pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Laboratory Scope of Accreditation

Attached to Certificate of Accreditation 019-001 expiration date 07/31/2020. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

Microbac Laboratories, Inc. Pittsburgh Division
100 Marshall Drive
Warrendale, PA 15086-7554
(724) 772-0610

DEP Laboratory ID: 02-00257
EPA Lab Code: PA00052
TNI Code: TNI02133
PADWIS ID: 02257

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 1664	A	Non-polar material	NELAP	PA	09/19/2018
EPA 1664	A	Oil and grease	NELAP	PA	09/19/2018
EPA 180.1		Turbidity	NELAP	PA	09/19/2018
EPA 200.7	4.4	Aluminum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Barium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Beryllium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Boron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cadmium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Calcium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Chromium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cobalt	NELAP	PA	09/19/2018
EPA 200.7	4.4	Copper	NELAP	PA	09/19/2018
EPA 200.7	4.4	Iron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Magnesium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Manganese	NELAP	PA	09/19/2018
EPA 200.7	4.4	Molybdenum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Nickel	NELAP	PA	09/19/2018
EPA 200.7	4.4	Phosphorus, total	NELAP	PA	09/19/2018
EPA 200.7	4.4	Potassium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Silver	NELAP	PA	09/19/2018
EPA 200.7	4.4	Sodium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Strontium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Tin	NELAP	PA	09/19/2018
EPA 200.7	4.4	Titanium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Vanadium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Zinc	NELAP	PA	09/19/2018
EPA 300.0	2.1	Chloride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Fluoride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrate as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrite as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Orthophosphate as P	NELAP	PA	09/19/2018
EPA 300.0	2.1	Sulfate	NELAP	PA	09/19/2018
HACH 8000		Chemical oxygen demand (COD)	NELAP	PA	09/19/2018
SM 2120 B		Color	NELAP	PA	09/19/2018
SM 2320 B		Alkalinity as CaCO3	NELAP	PA	09/19/2018
SM 2510 B		Conductivity	NELAP	PA	09/19/2018
SM 2540 C		Residue, filterable (TDS)	NELAP	PA	09/19/2018
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	PA	09/19/2018
SM 4500-Cl G		Residual free chlorine	NELAP	PA	09/19/2018
SM 4500-Cl G		Total residual chlorine	NELAP	PA	09/19/2018
SM 4500-H+ B		pH	NELAP	PA	09/19/2018
SM 4500-NH3 B		Ammonia distillation	NELAP	PA	01/18/2019

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DEP Laboratory ID: 02-00257
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TNI Code: TNI02133
PADWIS ID: 02257

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
SM 4500-NH3 F	19-22	Ammonia as N	NELAP	PA	01/18/2019
SM 4500-P B		Preliminary treatment of phosphate samples	NELAP	PA	09/19/2018
SM 4500-P E		Orthophosphate as P	NELAP	PA	09/19/2018
SM 4500-P E		Phosphorus, total	NELAP	PA	09/19/2018
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	PA	09/19/2018
SM 5210 B		Carbonaceous BOD (CBOD)	NELAP	PA	09/19/2018
SM 5310 C		Total organic carbon (TOC)	NELAP	PA	09/19/2018
SM 9215 B		Heterotrophic bacteria (Enumeration)	NELAP	PA	07/26/2018
SM 9223 Colilert		Total coliform & E. coli (P/A)	NELAP	PA	07/26/2018
SM 9223 Colilert MPN or QT		E. coli (Enumeration)	NELAP	PA	07/26/2018
SM 9223 Colilert MPN or QT		Total coliform (Enumeration)	NELAP	PA	07/26/2018

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
Colilert 18/Quantitray		Fecal coliform (Enumeration)	NELAP	PA	07/26/2018
EPA 160.4		Residue, volatile	NELAP	PA	09/19/2018
EPA 1664	A	Non-polar material	NELAP	PA	09/19/2018
EPA 1664	A	Oil and grease	NELAP	PA	09/19/2018
EPA 180.1		Turbidity	NELAP	PA	09/19/2018
EPA 200.7	4.4	Aluminum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Antimony	NELAP	PA	09/19/2018
EPA 200.7	4.4	Arsenic	NELAP	PA	09/19/2018
EPA 200.7	4.4	Barium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Beryllium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Boron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cadmium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Calcium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Chromium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Cobalt	NELAP	PA	09/19/2018
EPA 200.7	4.4	Copper	NELAP	PA	09/19/2018
EPA 200.7	4.4	Iron	NELAP	PA	09/19/2018
EPA 200.7	4.4	Lead	NELAP	PA	09/19/2018
EPA 200.7	4.4	Lithium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Magnesium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Manganese	NELAP	PA	09/19/2018
EPA 200.7	4.4	Molybdenum	NELAP	PA	09/19/2018
EPA 200.7	4.4	Nickel	NELAP	PA	09/19/2018
EPA 200.7	4.4	Potassium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Selenium	NELAP	PA	09/19/2018

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DEP Laboratory ID: 02-00257
EPA Lab Code: PA00052
TNI Code: TNI02133
PADWIS ID: 02257

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 200.7	4.4	Silica, as SiO2	NELAP	PA	09/19/2018
EPA 200.7	4.4	Silver	NELAP	PA	09/19/2018
EPA 200.7	4.4	Sodium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Strontium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Tin	NELAP	PA	09/19/2018
EPA 200.7	4.4	Titanium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Vanadium	NELAP	PA	09/19/2018
EPA 200.7	4.4	Zinc	NELAP	PA	09/19/2018
EPA 300.0	2.1	Bromide	NELAP	PA	04/23/2019
EPA 300.0	2.1	Chloride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Fluoride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrate as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrite as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Orthophosphate as P	NELAP	PA	09/19/2018
EPA 300.0	2.1	Sulfate	NELAP	PA	09/19/2018
EPA 3010	A	Hot plate acid digestion (HNO3 + HCl)	NELAP	PA	09/19/2018
EPA 6010	D	Metals by ICP/AES	NELAP	PA	07/02/2019
EPA 6010		Aluminum	NELAP	PA	09/19/2018
EPA 6010		Antimony	NELAP	PA	09/19/2018
EPA 6010		Arsenic	NELAP	PA	09/19/2018
EPA 6010		Barium	NELAP	PA	09/19/2018
EPA 6010		Beryllium	NELAP	PA	09/19/2018
EPA 6010		Boron	NELAP	PA	09/19/2018
EPA 6010		Cadmium	NELAP	PA	09/19/2018
EPA 6010		Calcium	NELAP	PA	09/19/2018
EPA 6010		Chromium	NELAP	PA	09/19/2018
EPA 6010		Cobalt	NELAP	PA	09/19/2018
EPA 6010		Copper	NELAP	PA	09/19/2018
EPA 6010		Iron	NELAP	PA	09/19/2018
EPA 6010		Lead	NELAP	PA	09/19/2018
EPA 6010		Lithium	NELAP	PA	09/19/2018
EPA 6010		Magnesium	NELAP	PA	09/19/2018
EPA 6010		Manganese	NELAP	PA	09/19/2018
EPA 6010		Molybdenum	NELAP	PA	09/19/2018
EPA 6010		Nickel	NELAP	PA	09/19/2018
EPA 6010		Potassium	NELAP	PA	09/19/2018
EPA 6010		Selenium	NELAP	PA	09/19/2018
EPA 6010		Silica, as SiO2	NELAP	PA	09/19/2018
EPA 6010		Silver	NELAP	PA	09/19/2018
EPA 6010		Sodium	NELAP	PA	09/19/2018
EPA 6010		Strontium	NELAP	PA	09/19/2018
EPA 6010		Tin	NELAP	PA	09/19/2018

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DEP Laboratory ID: 02-00257
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TNI Code: TNI02133
PADWIS ID: 02257

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 6010		Titanium	NELAP	PA	09/19/2018
EPA 6010		Vanadium	NELAP	PA	09/19/2018
EPA 6010		Zinc	NELAP	PA	09/19/2018
EPA 7196		Chromium VI	NELAP	PA	09/19/2018
HACH 8000		Chemical oxygen demand (COD)	NELAP	PA	09/19/2018
SM 2120 B		Color	NELAP	PA	09/19/2018
SM 2310 B		Acidity as CaCO3	NELAP	PA	09/19/2018
SM 2320 B		Alkalinity as CaCO3	NELAP	PA	09/19/2018
SM 2510 B		Conductivity	NELAP	PA	09/19/2018
SM 2540 B		Residue, total	NELAP	PA	09/19/2018
SM 2540 C		Residue, filterable (TDS)	NELAP	PA	09/19/2018
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	PA	09/19/2018
SM 2540 E		Residue, volatile	NELAP	PA	09/19/2018
SM 2540 F		Residue, settleable	NELAP	PA	09/19/2018
SM 3500-Cr B	20-22	Chromium VI	NELAP	PA	09/19/2018
SM 4500-Cl G		Free chlorine	NELAP	PA	09/19/2018
SM 4500-Cl G		Total residual chlorine	NELAP	PA	09/19/2018
SM 4500-H+ B		pH	NELAP	PA	09/19/2018
SM 4500-NH3 B		Ammonia distillation	NELAP	PA	09/19/2018
SM 4500-NH3 F	19-22	Ammonia as N	NELAP	PA	09/19/2018
SM 4500-NH3 F	19-22	Kjeldahl nitrogen, total (TKN)	NELAP	PA	09/19/2018
SM 4500-Norg C		Kjeldahl nitrogen, total (TKN)	NELAP	PA	09/19/2018
SM 4500-O G		Oxygen (dissolved)	NELAP	PA	09/19/2018
SM 4500-P B		Preliminary treatment of phosphate samples	NELAP	PA	09/19/2018
SM 4500-P E		Orthophosphate as P	NELAP	PA	09/19/2018
SM 4500-P E		Phosphorus, total	NELAP	PA	09/19/2018
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	PA	09/19/2018
SM 5210 B		Carbonaceous BOD (CBOD)	NELAP	PA	09/19/2018
SM 5310 C		Total organic carbon (TOC)	NELAP	PA	09/19/2018

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
ASTM D3987-85		Shake extraction of solid waste with water	NELAP	PA	09/19/2018
EPA 160.4		Residue, volatile	NELAP	PA	09/19/2018
EPA 300.0	2.1	Bromide	NELAP	PA	09/19/2018
EPA 300.0	2.1	Chloride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Fluoride	NELAP	PA	09/19/2018
EPA 300.0	2.1	Nitrate as N	NELAP	PA	09/19/2018
EPA 300.0	2.1	Sulfate	NELAP	PA	09/19/2018
EPA 3010	A	Hot plate acid digestion (HNO3 + HCl)	NELAP	PA	09/19/2018

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DEP Laboratory ID: 02-00257
EPA Lab Code: PA00052
TNI Code: TNI02133
PADWIS ID: 02257

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary State	Effective Date
EPA 3050	B	Acid digestion of solids	NELAP	PA	09/19/2018
EPA 9045		pH	NELAP	PA	09/19/2018
SM 2540 G		Residue, total	NELAP	PA	09/19/2018
SM 4500-NH3 B		Ammonia distillation	NELAP	PA	04/23/2019
SM 4500-NH3 F	19-22	Ammonia as N	NELAP	PA	04/23/2019
SM 4500-NH3 F	19-22	Kjeldahl nitrogen	NELAP	PA	09/19/2018
SM 4500-Norg C		Kjeldahl nitrogen, total (TKN)	NELAP	PA	09/19/2018

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certifies That

02-00257

Microbac Laboratories, Inc. Pittsburgh Division

100 Marshall Drive, Warrendale, PA, 15086-7554

Having duly met the requirement of
The act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratories Accreditation
(27 Pa. C.S. 4104-4113) and the
National Environmental Laboratory Accreditation Program Standard
is hereby approved as an

Accredited Laboratory

to conduct analysis within the fields of accreditations more fully described in the attached Scope of Accreditation

NELAP accreditation granted by the PA DEP to an environmental laboratory is conditioned upon continued compliance with the current edition of the NELAC Standard or TNI Standard and the following Subchapters and Sections of 25 Pa. Code Chapter 252: Subchapter A (relating to general provisions); Subchapter B (relating to application, fees and supporting documents); Subchapter E (relating to proficiency test study requirements); Subchapter F (relating to assessment requirements); Subchapter G (relating to miscellaneous provisions); Section 252.307; and Section 252.401.

Expiration Date: **07/31/2020**

Certificate Number: **019**

Aaren S. Alger, Chief
Laboratory Accreditation Program
Bureau of Laboratories

Continued accreditation status depends on successful ongoing participation in the program
Certificate not transferable Surrender upon revocation
To be conspicuously displayed at the Laboratory
Not valid unless accompanied by a valid Scope of Accreditation
Shall not be used to imply endorsement by the Commonwealth of Pennsylvania
Customers are urged to verify the laboratory's current accreditation status
PA DEP is a NELAP recognized accreditation body