



# CERTIFICATE OF ACCREDITATION

## ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

### Brooks Applied Labs

18804 North Creek Parkway, Suite 100  
Bothell, WA 98011

has been assessed by ANAB and meets the requirements of international standard

## ISO/IEC 17025:2005

and the

## DoE Quality Systems Manual for Environmental Laboratories (DoE QSM V5.1.1)

while demonstrating technical competence in the field of

## TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

ADE-1447.03

Certificate Number



ANAB Approval

Certificate Valid Through: 03/30/2020  
Version No. 001 Issued: 02/25/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005 AND DOE  
QUALITY SYSTEMS MANUAL FOR ENVIRONMENTAL  
LABORATORIES (DOE QSM V5.1.1)**

**Brooks Applied Labs, LLC**  
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Bothell, WA 98011  
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**TESTING**

Valid to: **March 30, 2020**

Certificate Number: **ADE-1447.03**

**Environmental**

<b>Non-Potable Water</b>		
<b>Technology</b>	<b>Method</b>	<b>Analyte</b>
ICP-MS	BAL-5000	Aluminum
ICP-MS	BAL-5000	Arsenic
ICP-MS	BAL-5000	Antimony
ICP-MS	BAL-5000	Barium
ICP-MS	BAL-5000	Calcium
ICP-MS	BAL-5000	Cadmium
ICP-MS	BAL-5000	Copper
ICP-MS	BAL-5000	Chromium
ICP-MS	BAL-5000	Iron
ICP-MS	BAL-5000	Lead
ICP-MS	BAL-5000	Magnesium
ICP-MS	BAL-5000	Manganese
ICP-MS	BAL-5000	Nickel
ICP-MS	BAL-5000	Selenium
ICP-MS	BAL-5000	Silver
ICP-MS	BAL-5000	Tungsten
ICP-MS	BAL-5000	Vanadium
ICP-MS	BAL-5000	Zinc
ICP-MS	EPA 1638 mod	Aluminum
ICP-MS	EPA 1638 mod	Arsenic



Non-Potable Water		
Technology	Method	Analyte
ICP-MS	EPA 1638 mod	Antimony
ICP-MS	EPA 1638 mod	Barium
ICP-MS	EPA 1638 mod	Calcium
ICP-MS	EPA 1638 mod	Cadmium
ICP-MS	EPA 1638 mod	Copper
ICP-MS	EPA 1638 mod	Chromium
ICP-MS	EPA 1638 mod	Iron
ICP-MS	EPA 1638 mod	Lead
ICP-MS	EPA 1638 mod	Magnesium
ICP-MS	EPA 1638 mod	Manganese
ICP-MS	EPA 1638 mod	Nickel
ICP-MS	EPA 1638 mod	Selenium
ICP-MS	EPA 1638 mod	Silver
ICP-MS	EPA 1638 mod	Tungsten
ICP-MS	EPA 1638 mod	Vanadium
ICP-MS	EPA 1638 mod	Zinc
ICP-MS	EPA 200.8 mod	Aluminum
ICP-MS	EPA 200.8 mod	Arsenic
ICP-MS	EPA 200.8 mod	Antimony
ICP-MS	EPA 200.8 mod	Barium
ICP-MS	EPA 200.8 mod	Calcium
ICP-MS	EPA 200.8 mod	Cadmium
ICP-MS	EPA 200.8 mod	Copper
ICP-MS	EPA 200.8 mod	Chromium
ICP-MS	EPA 200.8 mod	Iron
ICP-MS	EPA 200.8 mod	Lead
ICP-MS	EPA 200.8 mod	Magnesium
ICP-MS	EPA 200.8 mod	Manganese
ICP-MS	EPA 200.8 mod	Nickel
ICP-MS	EPA 200.8 mod	Selenium
ICP-MS	EPA 200.8 mod	Silver
ICP-MS	EPA 200.8 mod	Tungsten
ICP-MS	EPA 200.8 mod	Vanadium
ICP-MS	EPA 200.8 mod	Zinc
ICP-MS	EPA 6020 mod	Aluminum
ICP-MS	EPA 6020 mod	Arsenic
ICP-MS	EPA 6020 mod	Antimony

<b>Non-Potable Water</b>		
<b>Technology</b>	<b>Method</b>	<b>Analyte</b>
ICP-MS	EPA 6020 mod	Barium
ICP-MS	EPA 6020 mod	Calcium
ICP-MS	EPA 6020 mod	Cadmium
ICP-MS	EPA 6020 mod	Copper
ICP-MS	EPA 6020 mod	Chromium
ICP-MS	EPA 6020 mod	Iron
ICP-MS	EPA 6020 mod	Lead
ICP-MS	EPA 6020 mod	Magnesium
ICP-MS	EPA 6020 mod	Manganese
ICP-MS	EPA 6020 mod	Nickel
ICP-MS	EPA 6020 mod	Selenium
ICP-MS	EPA 6020 mod	Silver
ICP-MS	EPA 6020 mod	Tungsten
ICP-MS	EPA 6020 mod	Vanadium
ICP-MS	EPA 6020 mod	Zinc
IC-ICP-MS	BAL-4300	Hexavalent Chromium Cr(VI)
HGAAS	EPA 1632A	Inorganic Arsenic
HGAAS	EPA 1632A	Trivalent Arsenic
HGAAS	BAL-3300	Inorganic Arsenic
HGAAS	BAL-3300	Trivalent Arsenic
Difference	EPA 1632A	Pentavalent Arsenic
Difference	BAL-3300	Pentavalent Arsenic
CVAFS	EPA 1631E	Low-Level Mercury
CVAFS	BAL-3100	Low-Level Mercury
CVAFS	EPA 1630	Methyl Mercury
CVAFS	BAL-3200	Methyl Mercury
By Calculation	SM 2340 B (20 <sup>th</sup> Ed.)	Hardness
Gravimetric	SM 2540 D (20 <sup>th</sup> Ed.)	Total Suspended Solids
Gravimetric	EPA 160.2	Total Suspended Solids

<b>Solid and Chemical Materials</b>		
<b>Technology</b>	<b>Method</b>	<b>Analyte</b>
ICP-MS	BAL-5000	Arsenic
ICP-MS	BAL-5000	Cadmium
ICP-MS	BAL-5000	Copper
ICP-MS	BAL-5000	Chromium



**Solid and Chemical Materials**

Technology	Method	Analyte
ICP-MS	BAL-5000	Lead
ICP-MS	BAL-5000	Nickel
ICP-MS	BAL-5000	Selenium
ICP-MS	BAL-5000	Silver
ICP-MS	BAL-5000	Zinc
ICP-MS	EPA 1638 mod	Arsenic
ICP-MS	EPA 1638 mod	Cadmium
ICP-MS	EPA 1638 mod	Copper
ICP-MS	EPA 1638 mod	Chromium
ICP-MS	EPA 1638 mod	Lead
ICP-MS	EPA 1638 mod	Nickel
ICP-MS	EPA 1638 mod	Selenium
ICP-MS	EPA 1638 mod	Silver
ICP-MS	EPA 1638 mod	Zinc
ICP-MS	EPA 200.8 mod	Arsenic
ICP-MS	EPA 200.8 mod	Cadmium
ICP-MS	EPA 200.8 mod	Copper
ICP-MS	EPA 200.8 mod	Chromium
ICP-MS	EPA 200.8 mod	Lead
ICP-MS	EPA 200.8 mod	Nickel
ICP-MS	EPA 200.8 mod	Selenium
ICP-MS	EPA 200.8 mod	Silver
ICP-MS	EPA 200.8 mod	Zinc
ICP-MS	EPA 6020 mod	Arsenic
ICP-MS	EPA 6020 mod	Cadmium
ICP-MS	EPA 6020 mod	Copper
ICP-MS	EPA 6020 mod	Chromium
ICP-MS	EPA 6020 mod	Lead
ICP-MS	EPA 6020 mod	Nickel
ICP-MS	EPA 6020 mod	Selenium
ICP-MS	EPA 6020 mod	Silver
ICP-MS	EPA 6020 mod	Zinc
IC-ICP-MS	BAL-4300	Hexavalent Chromium Cr(VI)
CVAFS	EPA 1631E (appendix)	Low-Level Mercury
CVAFS	BAL-3101	Low-Level Mercury
Gravimetric	SM 2540 G (20 <sup>th</sup> Ed.)	Dry Weight
Gravimetric	EPA 160.3	Dry Weight



Solid and Chemical Materials		
Preparation	Method	Type
Alkaline Digestion	EPA 3060A	Extraction of Hexavalent Chromium
Alkaline Digestion	BAL-4310	Extraction of Hexavalent Chromium

Biological Tissue		
Technology	Method	Analyte
ICP-MS	BAL-5000	Arsenic
ICP-MS	BAL-5000	Cadmium
ICP-MS	BAL-5000	Copper
ICP-MS	BAL-5000	Chromium
ICP-MS	BAL-5000	Lead
ICP-MS	BAL-5000	Nickel
ICP-MS	BAL-5000	Selenium
ICP-MS	BAL-5000	Silver
ICP-MS	BAL-5000	Zinc
ICP-MS	EPA 1638 mod	Arsenic
ICP-MS	EPA 1638 mod	Cadmium
ICP-MS	EPA 1638 mod	Copper
ICP-MS	EPA 1638 mod	Chromium
ICP-MS	EPA 1638 mod	Lead
ICP-MS	EPA 1638 mod	Nickel
ICP-MS	EPA 1638 mod	Selenium
ICP-MS	EPA 1638 mod	Silver
ICP-MS	EPA 1638 mod	Zinc
ICP-MS	EPA 200.8 mod	Arsenic
ICP-MS	EPA 200.8 mod	Cadmium
ICP-MS	EPA 200.8 mod	Copper
ICP-MS	EPA 200.8 mod	Chromium
ICP-MS	EPA 200.8 mod	Lead
ICP-MS	EPA 200.8 mod	Nickel
ICP-MS	EPA 200.8 mod	Selenium
ICP-MS	EPA 200.8 mod	Silver
ICP-MS	EPA 200.8 mod	Zinc
ICP-MS	EPA 6020 mod	Arsenic
ICP-MS	EPA 6020 mod	Cadmium



Biological Tissue		
Technology	Method	Analyte
ICP-MS	EPA 6020 mod	Copper
ICP-MS	EPA 6020 mod	Chromium
ICP-MS	EPA 6020 mod	Lead
ICP-MS	EPA 6020 mod	Nickel
ICP-MS	EPA 6020 mod	Selenium
ICP-MS	EPA 6020 mod	Silver
ICP-MS	EPA 6020 mod	Zinc
HGAAS	EPA 1632A	Inorganic Arsenic
HGAAS	BAL-3300	Inorganic Arsenic
CVAFS	EPA 1631E (appendix)	Low-Level Mercury
CVAFS	BAL-3101	Low-Level Mercury
CVAFS	BAL-3200	Methyl Mercury
CVAFS	EPA 1630 mod	Methyl Mercury
Gravimetric	SM 2540 G (20 <sup>th</sup> Ed.)	Dry Weight
Gravimetric	EPA 160.3	Dry Weight

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. ADE-1447.03

Vice President

