

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM

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: **07/31/2024**

Certificate Number: **023**



Annamarie Beach

Annamarie Beach, 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

Laboratory Scope of Accreditation



Attached to Certificate of Accreditation 023-008 expiration date 07/31/2024. 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 | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|-----------|----------|-----------------|--------------------|------------------|--------------------|---------------|----------------|
| EPA 1664 | A | 10127807 | Non-polar material | 1853 | NELAP | PA | 09/19/2018 |
| EPA 1664 | A | 10127807 | Oil and grease | 1803 | NELAP | PA | 09/19/2018 |
| EPA 180.1 | 2 | 10011800 | Turbidity | 2055 | NELAP | PA | 06/08/2023 |
| EPA 200.7 | 4.4 | 10013806 | Aluminum | 1000 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Barium | 1015 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Beryllium | 1020 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Boron | 1025 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Cadmium | 1030 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Calcium | 1035 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Chromium | 1040 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Cobalt | 1050 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Copper | 1055 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Iron | 1070 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Magnesium | 1085 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Manganese | 1090 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Molybdenum | 1100 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Nickel | 1105 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Potassium | 1125 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Silver | 1150 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Sodium | 1155 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Strontium | 1160 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Tin | 1175 | 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: Drinking Water

| Method | Revision | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|-----------|----------|-----------------|------------|------------------|--------------------|---------------|----------------|
| EPA 200.7 | 4.4 | 10013806 | Titanium | 1180 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Vanadium | 1185 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Zinc | 1190 | NELAP | PA | 09/19/2018 |
| EPA 200.8 | 5.4 | 10014605 | Antimony | 1005 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Arsenic | 1010 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Barium | 1015 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Beryllium | 1020 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Cadmium | 1030 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Chromium | 1040 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Cobalt | 1050 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Copper | 1055 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Lead | 1075 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Manganese | 1090 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Mercury | 1095 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Molybdenum | 1100 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Nickel | 1105 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Selenium | 1140 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Silver | 1150 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Thallium | 1165 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Vanadium | 1185 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Zinc | 1190 | NELAP | PA | 02/15/2024 |
| EPA 300.0 | 2.1 | 10053200 | Chloride | 1575 | NELAP | PA | 09/19/2018 |

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Laboratory Scope of Accreditation



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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 | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|----------------------------------|------------|-----------------|--|------------------|--------------------|---------------|----------------|
| EPA 300.0 | 2.1 | 10053200 | Fluoride | 1730 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Nitrate as N | 1810 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Nitrite as N | 1840 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Orthophosphate as P | 1870 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Sulfate | 2000 | NELAP | PA | 09/19/2018 |
| HACH 8000 | | 60003001 | Chemical oxygen demand (COD) | 1565 | NELAP | PA | 09/19/2018 |
| SM 2120B - 2011 | 22nd ed. | 20039014 | Color | 1605 | NELAP | PA | 09/19/2018 |
| SM 2310B - 2011 | 22nd ed. | 20044411 | Acidity as CaCO ₃ | 1500 | NELAP | PA | 06/09/2022 |
| SM 2320B - 2011 | 22nd ed. | 20045414 | Alkalinity as CaCO ₃ | 1505 | NELAP | PA | 09/19/2018 |
| SM 2510B - 2011 | 22nd ed. | 20048413 | Conductivity | 1610 | NELAP | PA | 09/19/2018 |
| SM 2540C - 2015 | Online ed. | 20050435 | Residue, filterable (TDS) | 1955 | NELAP | PA | 09/19/2018 |
| SM 2540D - 2015 | Online ed. | 20051223 | Residue, nonfilterable (TSS) | 1960 | NELAP | PA | 09/19/2018 |
| SM 4500-Cl G - 2011 | 22nd ed. | 20081418 | Residual free chlorine | 1945 | NELAP | PA | 09/19/2018 |
| SM 4500-Cl G - 2011 | 22nd ed. | 20081418 | Total residual chlorine | 1940 | NELAP | PA | 09/19/2018 |
| SM 4500-H + B - 2011 | 22nd ed. | 20105015 | pH | 1900 | NELAP | PA | 09/19/2018 |
| SM 4500-NH ₃ B - 2011 | 22nd ed. | 20105811 | Ammonia distillation | 1404 | NELAP | PA | 01/18/2019 |
| SM 4500-NH ₃ F - 2011 | 22nd ed. | 20110649 | Ammonia as N | 1515 | NELAP | PA | 01/18/2019 |
| SM 4500-P B - 2011 | 22nd ed. | 20123211 | Preliminary treatment of phosphate samples | 1479 | NELAP | PA | 09/19/2018 |
| SM 4500-P E - 2011 | 22nd ed. | 20124010 | Phosphorus, total | 1910 | NELAP | PA | 09/19/2018 |
| SM 5210B - 2016 | Online ed. | 20135039 | Biochemical oxygen demand (BOD) | 1530 | NELAP | PA | 09/19/2018 |
| SM 5210B - 2016 | Online ed. | 20135039 | Carbonaceous BOD (CBOD) | 1555 | NELAP | PA | 09/19/2018 |
| SM 5310C - 2014 | Online ed. | 20138834 | Dissolved organic carbon (DOC) | 1710 | NELAP | PA | 12/15/2020 |

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EPA Lab Code: PA00052
TNI Code: TNI02133
PADWIS ID: 02257

Matrix: Drinking Water

| Method | Revision | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|---------------------------------|------------|-----------------|--------------------------------------|------------------|--------------------|---------------|----------------|
| SM 5310C - 2014 | Online ed. | 20138834 | Total organic carbon (TOC) | 2040 | NELAP | PA | 09/19/2018 |
| SM 5910B - 2011 | 22nd ed. | 20146218 | UV 254 | 2060 | NELAP | PA | 12/15/2020 |
| SM 9215 B-2004 (PCA) | 22nd ED | 20179811 | Heterotrophic bacteria (Enumeration) | 2555 | NELAP | PA | 07/26/2018 |
| SM 9223 B-2016 (Colilert-18) | 23rd ED | 20214431 | Total coliforms [RTCR] (P/A) | 2500 | NELAP | PA | 07/26/2018 |
| SM 9223 B-2016 (Colilert-18) | 23rd ED | 20214431 | E. coli (P/A) | 2525 | NELAP | PA | 07/26/2018 |
| SM 9223 B-2016 (Colilert-18/QT) | 23rd ED | 20213449 | E. coli (Enumeration) | 2525 | NELAP | PA | 07/26/2018 |
| SM 9223 B-2016 (Colilert-18/QT) | 23rd ED | 20213449 | Total coliform (Enumeration) | 2500 | NELAP | PA | 07/26/2018 |

Matrix: Non-Potable Water

| Method | Revision | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|---|----------|-----------------|------------------------------|------------------|--------------------|---------------|----------------|
| Colilert-18/Quanti-Tray (Fecal Coliforms) | | 60002688 | Fecal coliform (Enumeration) | 2530 | NELAP | PA | 07/26/2018 |
| EPA 160.4 | | 10010409 | Residue, volatile | 1970 | NELAP | PA | 09/19/2018 |
| EPA 1664 | A | 10127807 | Non-polar material | 1853 | NELAP | PA | 09/19/2018 |
| EPA 1664 | A | 10127807 | Oil and grease | 1803 | NELAP | PA | 09/19/2018 |
| EPA 180.1 | 2 | 10011800 | Turbidity | 2055 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Aluminum | 1000 | NELAP | PA | 09/19/2018 |

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|-----------|----------|-----------------|-----------------------------|------------------|--------------------|---------------|----------------|
| EPA 200.7 | 4.4 | 10013806 | Antimony | 1005 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Arsenic | 1010 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Barium | 1015 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Beryllium | 1020 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Boron | 1025 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Cadmium | 1030 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Calcium | 1035 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Chromium | 1040 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Cobalt | 1050 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Copper | 1055 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Iron | 1070 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Lead | 1075 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Magnesium | 1085 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Manganese | 1090 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Molybdenum | 1100 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Nickel | 1105 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Potassium | 1125 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Selenium | 1140 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Silica, as SiO ₂ | 1990 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Silver | 1150 | NELAP | PA | 08/20/2020 |
| EPA 200.7 | 4.4 | 10013806 | Sodium | 1155 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Strontium | 1160 | NELAP | PA | 09/19/2018 |

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100 Marshall Drive
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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 | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|-----------|----------|-----------------|------------|------------------|--------------------|---------------|----------------|
| EPA 200.7 | 4.4 | 10013806 | Thallium | 1165 | NELAP | PA | 06/09/2022 |
| EPA 200.7 | 4.4 | 10013806 | Tin | 1175 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Titanium | 1180 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Vanadium | 1185 | NELAP | PA | 09/19/2018 |
| EPA 200.7 | 4.4 | 10013806 | Zinc | 1190 | NELAP | PA | 09/19/2018 |
| EPA 200.8 | 5.4 | 10014605 | Antimony | 1005 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Arsenic | 1010 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Barium | 1015 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Beryllium | 1020 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Cadmium | 1030 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Chromium | 1040 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Cobalt | 1050 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Copper | 1055 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Lead | 1075 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Manganese | 1090 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Molybdenum | 1100 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Nickel | 1105 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Selenium | 1140 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Silver | 1150 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Thallium | 1165 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Vanadium | 1185 | NELAP | PA | 02/15/2024 |
| EPA 200.8 | 5.4 | 10014605 | Zinc | 1190 | NELAP | PA | 02/15/2024 |

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|-----------|----------|-----------------|---|------------------|--------------------|---------------|----------------|
| EPA 300.0 | 2.1 | 10053200 | Bromide | 1540 | NELAP | PA | 04/23/2019 |
| EPA 300.0 | 2.1 | 10053200 | Chloride | 1575 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Fluoride | 1730 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Nitrate as N | 1810 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Nitrite as N | 1840 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Orthophosphate as P | 1870 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Sulfate | 2000 | NELAP | PA | 09/19/2018 |
| EPA 3010 | A | 10133605 | Hot plate acid digestion (HNO ₃ + HCl) | 1420 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Metals by ICP/AES | 1097 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Aluminum | 1000 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Antimony | 1005 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Arsenic | 1010 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Barium | 1015 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Beryllium | 1020 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Boron | 1025 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Cadmium | 1030 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Calcium | 1035 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Chromium | 1040 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Cobalt | 1050 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Copper | 1055 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Iron | 1070 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Lead | 1075 | NELAP | PA | 09/19/2018 |

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Matrix: Non-Potable Water

| Method | Revision | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|-----------------|------------|-----------------|---------------------------------|------------------|--------------------|---------------|----------------|
| EPA 6010 | D | 10155950 | Magnesium | 1085 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Manganese | 1090 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Molybdenum | 1100 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Nickel | 1105 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Potassium | 1125 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Selenium | 1140 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Silica, as SiO ₂ | 1990 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Silver | 1150 | NELAP | PA | 08/20/2020 |
| EPA 6010 | D | 10155950 | Sodium | 1155 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Strontium | 1160 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Tin | 1175 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Titanium | 1180 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Vanadium | 1185 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Zinc | 1190 | NELAP | PA | 09/19/2018 |
| EPA 7196 | A | 10162400 | Chromium VI | 1045 | NELAP | PA | 09/19/2018 |
| HACH 8000 | | 60003001 | Chemical oxygen demand (COD) | 1565 | NELAP | PA | 09/19/2018 |
| SM 2120B - 2011 | 22nd ed. | 20039014 | Color | 1605 | NELAP | PA | 09/19/2018 |
| SM 2310B - 2011 | 22nd ed. | 20044411 | Acidity as CaCO ₃ | 1500 | NELAP | PA | 09/19/2018 |
| SM 2320B - 2011 | 22nd ed. | 20045414 | Alkalinity as CaCO ₃ | 1505 | NELAP | PA | 09/19/2018 |
| SM 2510B - 2011 | 22nd ed. | 20048413 | Conductivity | 1610 | NELAP | PA | 09/19/2018 |
| SM 2540B - 2015 | Online ed. | 20049438 | Residue, total | 1950 | NELAP | PA | 07/08/2021 |
| SM 2540C - 2015 | Online ed. | 20050435 | Residue, filterable (TDS) | 1955 | NELAP | PA | 07/30/2021 |

Ammarie Beach

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Attached to Certificate of Accreditation 023-008 expiration date 07/31/2024. 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: Non-Potable Water

| Method | Revision | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|---------------------------------|------------|-----------------|--|------------------|--------------------|---------------|----------------|
| SM 2540D - 2015 | Online ed. | 20051223 | Residue, nonfilterable (TSS) | 1960 | NELAP | PA | 09/19/2018 |
| SM 2540E - 2015 | Online ed. | 20051610 | Residue, volatile | 1970 | NELAP | PA | 09/19/2018 |
| SM 2540F - 2015 | Online ed. | 20052226 | Residue, settleable | 1965 | NELAP | PA | 09/19/2018 |
| SM 3500-Cr B - 2011 | 22nd ed. | 20066017 | Chromium VI | 1045 | NELAP | PA | 09/19/2018 |
| SM 4500-Cl G - 2011 | 22nd ed. | 20081418 | Residual free chlorine | 1945 | NELAP | PA | 09/19/2018 |
| SM 4500-Cl G - 2011 | 22nd ed. | 20081418 | Total residual chlorine | 1940 | NELAP | PA | 09/19/2018 |
| SM 4500-H + B - 2011 | 22nd ed. | 20105015 | pH | 1900 | NELAP | PA | 09/19/2018 |
| SM 4500-NH3 B - 2011 | 22nd ed. | 20105811 | Ammonia distillation | 1404 | NELAP | PA | 09/19/2018 |
| SM 4500-NH3 F - 2011 | 22nd ed. | 20110649 | Ammonia as N | 1515 | NELAP | PA | 09/19/2018 |
| SM 4500-NH3 F - 2011 | 22nd ed. | 20110649 | Kjeldahl nitrogen, total (TKN) | 1795 | NELAP | PA | 09/19/2018 |
| SM 4500-Norg D - 2011 | 22nd ed. | 20120245 | Kjeldahl nitrogen, total (TKN) | 1795 | NELAP | PA | 12/13/2023 |
| SM 4500-O G - 2016 | Online ed. | 20121679 | Oxygen (dissolved) | 1880 | NELAP | PA | 09/19/2018 |
| SM 4500-P B - 2011 | 22nd ed. | 20123211 | Preliminary treatment of phosphate samples | 1479 | NELAP | PA | 09/19/2018 |
| SM 4500-P E - 2011 | 22nd ed. | 20124010 | Phosphorus, total | 1910 | NELAP | PA | 09/19/2018 |
| SM 5210B - 2016 | Online ed. | 20135039 | Biochemical oxygen demand (BOD) | 1530 | NELAP | PA | 09/19/2018 |
| SM 5210B - 2016 | Online ed. | 20135039 | Carbonaceous BOD (CBOD) | 1555 | NELAP | PA | 09/19/2018 |
| SM 5310C - 2014 | Online ed. | 20138834 | Dissolved organic carbon (DOC) | 1710 | NELAP | PA | 12/15/2020 |
| SM 5310C - 2014 | Online ed. | 20138834 | Total organic carbon (TOC) | 2040 | NELAP | PA | 09/19/2018 |
| SM 5910B - 2011 | 22nd ed. | 20146218 | UV 254 | 2060 | NELAP | PA | 12/15/2020 |
| SM 9215 B-2004 (PCA) | 22nd ED | 20179811 | Heterotrophic bacteria (Enumeration) | 2555 | NELAP | PA | 07/06/2020 |
| SM 9223 B-2016 (Colilert-18/QT) | 23rd ED | 20213449 | E. coli (Enumeration) | 2525 | NELAP | PA | 09/15/2020 |

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Laboratory Scope of Accreditation



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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 | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|--------|----------|-----------------|---------|------------------|--------------------|---------------|----------------|
|--------|----------|-----------------|---------|------------------|--------------------|---------------|----------------|

Matrix: Solid and Chemical Materials

| Method | Revision | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|---------------|----------|-----------------|---|------------------|--------------------|---------------|----------------|
| ASTM D3987-85 | | 30030730 | Shake extraction of solid waste with water | 1386 | NELAP | PA | 09/19/2018 |
| EPA 160.4 | | 10010409 | Residue, volatile | 1970 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Bromide | 1540 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Chloride | 1575 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Fluoride | 1730 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Nitrate as N | 1810 | NELAP | PA | 09/19/2018 |
| EPA 300.0 | 2.1 | 10053200 | Sulfate | 2000 | NELAP | PA | 09/19/2018 |
| EPA 3010 | A | 10133605 | Hot plate acid digestion (HNO ₃ + HCl) | 1420 | NELAP | PA | 09/19/2018 |
| EPA 3050 | B | 10135601 | Acid digestion of solids | 1400 | NELAP | PA | 09/19/2018 |
| EPA 6010 | D | 10155950 | Metals by ICP/AES | 1097 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Aluminum | 1000 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Antimony | 1005 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Barium | 1015 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Beryllium | 1020 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Cadmium | 1030 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Calcium | 1035 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Chromium | 1040 | NELAP | PA | 04/03/2020 |

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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 | TNI Method Code | Analyte | TNI Analyte Code | Accreditation Type | Primary State | Effective Date |
|-----------------------|------------|-----------------|--------------------------------|------------------|--------------------|---------------|----------------|
| EPA 6010 | D | 10155950 | Cobalt | 1050 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Copper | 1055 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Iron | 1070 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Lead | 1075 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Magnesium | 1085 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Manganese | 1090 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Molybdenum | 1100 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Nickel | 1105 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Phosphorus, total | 1910 | NELAP | PA | 09/15/2020 |
| EPA 6010 | D | 10155950 | Potassium | 1125 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Silver | 1150 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Sodium | 1155 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Thallium | 1165 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155950 | Tin | 1175 | NELAP | PA | 04/03/2020 |
| EPA 6010 | D | 10155916 | Vanadium | 1185 | NELAP | PA | 09/22/2022 |
| EPA 6010 | D | 10155950 | Zinc | 1190 | NELAP | PA | 04/03/2020 |
| EPA 9045 | D | 10198455 | Corrosivity (pH) | 1625 | NELAP | PA | 09/19/2018 |
| SM 2540G - 2015 | Online ed. | 20005281 | Residue, total | 1950 | NELAP | PA | 09/19/2018 |
| SM 4500-NH3 B - 2011 | 22nd ed. | 20105811 | Ammonia distillation | 1404 | NELAP | PA | 04/23/2019 |
| SM 4500-NH3 F - 2011 | 22nd ed. | 20110649 | Ammonia as N | 1515 | NELAP | PA | 11/27/2019 |
| SM 4500-NH3 F - 2011 | 22nd ed. | 20110649 | Kjeldahl nitrogen, total (TKN) | 1795 | NELAP | PA | 09/19/2018 |
| SM 4500-Norg D - 2011 | 22nd ed. | 20120245 | Kjeldahl nitrogen, total (TKN) | 1795 | NELAP | PA | 12/13/2023 |

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