7
	Silver - EPA 200.8
	Sodium - EPA 200.7
	Zinc - EPA 200.7
	Zinc - EPA 200.8

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# Wisconsin Scope of Accreditation

Laboratory FID: 445023150

Page 1 of 3

CERTIFICATION

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

**Badger Laboratories, Inc.**  
**501 W Bell Street**  
**Neenah, WI 54956-1392**

**Printed on: 8/18/2021**  
**Expires on: 8/31/2022**

<b>Colorimetric or Turbidimetric</b>	Ammonia as N
	Chloride
	Cyanide, Available
	Cyanide, Total
	Kjeldahl Nitrogen, Total
	Nitrate + Nitrite
	Orthophosphate
	Phenolics, Total
	Phosphorus, Total
	Sulfate
	<b>Gravimetric Assays - Residue (solids)</b>
<b>Ion Chromatography (IC)</b>	Chloride
	Fluoride
	Nitrate
	Nitrate + Nitrite
	Nitrite
	Sulfate
<b>Titrimetric or Potentiometric Titration Assays</b>	Sulfide
<b>Cold Vapor Atomic Absorption Spectrophotometry (CVAA)</b>	Mercury

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# Wisconsin Scope of Accreditation

Laboratory FID: 445023150

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CERTIFICATION

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

<b>Inductively Coupled Plasma Emission Spectrophotometry (ICP)</b>	
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Thallium
	Tin
	Titanium
	Vanadium
	Zinc

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# Wisconsin Scope of Accreditation

Laboratory FID: 445023150

**CERTIFICATION**

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

<b>Inductively Coupled Plasma-Mass Spectrometry (ICP/MS)</b>	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Calcium
	Chromium, Total
	Cobalt
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Potassium
	Selenium
	Silver
	Sodium
Strontium	
Thallium	
Titanium	
Vanadium	
Zinc	
<b>Solid Waste Leaching Procedures</b>	Reagent Water Shake Extraction (ASTM Leach)
	SPLP Extraction
<b>Hazardous Waste Characteristics</b>	Corrosivity, Liquids
	Ignitability (Flashpoint), Pensky-Martens Closed Cup
	Paint Filter Liquids Test
	TCLP Extraction

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**State of Wisconsin**

**DEPARTMENT OF NATURAL RESOURCES**

101 S Webster St  
PO Box 7921  
Madison, WI 53707-7921

**Tony Evers, Governor**  
**Preston D. Cole, Secretary**

Telephone 608-266-2621  
Toll Free 1-888-936-7463  
TTY Access via relay - 711



August 18, 2021

FID: 445023150

Amanda Kordus  
Badger Laboratories, Inc.  
501 W Bell Street  
Neenah, WI 54956-1392

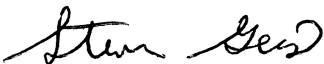
Dear Amanda:

Enclosed is your new laboratory accreditation certificate and scope of accreditation. These documents supersede all previous versions.

Your scope of accreditation is an important document because it identifies the parameters, by technology, for which your laboratory maintains accreditation in the aqueous and non-aqueous matrices. If your laboratory is certified in the drinking water matrix, the scope of accreditation also identifies the parameters and methods for which your laboratory is certified. It is critical that the scope of accreditation be reviewed carefully for errors. **It is your responsibility to make sure that the scope of accreditation agrees with your understanding of the matrices, technologies, parameters, and any drinking water methods for which your laboratory maintains accreditation in Wisconsin.**

If you believe that your Scope of Accreditation contains errors or you would like to discuss how to get reinstatement for any lost parameters, contact the Laboratory Accreditation Program Chemist immediately at 920-412-5970 or by email at [Tom.Trainor@wisconsin.gov](mailto:Tom.Trainor@wisconsin.gov).

Sincerely,



Steven Geis, Chief  
Certification Services