

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023  
Issued April 01, 2022  
Revised May 06, 2022

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

MR. JOHN T. RUANE  
MICROBAC LABORATORIES, INC - PITTSTON  
428 ROUTE 315 HIGHWAY  
PITTSTON, PA 18640

NY Lab Id No: 12150

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2016) for the category  
ENVIRONMENTAL ANALYSES NON POTABLE WATER  
All approved analytes are listed below:*

**Bacteriology**

Coliform, Fecal                      Colilert-18  
Coliform, Total (Enumeration) in Pools      SM 9223B-2016  
E. coli (Enumeration)                      SM 9223B-2016  
Heterotrophic Plate Count                      SimPlate

**Demand**

Biochemical Oxygen Demand                      SM 5210B-2016  
Carbonaceous BOD                      SM 5210B-2016  
Chemical Oxygen Demand                      Hach 8000 (1979)

**Fuel Oxygenates**

Methyl tert-butyl ether                      EPA 624.1

**Metals I**

Barium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Cadmium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Calcium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Chromium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Copper, Total                      EPA 200.7, Rev. 4.4 (1994)  
Iron, Total                      EPA 200.7, Rev. 4.4 (1994)  
Lead, Total                      EPA 200.7, Rev. 4.4 (1994)  
Magnesium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Manganese, Total                      EPA 200.7, Rev. 4.4 (1994)  
Nickel, Total                      EPA 200.7, Rev. 4.4 (1994)  
Potassium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Silver, Total                      EPA 200.7, Rev. 4.4 (1994)

**Metals I**

Sodium, Total                      EPA 200.7, Rev. 4.4 (1994)

**Metals II**

Aluminum, Total                      EPA 200.7, Rev. 4.4 (1994)  
Antimony, Total                      EPA 200.7, Rev. 4.4 (1994)  
Arsenic, Total                      EPA 200.7, Rev. 4.4 (1994)  
Chromium VI                      SM 3500-Cr B-2011  
Selenium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Vanadium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Zinc, Total                      EPA 200.7, Rev. 4.4 (1994)

**Metals III**

Cobalt, Total                      EPA 200.7, Rev. 4.4 (1994)  
Molybdenum, Total                      EPA 200.7, Rev. 4.4 (1994)  
Thallium, Total                      EPA 200.7, Rev. 4.4 (1994)  
Tin, Total                      EPA 200.7, Rev. 4.4 (1994)  
Titanium, Total                      EPA 200.7, Rev. 4.4 (1994)

**Mineral**

Acidity                      SM 2310B-2011  
Alkalinity                      SM 2320B-2011

**Miscellaneous**

Boron, Total                      EPA 200.7, Rev. 4.4 (1994)  
Color                      SM 2120B-2011  
Cyanide, Total                      EPA 335.4, Rev. 1.0 (1993)  
non-Polar Extractable Material (TPH)                      EPA 1664A

Serial No.: 65253

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**Miscellaneous**

Oil and Grease Total Recoverable	EPA 1664A
Phenols	EPA 420.4, Rev. 1.0 (1993)
Specific Conductance	SM 2510B-2011
Sulfide (as S)	SM 4500-S2- F-2011
Surfactant (MBAS)	SM 5540C-2011
Turbidity	EPA 180.1, Rev. 2.0 (1993)

**Nutrient**

Ammonia (as N)	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.2, Rev. 2.0 (1993)
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrate-Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
Orthophosphate (as P)	EPA 365.3 (Issued 1978)
Phosphorus, Total	EPA 365.1, Rev. 2.0 (1993)

**Residue**

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	EPA 160.4 (Issued 1971) SM 2540 E-2015

**Volatile Aromatics**

1,2-Dichlorobenzene	EPA 624.1
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**Volatile Aromatics**

1,3-Dichlorobenzene	EPA 624.1
1,4-Dichlorobenzene	EPA 624.1
Benzene	EPA 624.1
Chlorobenzene	EPA 624.1
Ethyl benzene	EPA 624.1
m/p-Xylenes	EPA 624.1
Naphthalene, Volatile	EPA 624.1
o-Xylene	EPA 624.1
Styrene	EPA 624.1
Toluene	EPA 624.1
Total Xylenes	EPA 624.1

**Volatile Halocarbons**

1,1,1-Trichloroethane	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 624.1
1,1,2-Trichloroethane	EPA 624.1
1,1-Dichloroethane	EPA 624.1
1,1-Dichloroethene	EPA 624.1
1,2-Dichloroethane	EPA 624.1
1,2-Dichloropropane	EPA 624.1
2-Chloroethylvinyl ether	EPA 624.1
Bromodichloromethane	EPA 624.1
Bromoform	EPA 624.1
Bromomethane	EPA 624.1
Carbon tetrachloride	EPA 624.1

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ENVIRONMENTAL ANALYSES NON POTABLE WATER*

*All approved analytes are listed below:*

**Volatile Halocarbons**

Chloroethane	EPA 624.1
Chloroform	EPA 624.1
Chloromethane	EPA 624.1
cis-1,2-Dichloroethene	EPA 624.1
cis-1,3-Dichloropropene	EPA 624.1
Dibromochloromethane	EPA 624.1
Methylene chloride	EPA 624.1
Tetrachloroethene	EPA 624.1
trans-1,2-Dichloroethene	EPA 624.1
trans-1,3-Dichloropropene	EPA 624.1
Trichloroethene	EPA 624.1
Trichlorofluoromethane	EPA 624.1
Vinyl chloride	EPA 624.1

**Volatiles Organics**

4-Methyl-2-Pentanone	EPA 624.1
Vinyl acetate	EPA 624.1

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**Bacteriology**

Coliform, Total / E. coli (Qualitative) SM 20, 21-23 9223B (-04) (Colilert)  
E. coli (Enumeration) SM 20, 21-23 9223B (-04) (Colilert)  
Heterotrophic Plate Count SimPlate

**Fuel Additives**

Methyl tert-butyl ether EPA 524.2  
Naphthalene EPA 524.2

**Metals I**

Barium, Total EPA 200.7 Rev. 4.4  
Cadmium, Total EPA 200.7 Rev. 4.4  
Chromium, Total EPA 200.7 Rev. 4.4  
Copper, Total EPA 200.7 Rev. 4.4  
Iron, Total EPA 200.7 Rev. 4.4  
Manganese, Total EPA 200.7 Rev. 4.4  
Zinc, Total EPA 200.7 Rev. 4.4

**Metals II**

Aluminum, Total EPA 200.7 Rev. 4.4  
Molybdenum, Total EPA 200.7 Rev. 4.4  
Nickel, Total EPA 200.7 Rev. 4.4  
Vanadium, Total EPA 200.7 Rev. 4.4

**Metals III**

Boron, Total EPA 200.7 Rev. 4.4  
Calcium, Total EPA 200.7 Rev. 4.4  
Magnesium, Total EPA 200.7 Rev. 4.4

**Metals III**

Potassium, Total EPA 200.7 Rev. 4.4  
Sodium, Total EPA 200.7 Rev. 4.4

**Miscellaneous**

Odor SM 21-23 2150 B (-97)  
Surfactant (MBAS) SM 21-23 5540C (-00)  
Turbidity EPA 180.1 Rev. 2.0  
UV 254 SM 21-23 5910B (-00,-11)

**Non-Metals**

Alkalinity SM 21-23 2320B (-97)  
Color SM 21-23 2120B (-01)  
Cyanide EPA 335.4 Rev. 1.0  
Nitrate (as N) EPA 353.2 Rev. 2.0  
Nitrite (as N) EPA 353.2 Rev. 2.0  
Orthophosphate (as P) SM 19, 21-23 4500-P E (-99)  
Silica, Total SM 21-23 4500-SiO2 C (-97)  
Solids, Total Dissolved SM 21-23 2540C (-97)  
Specific Conductance SM 21-23 2510B (-97)

**Trihalomethanes**

Bromodichloromethane EPA 524.2  
Bromoform EPA 524.2  
Chloroform EPA 524.2  
Dibromochloromethane EPA 524.2  
Total Trihalomethanes EPA 524.2

**Serial No.: 65224**

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**Volatile Aromatics**

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2

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All approved analytes are listed below:

**Volatile Halocarbons**

trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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