

State of Rhode Island and Providence Plantations
DEPARTMENT OF HEALTH
Certifies

LAO00310

MICROBAC LABORATORIES INC OHIO VALLEY DIVISION
158 STARLITE DRIVE
MARIETTA OH 45750
Laboratory Director: LESLIE BUCINA

for the analysis of: **Non-potable Water Organic Chemistry - Non-potable Water Inorganic Chemistry - Radiochemistry -**

This certificate is issued, pursuant to Rhode Island General Laws 23-16.2 and supersedes all previous Rhode Island certificates issued to this laboratory. Certification is no guarantee of the validity of the laboratory results.

This certificate is valid only when accompanied by the certificate and list of analytes and methods for which certification has been granted based upon the following out of state certification(s):

Certifying Authority
FL

Certification Number
E87551

Expiration Date
06/30/2017

MICROBAC LABORATORIES INC OHIO VALLEY DIVISION is responsible for maintaining each of the certifications listed above. Failure to notify the Laboratory Certification Officer of any change in the status of these certifications may result in the suspension or revocation of certification. Contact the Laboratory Certification Officer to verify the current certification status of this laboratory.

Nicole Alexander-Scott, MD, MPH
Director of Health

Expires: 12/30/2017

THIS CERTIFICATE IS TO BE CONSPICUOUSLY DISPLAYED AT THE LABORATORY IN A LOCATION VISABLE TO THE PUBLIC



State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that



E87551

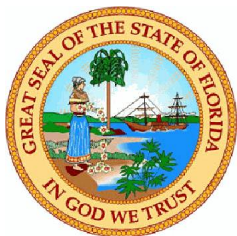
MICROBAC LABORATORIES, INC., OHIO VALLEY DIVISION
 158 STARLITE DRIVE
 MARIETTA, OH 45750

has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - GROUP II UNREGULATED CONTAMINANTS, DRINKING WATER - MICROBIOLOGY, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - RADIOCHEMISTRY, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - RADIOCHEMISTRY, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - RADIOCHEMISTRY, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: January 13, 2017 Expiration Date: June 30, 2017



Susanne Crowe

Susanne Crowe, MHA
 Acting Chief, Bureau of Public Health Laboratories
 DH Form 1697, 7/04
 NON-TRANSFERABLE E87551-35-01/13/2017
 Supersedes all previously issued certificates

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Acetylene	RSK-175	Group II Unregulated Contaminants	NELAP	11/15/2012
Alkalinity as CaCO ₃	EPA 310.1	Primary Inorganic Contaminants	NELAP	11/17/2016
Alkalinity as CaCO ₃	EPA 310.2	Primary Inorganic Contaminants	NELAP	11/17/2016
Alkalinity as CaCO ₃	SM 2320 B	Primary Inorganic Contaminants	NELAP	11/17/2016
Aluminum	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Antimony	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Arsenic	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Arsenic	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Barium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Barium	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Beryllium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Boron	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Cadmium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Cadmium	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Calcium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Carbon dioxide	RSK-175	Group II Unregulated Contaminants	NELAP	11/15/2012
Chloride	EPA 300.0	Secondary Inorganic Contaminants	NELAP	11/17/2016
Chloride	EPA 325.2	Secondary Inorganic Contaminants	NELAP	11/17/2016
Chloride	SM 4500-Cl ⁻ E	Secondary Inorganic Contaminants	NELAP	11/17/2016
Chromium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Chromium	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Cobalt	EPA 200.7	Radiochemistry	NELAP	11/17/2016
Cobalt	EPA 200.8	Radiochemistry	NELAP	11/17/2016
Conductivity	SM 2510 B	Primary Inorganic Contaminants	NELAP	11/17/2016
Copper	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Copper	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Ethane	RSK-175	Group II Unregulated Contaminants	NELAP	11/15/2012
Ethylene	RSK-175	Group II Unregulated Contaminants	NELAP	11/15/2012
Gamma emitters	EPA 901.1	Radiochemistry	NELAP	11/17/2016
Gross-alpha	EPA 900.0	Radiochemistry	NELAP	11/17/2016
Gross-beta	EPA 900.0	Radiochemistry	NELAP	11/17/2016
Hardness	SM 2340 B	Secondary Inorganic Contaminants	NELAP	11/17/2016
Iron	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Lead	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Lead	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Lithium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Magnesium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Manganese	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Manganese	EPA 200.8	Secondary Inorganic Contaminants	NELAP	11/17/2016
Mercury	EPA 245.1	Primary Inorganic Contaminants	NELAP	11/17/2016
Methane	RSK-175	Group II Unregulated Contaminants	NELAP	11/15/2012
Molybdenum	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
n-Butane	RSK-175	Group II Unregulated Contaminants	NELAP	7/13/2015
Nickel	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Nickel	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Nitrate	EPA 300.0	Primary Inorganic Contaminants	NELAP	11/17/2016
Nitrate	EPA 353.2	Primary Inorganic Contaminants	NELAP	11/17/2016
Nitrate	SM 4500-NO3 F	Primary Inorganic Contaminants	NELAP	11/17/2016
Perchlorate	EPA 331.0	Secondary Inorganic Contaminants	NELAP	11/15/2012
pH	EPA 150.1	Primary Inorganic Contaminants	NELAP	11/17/2016
pH	SM 4500-H+-B	Primary Inorganic Contaminants	NELAP	11/17/2016
Potassium	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Propane	RSK-175	Group II Unregulated Contaminants	NELAP	11/15/2012
Radium-226	EPA 903.0	Radiochemistry	NELAP	11/17/2016
Radium-228	EPA 904.0	Radiochemistry	NELAP	11/17/2016
Residue-nonfilterable (TSS)	SM 2540 D	Secondary Inorganic Contaminants	NELAP	11/17/2016
Selenium	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Silver	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Silver	EPA 200.8	Secondary Inorganic Contaminants	NELAP	11/17/2016
Sodium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Strontium	EPA 200.7	Primary Inorganic Contaminants	NELAP	11/17/2016
Sulfate	EPA 300.0	Primary Inorganic Contaminants	NELAP	11/17/2016
Sulfate	EPA 375.4	Secondary Inorganic Contaminants	NELAP	11/17/2016
Sulfate	SM 4500 SO4-E	Secondary Inorganic Contaminants	NELAP	11/17/2016
Surfactants - MBAS	SM 5540 C	Secondary Inorganic Contaminants	NELAP	11/17/2016
Thallium	EPA 200.8	Primary Inorganic Contaminants	NELAP	11/17/2016
Total coliforms	SM 9222B quant	Microbiology	NELAP	11/17/2016
Total dissolved solids	EPA 160.1	Secondary Inorganic Contaminants	NELAP	11/17/2016
Total dissolved solids	SM 2540 C	Secondary Inorganic Contaminants	NELAP	11/17/2016
Total organic carbon	SM 5310 C	Primary Inorganic Contaminants	NELAP	11/17/2016
Uranium	EPA 200.8	Radiochemistry	NELAP	11/17/2016
Vanadium	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016

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EPA Lab Code: **OH00218**

(740) 373-4071

E87551
Microbac Laboratories, Inc., Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Matrix: **Drinking Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Zinc	EPA 200.7	Secondary Inorganic Contaminants	NELAP	11/17/2016
Zinc	EPA 200.8	Secondary Inorganic Contaminants	NELAP	11/17/2016



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EPA Lab Code: **OH00218**

(740) 373-4071

E87551
Microbac Laboratories, Inc., Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,1-Trichloroethane	EPA 624	Volatile Organics	NELAP	5/16/2003
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2,2-Tetrachloroethane	EPA 624	Volatile Organics	NELAP	5/16/2003
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
1,1,2-Trichloroethane	EPA 624	Volatile Organics	NELAP	5/16/2003
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethane	EPA 624	Volatile Organics	NELAP	5/16/2003
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloroethylene	EPA 624	Volatile Organics	NELAP	5/16/2003
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	3/30/2006
1,2,4-Trichlorobenzene	EPA 625	Extractable Organics	NELAP	5/16/2003
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	5/7/2008
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	5/7/2008
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	5/16/2003
1,2-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	5/16/2003
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,2-Dichloroethane	EPA 624	Volatile Organics	NELAP	5/16/2003
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Dichloropropane	EPA 624	Volatile Organics	NELAP	5/16/2003
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	3/30/2006
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	3/1/2011
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330	Extractable Organics	NELAP	3/30/2006

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Issue Date: 1/13/2017

Expiration Date: 6/30/2017



Laboratory Scope of Accreditation

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State Laboratory ID: **E87551**

EPA Lab Code: **OH00218**

(740) 373-4071

E87551
Microbac Laboratories, Inc., Ohio Valley Division
158 Starlite Drive
Marietta, OH 45750

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,3-Butadiene	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
1,3-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	5/16/2003
1,3-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	5/16/2003
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	3/1/2011
1,3-Dinitrobenzene (1,3-DNB)	EPA 8330	Extractable Organics	NELAP	3/30/2006
1,4-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	5/16/2003
1,4-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	5/16/2003
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	7/1/2003
1,4-Dioxane (1,4-Diethyleneoxide)	OVL MSS01/GC-MS	Extractable Organics	NELAP	7/30/2010
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	3/30/2006
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	7/1/2003
1-Methylnaphthalene	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 625	Extractable Organics	NELAP	5/16/2003
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	3/30/2006
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,6-Trichlorophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330	Extractable Organics	NELAP	3/30/2006
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
2,4-Dichlorophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dimethylphenol	EPA 625	Extractable Organics	NELAP	5/16/2003
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrophenol	EPA 625	Extractable Organics	NELAP	5/16/2003

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Issue Date: 1/13/2017

Expiration Date: 6/30/2017

**Laboratory Scope of Accreditation**

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 625	Extractable Organics	NELAP	5/16/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 8330	Extractable Organics	NELAP	3/30/2006
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	3/30/2006
2,6-Dinitrotoluene (2,6-DNT)	EPA 625	Extractable Organics	NELAP	5/16/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 8330	Extractable Organics	NELAP	3/30/2006
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	3/30/2006
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330	Extractable Organics	NELAP	3/30/2006
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloroethyl vinyl ether	EPA 624	Volatile Organics	NELAP	5/16/2003
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Chloronaphthalene	EPA 625	Extractable Organics	NELAP	5/16/2003
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Hexanone	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Methyl-4,6-dinitrophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Naphthylamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitrophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
2-Nitropropane	EPA 8260	Volatile Organics	NELAP	7/1/2003
2-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	3/30/2006
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	3/30/2006
3,3'-Dichlorobenzidine	EPA 625	Extractable Organics	NELAP	5/16/2003
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	7/1/2003
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	3/30/2006
3/4-Methylphenols (m/p-Cresols)	EPA 8270	Extractable Organics	NELAP	7/30/2010
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	3/30/2006
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
3-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	3/30/2006
4,4'-DDD	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDE	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4,4'-DDT	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330	Extractable Organics	NELAP	3/30/2006
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	3/30/2006
4-Bromophenyl phenyl ether	EPA 625	Extractable Organics	NELAP	5/16/2003
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloro-3-methylphenol	EPA 625	Extractable Organics	NELAP	5/16/2003
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	3/30/2006
4-Chlorophenyl phenylether	EPA 625	Extractable Organics	NELAP	5/16/2003
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	3/30/2006
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	7/1/2003
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
4-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	3/30/2006
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	3/30/2006
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	3/30/2006
a,a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
Acenaphthene	EPA 625	Extractable Organics	NELAP	5/16/2003
Acenaphthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acenaphthylene	EPA 625	Extractable Organics	NELAP	5/16/2003
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Acetaldehyde	EPA 8315	Extractable Organics	NELAP	12/11/2014
Acetate	OVL HPLC12/HPLC-UV	Extractable Organics	NELAP	12/11/2014
Acetic acid	OVL HPLC03/HPLC-UV	Extractable Organics	NELAP	5/7/2008
Acetone	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acetophenone	EPA 8270	Extractable Organics	NELAP	3/30/2006

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Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Acetylene	OVL RSK01/GC-FID	Volatile Organics	NELAP	5/7/2008
Acidity, as CaCO ₃	EPA 305.1	General Chemistry	NELAP	5/16/2003
Acidity, as CaCO ₃	SM 2310 B	General Chemistry	NELAP	4/17/2007
Acrolein (Propenal)	EPA 624	Volatile Organics	NELAP	5/16/2003
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Acrylonitrile	EPA 624	Volatile Organics	NELAP	5/16/2003
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	7/1/2003
Aldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Alkalinity as CaCO ₃	EPA 310.2	General Chemistry	NELAP	5/16/2003
Alkalinity as CaCO ₃	SM 2320 B	General Chemistry	NELAP	5/16/2003
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	3/30/2006
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Aluminum	EPA 200.7	Metals	NELAP	5/16/2003
Aluminum	EPA 6010	Metals	NELAP	7/1/2003
Amenable cyanide	EPA 335.1	General Chemistry	NELAP	5/16/2003
Amenable cyanide	EPA 9010/9014	General Chemistry	NELAP	5/7/2008
Amenable cyanide	SM 4500-CN- G	General Chemistry	NELAP	4/17/2007
Ammonia as N	EPA 350.1	General Chemistry	NELAP	5/16/2003
Ammonia as N	SM 4500-NH3 G	General Chemistry	NELAP	11/15/2012
Aniline	EPA 8270	Extractable Organics	NELAP	7/1/2003
Anthracene	EPA 625	Extractable Organics	NELAP	5/16/2003
Anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Antimony	EPA 200.7	Metals	NELAP	5/16/2003
Antimony	EPA 200.8	Metals	NELAP	5/16/2003
Antimony	EPA 6010	Metals	NELAP	7/1/2003
Antimony	EPA 6020	Metals	NELAP	7/1/2003
Aramite	EPA 8270	Extractable Organics	NELAP	3/30/2006
Aroclor-1016 (PCB-1016)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1221 (PCB-1221)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1232 (PCB-1232)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aroclor-1242 (PCB-1242)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1248 (PCB-1248)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1254 (PCB-1254)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1260 (PCB-1260)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Aroclor-1262 (PCB-1262)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	3/27/2013
Aroclor-1268 (PCB-1268)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	11/15/2012
Arsenic	EPA 200.7	Metals	NELAP	5/16/2003
Arsenic	EPA 200.8	Metals	NELAP	5/16/2003
Arsenic	EPA 6010	Metals	NELAP	7/1/2003
Arsenic	EPA 6020	Metals	NELAP	7/1/2003
Atrazine	OVL MSS01/GC-MS	Extractable Organics	NELAP	7/30/2010
Barium	EPA 200.7	Metals	NELAP	5/16/2003
Barium	EPA 200.8	Metals	NELAP	3/30/2006
Barium	EPA 6010	Metals	NELAP	7/1/2003
Barium	EPA 6020	Metals	NELAP	3/30/2006
Benzaldehyde	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Benzene	EPA 624	Volatile Organics	NELAP	5/16/2003
Benzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Benzidine	EPA 625	Extractable Organics	NELAP	5/16/2003
Benzidine	EPA 8270	Extractable Organics	NELAP	3/30/2006
Benzo(a)anthracene	EPA 625	Extractable Organics	NELAP	5/16/2003
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(a)pyrene	EPA 625	Extractable Organics	NELAP	5/16/2003
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(b)fluoranthene	EPA 625	Extractable Organics	NELAP	5/16/2003
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(g,h,i)perylene	EPA 625	Extractable Organics	NELAP	5/16/2003
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzo(k)fluoranthene	EPA 625	Extractable Organics	NELAP	5/16/2003
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzoic acid	EPA 8270	Extractable Organics	NELAP	7/1/2003
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Beryllium	EPA 200.7	Metals	NELAP	5/16/2003
Beryllium	EPA 6010	Metals	NELAP	7/1/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Biochemical oxygen demand	EPA 405.1	General Chemistry	NELAP	5/16/2003
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	5/16/2003
Biphenyl	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
bis(2-Chloroethoxy)methane	EPA 625	Extractable Organics	NELAP	5/16/2003
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Chloroethyl) ether	EPA 625	Extractable Organics	NELAP	5/16/2003
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	7/1/2003
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 625	Extractable Organics	NELAP	5/16/2003
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	7/1/2003
Boron	EPA 200.7	Metals	NELAP	5/16/2003
Boron	EPA 6010	Metals	NELAP	7/1/2003
Bromide	EPA 300.0	General Chemistry	NELAP	5/16/2003
Bromide	EPA 9056	General Chemistry	NELAP	5/7/2008
Bromobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromodichloromethane	EPA 624	Volatile Organics	NELAP	5/16/2003
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Bromoform	EPA 624	Volatile Organics	NELAP	5/16/2003
Bromoform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Butyl benzyl phthalate	EPA 625	Extractable Organics	NELAP	5/16/2003
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Butyric acid (Butanoic acid)	OVL HPLC03/HPLC-UV	Extractable Organics	NELAP	5/7/2008
Cadmium	EPA 200.7	Metals	NELAP	5/16/2003
Cadmium	EPA 200.8	Metals	NELAP	3/30/2006
Cadmium	EPA 6010	Metals	NELAP	7/1/2003
Cadmium	EPA 6020	Metals	NELAP	3/30/2006
Calcium	EPA 200.7	Metals	NELAP	5/16/2003
Calcium	EPA 6010	Metals	NELAP	7/1/2003
Caprolactam	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Carbazole	EPA 8270	Extractable Organics	NELAP	3/30/2006
Carbon dioxide	RSK-175	Volatile Organics	NELAP	3/30/2006
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	7/1/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Carbon tetrachloride	EPA 624	Volatile Organics	NELAP	5/16/2003
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	5/16/2003
Chemical oxygen demand	EPA 410.4	General Chemistry	NELAP	5/16/2003
Chemical oxygen demand	HACH 8000	General Chemistry	NELAP	5/16/2003
Chlordane (tech.)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Chloride	EPA 300.0	General Chemistry	NELAP	5/16/2003
Chloride	EPA 325.2	General Chemistry	NELAP	5/16/2003
Chloride	EPA 9056	General Chemistry	NELAP	5/7/2008
Chloride	SM 4500-Cl ⁻ E	General Chemistry	NELAP	7/30/2010
Chlorobenzene	EPA 624	Volatile Organics	NELAP	5/16/2003
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chlorobenzilate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Chloroethane	EPA 624	Volatile Organics	NELAP	5/16/2003
Chloroethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroform	EPA 624	Volatile Organics	NELAP	5/16/2003
Chloroform	EPA 8260	Volatile Organics	NELAP	7/1/2003
Chloroprene	EPA 8260	Volatile Organics	NELAP	3/30/2006
Chromium	EPA 200.7	Metals	NELAP	5/16/2003
Chromium	EPA 200.8	Metals	NELAP	3/30/2006
Chromium	EPA 6010	Metals	NELAP	7/1/2003
Chromium	EPA 6020	Metals	NELAP	3/30/2006
Chromium VI	EPA 7196	General Chemistry	NELAP	3/30/2006
Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	General Chemistry	NELAP	5/7/2008
Chromium VI	SM 3500-Cr D (18th/19th Ed.)/UV-VIS	Metals	NELAP	5/16/2003
Chrysene	EPA 625	Extractable Organics	NELAP	5/16/2003
Chrysene	EPA 8270	Extractable Organics	NELAP	3/30/2006
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
cis-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	5/16/2003
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Cobalt	EPA 200.7	Metals	NELAP	5/16/2003
Cobalt	EPA 200.8	Metals	NELAP	3/30/2006
Cobalt	EPA 6010	Metals	NELAP	7/1/2003
Cobalt	EPA 6020	Metals	NELAP	3/30/2006

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Color	EPA 110.2	General Chemistry	NELAP	5/16/2003
Color	SM 2120 B	General Chemistry	NELAP	4/17/2007
Conductivity	EPA 120.1	General Chemistry	NELAP	5/16/2003
Conductivity	SM 2510 B	General Chemistry	NELAP	11/15/2012
Copper	EPA 200.7	Metals	NELAP	5/16/2003
Copper	EPA 200.8	Metals	NELAP	3/30/2006
Copper	EPA 6010	Metals	NELAP	7/1/2003
Copper	EPA 6020	Metals	NELAP	3/30/2006
Cyanide	EPA 335.2	General Chemistry	NELAP	5/16/2003
Cyanide	SM 4500-CN E	General Chemistry	NELAP	4/17/2007
Cyclohexane	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Cyclohexanone	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
delta-BHC	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diallate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Dibenz(a,h)anthracene	EPA 625	Extractable Organics	NELAP	5/16/2003
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dibromochloromethane	EPA 624	Volatile Organics	NELAP	5/16/2003
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dibromofluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dibromomethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dieldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	3/30/2006
Diesel range organics (DRO)	TX1005	Extractable Organics	NELAP	3/30/2006
Diethyl ether	EPA 8260	Volatile Organics	NELAP	3/30/2006
Diethyl phthalate	EPA 625	Extractable Organics	NELAP	5/16/2003
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-isopropylether (DIPE)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Dimethoate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Dimethyl phthalate	EPA 625	Extractable Organics	NELAP	5/16/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dimethyl sulfide	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Dimethyldisulfide	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Di-n-butyl phthalate	EPA 625	Extractable Organics	NELAP	5/16/2003
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Di-n-octyl phthalate	EPA 625	Extractable Organics	NELAP	5/16/2003
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Extractable Organics	NELAP	3/30/2006
Diphenylamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
Disulfoton	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Endosulfan I	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan II	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endosulfan sulfate	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin aldehyde	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Ethane	RSK-175	Volatile Organics	NELAP	3/30/2006
Ethanol	EPA 8015	Volatile Organics	NELAP	5/7/2008
Ethyl acetate	EPA 8260	Volatile Organics	NELAP	3/30/2006
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	3/30/2006
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	3/30/2006
Ethylbenzene	EPA 624	Volatile Organics	NELAP	5/16/2003
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Ethylene	RSK-175	Volatile Organics	NELAP	3/30/2006
Ethylene glycol	EPA 8015	Volatile Organics	NELAP	3/27/2013
Ethyl-t-butylether (ETBE)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Famphur	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Ferrous iron	SM 3500-Fe B (20th/21st Ed.)/UV-VIS	Metals	NELAP	7/30/2010
Fluoranthene	EPA 625	Extractable Organics	NELAP	5/16/2003
Fluoranthene	EPA 8270	Extractable Organics	NELAP	7/1/2003

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Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Fluorene	EPA 625	Extractable Organics	NELAP	5/16/2003
Fluorene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Fluoride	EPA 300.0	General Chemistry	NELAP	5/16/2003
Fluoride	EPA 340.2	General Chemistry	NELAP	5/16/2003
Fluoride	EPA 9056	General Chemistry	NELAP	5/7/2008
Fluoride	SM 4500 F-C	General Chemistry	NELAP	5/16/2003
Fluoroborate	OVL K9305/ISE	Extractable Organics	NELAP	12/11/2014
Formaldehyde	EPA 8315	Extractable Organics	NELAP	5/7/2008
Formate	OVL HPLC12/HPLC-UV	Extractable Organics	NELAP	12/11/2014
Free cyanide	EPA 9016	General Chemistry	NELAP	11/15/2012
Gamma emitters	EPA 901.1	Radiochemistry	NELAP	11/17/2016
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Gasoline range organics (GRO)	EPA 8015	Volatile Organics	NELAP	3/30/2006
Gross-alpha	EPA 900.0	Radiochemistry	NELAP	11/17/2016
Gross-alpha	EPA 9310	Radiochemistry	NELAP	11/17/2016
Gross-beta	EPA 900.0	Radiochemistry	NELAP	11/17/2016
Gross-beta	EPA 9310	Radiochemistry	NELAP	11/17/2016
Hardness	EPA 130.2	General Chemistry	NELAP	5/16/2003
Hardness	SM 2340 B	General Chemistry	NELAP	5/16/2003
Hardness	SM 2340 C	General Chemistry	NELAP	4/17/2007
Hardness (calc.)	EPA 200.7	Metals	NELAP	7/30/2010
Heptachlor	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Heptachlor epoxide	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Hexachlorobenzene	EPA 625	Extractable Organics	NELAP	5/16/2003
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 625	Extractable Organics	NELAP	5/16/2003
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorocyclopentadiene	EPA 625	Extractable Organics	NELAP	5/16/2003
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachloroethane	EPA 625	Extractable Organics	NELAP	5/16/2003

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	7/1/2003
Hexachlorophene	EPA 8270	Extractable Organics	NELAP	3/30/2006
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	3/30/2006
Hexamethylphosphoramide (HMPA)	OVL HPLC07/HPLC-MS-MS	Extractable Organics	NELAP	7/30/2010
Hexamethylphosphoramide (HMPA)	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Ignitability	EPA 1010	General Chemistry	NELAP	7/1/2003
Indeno(1,2,3-cd)pyrene	EPA 625	Extractable Organics	NELAP	5/16/2003
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	3/30/2006
Iron	EPA 200.7	Metals	NELAP	5/16/2003
Iron	EPA 6010	Metals	NELAP	7/1/2003
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	3/30/2006
Isodrin	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Isophorone	EPA 625	Extractable Organics	NELAP	5/16/2003
Isophorone	EPA 8270	Extractable Organics	NELAP	7/1/2003
Isoprene	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Isopropyl alcohol (2-Propanol)	EPA 8015	Volatile Organics	NELAP	5/7/2008
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Isosafrole	EPA 8270	Extractable Organics	NELAP	3/30/2006
Kepon	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Kjeldahl nitrogen - total	EPA 351.2	General Chemistry	NELAP	5/16/2003
Lactic acid	OVL HPLC03/HPLC-UV	Extractable Organics	NELAP	5/7/2008
Lead	EPA 200.7	Metals	NELAP	5/16/2003
Lead	EPA 200.8	Metals	NELAP	5/16/2003
Lead	EPA 6010	Metals	NELAP	7/1/2003
Lead	EPA 6020	Metals	NELAP	7/1/2003
Lithium	EPA 200.7	Metals	NELAP	3/30/2006
Lithium	EPA 6010	Metals	NELAP	7/1/2003
m/p-Xylenes	EPA 8260	Volatile Organics	NELAP	7/30/2010
Magnesium	EPA 200.7	Metals	NELAP	5/16/2003
Magnesium	EPA 6010	Metals	NELAP	7/1/2003
Malathion	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Manganese	EPA 200.7	Metals	NELAP	5/16/2003
Manganese	EPA 200.8	Metals	NELAP	3/30/2006
Manganese	EPA 6010	Metals	NELAP	7/1/2003
Manganese	EPA 6020	Metals	NELAP	3/30/2006

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Analyte	Method/Tech	Category	Certification Type	Effective Date
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Mercury	EPA 245.1	Metals	NELAP	5/16/2003
Mercury	EPA 7470	Metals	NELAP	5/16/2003
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	3/30/2006
Methane	RSK-175	Volatile Organics	NELAP	3/30/2006
Methanol	EPA 8015	Volatile Organics	NELAP	5/7/2008
Methapyrilene	EPA 8270	Extractable Organics	NELAP	3/30/2006
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Methyl acetate	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Methyl bromide (Bromomethane)	EPA 624	Volatile Organics	NELAP	5/16/2003
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl chloride (Chloromethane)	EPA 624	Volatile Organics	NELAP	5/16/2003
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	3/30/2006
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	3/30/2006
Methyl parathion (Parathion, methyl)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	3/30/2006
Methyl tert-butyl ether (MTBE)	OVL MSV10/GC-MS	Volatile Organics	NELAP	7/30/2010
Methylcyclohexane	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Methylene chloride	EPA 624	Volatile Organics	NELAP	5/16/2003
Methylene chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Molybdenum	EPA 200.7	Metals	NELAP	5/16/2003
Molybdenum	EPA 6010	Metals	NELAP	7/1/2003
Naphthalene	EPA 625	Extractable Organics	NELAP	5/16/2003
Naphthalene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Naphthalene	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Butane	RSK-175	Volatile Organics	NELAP	7/13/2015
n-Butyl alcohol	EPA 8260	Volatile Organics	NELAP	3/30/2006
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Nickel	EPA 200.7	Metals	NELAP	5/16/2003
Nickel	EPA 200.8	Metals	NELAP	3/30/2006
Nickel	EPA 6010	Metals	NELAP	7/1/2003
Nickel	EPA 6020	Metals	NELAP	3/30/2006
Nitrate	EPA 9056	General Chemistry	NELAP	5/7/2008
Nitrate	SM 4500-NO3 F	General Chemistry	NELAP	7/30/2010

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750****Matrix: Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Nitrate as N	EPA 300.0	General Chemistry	NELAP	5/16/2003
Nitrate as N	EPA 353.2	General Chemistry	NELAP	5/16/2003
Nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	5/16/2003
Nitrite	EPA 9056	General Chemistry	NELAP	5/7/2008
Nitrite	SM 4500-NO2-B	General Chemistry	NELAP	4/17/2007
Nitrite as N	EPA 300.0	General Chemistry	NELAP	5/16/2003
Nitrite as N	EPA 354.1	General Chemistry	NELAP	5/16/2003
Nitrobenzene	EPA 625	Extractable Organics	NELAP	5/16/2003
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Nitrobenzene	EPA 8330	Extractable Organics	NELAP	3/30/2006
Nitroglycerin	EPA 8330	Extractable Organics	NELAP	6/13/2007
Nitroglycerin	OVL HPLC02/HPLC-UV	Extractable Organics	NELAP	5/7/2008
Nitroquinoline-1-oxide	EPA 8270	Extractable Organics	NELAP	3/30/2006
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
n-Nitrosodimethylamine	EPA 625	Extractable Organics	NELAP	5/16/2003
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	3/30/2006
n-Nitrosodi-n-propylamine	EPA 625	Extractable Organics	NELAP	5/16/2003
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosodiphenylamine	EPA 625	Extractable Organics	NELAP	5/16/2003
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	7/1/2003
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	7/30/2010
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	3/30/2006
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	3/30/2006
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	3/30/2006
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330	Extractable Organics	NELAP	3/30/2006
Oil & Grease	EPA 1664A	General Chemistry	NELAP	5/16/2003
Organic nitrogen	TKN minus AMMONIA	General Chemistry	NELAP	5/16/2003
Orthophosphate as P	EPA 365.2	General Chemistry	NELAP	5/16/2003
Orthophosphate as P	SM 4500-P E	General Chemistry	NELAP	4/17/2007
Osmotic pressure	PADEP 391-2000-008	General Chemistry	NELAP	12/11/2014
o-Toluidine	EPA 8270	Extractable Organics	NELAP	3/30/2006
o-Xylene	EPA 8260	Volatile Organics	NELAP	3/30/2006
Parathion, ethyl	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Pentachlorobenzene	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Pentachloroethane	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Pentachloronitrobenzene (Quintozene)	EPA 8270	Extractable Organics	NELAP	3/30/2006
Pentachlorophenol	EPA 625	Extractable Organics	NELAP	5/16/2003
Pentachlorophenol	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pentaerythritoltetranitrate (PETN)	EPA 8330	Extractable Organics	NELAP	6/13/2007
Perchlorate	EPA 6850	General Chemistry	NELAP	7/30/2010
pH	EPA 150.1	General Chemistry	NELAP	5/16/2003
pH	SM 4500-H+-B	General Chemistry	NELAP	4/17/2007
Phenacetin	EPA 8270	Extractable Organics	NELAP	3/30/2006
Phenanthrene	EPA 625	Extractable Organics	NELAP	5/16/2003
Phenanthrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phenol	EPA 625	Extractable Organics	NELAP	5/16/2003
Phenol	EPA 8270	Extractable Organics	NELAP	7/1/2003
Phorate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Phosphorus, total	EPA 200.7	Metals	NELAP	7/30/2010
Phosphorus, total	EPA 365.4	General Chemistry	NELAP	5/16/2003
Phosphorus, total	EPA 6010	Metals	NELAP	7/30/2010
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Potassium	EPA 200.7	Metals	NELAP	5/16/2003
Potassium	EPA 6010	Metals	NELAP	7/1/2003
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	3/30/2006
Propanal (Propionaldehyde)	EPA 8315	Extractable Organics	NELAP	12/11/2014
Propane	OVL RSK01/GC-FID	Volatile Organics	NELAP	5/7/2008
Propionic acid (Propanoic acid)	OVL HPLC03/HPLC-UV	Extractable Organics	NELAP	5/7/2008
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	3/30/2006
Propylene glycol	EPA 8015	Volatile Organics	NELAP	11/15/2012
Pyrene	EPA 625	Extractable Organics	NELAP	5/16/2003
Pyrene	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pyridine	EPA 8270	Extractable Organics	NELAP	7/1/2003
Pyruvic acid	OVL HPLC03/HPLC-UV	Extractable Organics	NELAP	5/7/2008
Radium-226	EPA 903.0	Radiochemistry	NELAP	11/17/2016
Radium-228	EPA 904.0	Radiochemistry	NELAP	11/17/2016
Radium-228	EPA 9320	Radiochemistry	NELAP	11/17/2016
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330	Extractable Organics	NELAP	3/30/2006

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Residue-filterable (TDS)	EPA 160.1	General Chemistry	NELAP	5/16/2003
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	4/17/2007
Residue-nonfilterable (TSS)	EPA 160.2	General Chemistry	NELAP	5/16/2003
Residue-nonfilterable (TSS)	SM 2540 D	General Chemistry	NELAP	4/17/2007
Residue-settleable	EPA 160.5	General Chemistry	NELAP	5/16/2003
Residue-settleable	SM 2540 F	General Chemistry	NELAP	4/17/2007
Residue-total	EPA 160.3	General Chemistry	NELAP	5/16/2003
Residue-total	SM 2540 B	General Chemistry	NELAP	4/17/2007
Residue-volatile	EPA 160.4	General Chemistry	NELAP	5/16/2003
Safrole	EPA 8270	Extractable Organics	NELAP	3/30/2006
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Selenium	EPA 200.7	Metals	NELAP	5/16/2003
Selenium	EPA 200.8	Metals	NELAP	5/16/2003
Selenium	EPA 6010	Metals	NELAP	7/1/2003
Selenium	EPA 6020	Metals	NELAP	5/16/2003
Silica as SiO ₂	EPA 6010	Metals	NELAP	7/1/2003
Silica-dissolved	EPA 200.7	General Chemistry	NELAP	5/16/2003
Silicon	EPA 200.7	Metals	NELAP	5/16/2003
Silicon	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 200.7	Metals	NELAP	5/16/2003
Silver	EPA 200.8	Metals	NELAP	3/30/2006
Silver	EPA 6010	Metals	NELAP	7/1/2003
Silver	EPA 6020	Metals	NELAP	3/30/2006
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
Sodium	EPA 200.7	Metals	NELAP	5/16/2003
Sodium	EPA 6010	Metals	NELAP	7/1/2003
Strontium	EPA 200.7	Metals	NELAP	3/30/2006
Strontium	EPA 6010	Metals	NELAP	7/1/2003
Styrene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Sulfate	EPA 300.0	General Chemistry	NELAP	5/16/2003
Sulfate	EPA 375.4	General Chemistry	NELAP	5/16/2003
Sulfate	EPA 9056	General Chemistry	NELAP	5/7/2008
Sulfate	SM 4500 SO4-E	General Chemistry	NELAP	12/11/2014
Sulfide	EPA 376.1	General Chemistry	NELAP	5/16/2003
Sulfide	SM 4500-S F	General Chemistry	NELAP	4/17/2007
Sulfotep	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Surfactants - MBAS	SM 5540 C	General Chemistry	NELAP	4/17/2007
T-amylmethylether (TAME)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260	Volatile Organics	NELAP	7/1/2003
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetrachloroethylene (Perchloroethylene)	EPA 624	Volatile Organics	NELAP	5/16/2003
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Tetrachlorvinphos (Stirophos, Gardona)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Tetraethyl pyrophosphate (TEPP)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Tetrahydrofuran (THF)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Tetryl (methyl-2,4,6-trinitrophenylnitramine)	EPA 8330	Extractable Organics	NELAP	3/30/2006
Thallium	EPA 200.7	Metals	NELAP	5/16/2003
Thallium	EPA 200.8	Metals	NELAP	5/16/2003
Thallium	EPA 6010	Metals	NELAP	7/1/2003
Thallium	EPA 6020	Metals	NELAP	7/1/2003
Thionazin (Zinophos)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Tin	EPA 200.7	Metals	NELAP	5/16/2003
Tin	EPA 6010	Metals	NELAP	7/1/2003
Titanium	EPA 200.7	Metals	NELAP	5/16/2003
Titanium	EPA 6010	Metals	NELAP	3/30/2006
Toluene	EPA 624	Volatile Organics	NELAP	5/16/2003
Toluene	EPA 8260	Volatile Organics	NELAP	7/1/2003
Total cyanide	EPA 9010/9014	General Chemistry	NELAP	5/7/2008
Total organic carbon	EPA 415.1	General Chemistry	NELAP	5/16/2003
Total organic carbon	EPA 9060	General Chemistry	NELAP	5/7/2008
Total organic carbon	SM 5310 C	General Chemistry	NELAP	4/17/2007
Total Petroleum Hydrocarbons (TPH)	EPA 1664A	General Chemistry	NELAP	3/22/2011
Total Petroleum Hydrocarbons (TPH)	FL-PRO	General Chemistry	NELAP	7/30/2010
Total Petroleum Hydrocarbons (TPH)	TX1006	Extractable Organics	NELAP	5/7/2008
Total phenolics	EPA 420.1	General Chemistry	NELAP	5/16/2003
Total radium	EPA 903.0	Radiochemistry	NELAP	11/17/2016
Total radium	EPA 9315	Radiochemistry	NELAP	11/17/2016
Toxaphene (Chlorinated camphene)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	7/1/2003
trans-1,2-Dichloroethylene	EPA 624	Volatile Organics	NELAP	5/16/2003
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	5/16/2003

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Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	7/1/2003
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	3/30/2006
Trichloroethene (Trichloroethylene)	EPA 624	Volatile Organics	NELAP	5/16/2003
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Trichlorofluoromethane	EPA 624	Volatile Organics	NELAP	5/16/2003
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	7/1/2003
Turbidity	EPA 180.1	General Chemistry	NELAP	5/16/2003
Uranium	EPA 200.8	Metals	NELAP	7/30/2010
Uranium	EPA 6020	Metals	NELAP	7/30/2010
Vanadium	EPA 200.7	Metals	NELAP	5/16/2003
Vanadium	EPA 200.8	Metals	NELAP	3/30/2006
Vanadium	EPA 6010	Metals	NELAP	7/1/2003
Vanadium	EPA 6020	Metals	NELAP	3/30/2006
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	7/1/2003
Vinyl chloride	EPA 624	Volatile Organics	NELAP	5/16/2003
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	7/1/2003
Weak acid dissociable cyanide	SM 4500 CN-I	General Chemistry	NELAP	5/7/2008
Xylene (total)	EPA 624	Volatile Organics	NELAP	5/16/2003
Xylene (total)	EPA 8260	Volatile Organics	NELAP	7/1/2003
Zinc	EPA 200.7	Metals	NELAP	5/16/2003
Zinc	EPA 200.8	Metals	NELAP	3/30/2006
Zinc	EPA 6010	Metals	NELAP	7/1/2003
Zinc	EPA 6020	Metals	NELAP	3/30/2006
Zirconium	OVL ME600/ICP-AES	Metals	NELAP	7/30/2010

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,2-Diphenylhydrazine	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270	Extractable Organics	NELAP	3/1/2011
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330	Extractable Organics	NELAP	5/16/2003
1,3-Butadiene	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,3-Dinitrobenzene (1,3-DNB)	EPA 8270	Extractable Organics	NELAP	3/1/2011
1,3-Dinitrobenzene (1,3-DNB)	EPA 8330	Extractable Organics	NELAP	5/16/2003
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	5/16/2003
1,4-Dioxane (1,4-Diethyleneoxide)	OVL MSS01/GC-MS	Extractable Organics	NELAP	7/30/2010
1,4-Naphthoquinone	EPA 8270	Extractable Organics	NELAP	5/16/2003
1,4-Phenylenediamine	EPA 8270	Extractable Organics	NELAP	5/16/2003

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Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	5/16/2003
1-Methylnaphthalene	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
1-Naphthylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	5/16/2003
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330	Extractable Organics	NELAP	5/16/2003
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,4-Dinitrotoluene (2,4-DNT)	EPA 8330	Extractable Organics	NELAP	5/16/2003
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	5/16/2003
2,6-Dinitrotoluene (2,6-DNT)	EPA 8330	Extractable Organics	NELAP	5/16/2003
2-Acetylaminofluorene	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330	Extractable Organics	NELAP	5/16/2003
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	5/16/2003
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	5/16/2003
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	5/16/2003
2-Hexanone	EPA 8260	Volatile Organics	NELAP	5/16/2003
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Naphthylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
2-Nitropropane	EPA 8260	Volatile Organics	NELAP	5/16/2003
2-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	5/16/2003

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Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2-Picoline (2-Methylpyridine)	EPA 8270	Extractable Organics	NELAP	5/16/2003
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
3,3'-Dimethylbenzidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
3/4-Methylphenols (m/p-Cresols)	EPA 8270	Extractable Organics	NELAP	7/30/2010
3-Methylcholanthrene	EPA 8270	Extractable Organics	NELAP	5/16/2003
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	5/16/2003
3-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	5/16/2003
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330	Extractable Organics	NELAP	5/16/2003
4-Aminobiphenyl	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	5/16/2003
4-Dimethyl aminoazobenzene	EPA 8270	Extractable Organics	NELAP	3/30/2006
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	5/16/2003
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
4-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	5/16/2003
5-Nitro-o-toluidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
7,12-Dimethylbenz(a) anthracene	EPA 8270	Extractable Organics	NELAP	5/16/2003
a,a-Dimethylphenethylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
Acenaphthene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Acetone	EPA 8260	Volatile Organics	NELAP	5/16/2003
Acetonitrile	EPA 8260	Volatile Organics	NELAP	5/16/2003
Acetophenone	EPA 8270	Extractable Organics	NELAP	5/16/2003
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	5/16/2003
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	3/30/2006
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003

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**Laboratory Scope of Accreditation**

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750****Matrix: Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 6010	Metals	NELAP	5/16/2003
Aniline	EPA 8270	Extractable Organics	NELAP	5/16/2003
Anthracene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Antimony	EPA 6010	Metals	NELAP	5/16/2003
Antimony	EPA 6020	Metals	NELAP	5/16/2003
Aramite	EPA 8270	Extractable Organics	NELAP	5/16/2003
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Aroclor-1262 (PCB-1262)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	11/15/2012
Aroclor-1268 (PCB-1268)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	11/15/2012
Arsenic	EPA 6010	Metals	NELAP	5/16/2003
Arsenic	EPA 6020	Metals	NELAP	5/16/2003
Atrazine	OVL MSS01/GC-MS	Extractable Organics	NELAP	7/30/2010
Barium	EPA 6010	Metals	NELAP	5/16/2003
Barium	EPA 6020	Metals	NELAP	3/30/2006
Benzaldehyde	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Benzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Benzidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	3/1/2011
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Benzoic acid	EPA 8270	Extractable Organics	NELAP	5/16/2003
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	5/16/2003
Beryllium	EPA 6010	Metals	NELAP	5/16/2003
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Biphenyl	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	5/16/2003
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	5/16/2003
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	5/16/2003

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State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Boron	EPA 6010	Metals	NELAP	5/16/2003
Bromide	EPA 9056	General Chemistry	NELAP	5/16/2003
Bromobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Bromoform	EPA 8260	Volatile Organics	NELAP	5/16/2003
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Cadmium	EPA 6010	Metals	NELAP	5/16/2003
Cadmium	EPA 6020	Metals	NELAP	3/30/2006
Calcium	EPA 6010	Metals	NELAP	5/16/2003
Caprolactam	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Carbazole	EPA 8270	Extractable Organics	NELAP	5/16/2003
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	5/16/2003
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	5/16/2003
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Chloride	EPA 9056	General Chemistry	NELAP	5/16/2003
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Chlorobenzilate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Chloroethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Chloroform	EPA 8260	Volatile Organics	NELAP	5/16/2003
Chloroprene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Chromium	EPA 6010	Metals	NELAP	5/16/2003
Chromium	EPA 6020	Metals	NELAP	3/30/2006
Chromium VI	EPA 7196	General Chemistry	NELAP	3/30/2006
Chrysene	EPA 8270	Extractable Organics	NELAP	5/16/2003
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	5/16/2003
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Cobalt	EPA 6010	Metals	NELAP	5/16/2003
Cobalt	EPA 6020	Metals	NELAP	3/30/2006
Copper	EPA 6010	Metals	NELAP	5/16/2003
Copper	EPA 6020	Metals	NELAP	3/30/2006
Cyclohexane	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Cyclohexanone	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Diallate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	5/16/2003
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Dibromofluoromethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Dibromomethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	11/5/2004
Diethyl ether	EPA 8260	Volatile Organics	NELAP	5/16/2003
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Di-isopropylether (DIPE)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Dimethoate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Dimethyl sulfide	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Dimethyldisulfide	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270	Extractable Organics	NELAP	5/16/2003
Diphenylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
Disulfoton	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Ethanol	EPA 8015	Volatile Organics	NELAP	5/16/2003
Ethyl acetate	EPA 8260	Volatile Organics	NELAP	3/30/2006
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	5/16/2003
Ethyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Ethylene glycol	EPA 8015	Volatile Organics	NELAP	5/16/2003
Ethyl-t-butylether (ETBE)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008

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Issue Date: 1/13/2017**Expiration Date: 6/30/2017**

**Laboratory Scope of Accreditation**

Attachment to Certificate #: E87551-35, expiration date June 30, 2017. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87551**EPA Lab Code: **OH00218****(740) 373-4071****E87551****Microbac Laboratories, Inc., Ohio Valley Division****158 Starlite Drive****Marietta, OH 45750**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Famphur	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Fluoranthene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Fluorene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Fluoride	EPA 9056	General Chemistry	NELAP	5/16/2003
Formaldehyde	EPA 8315	Extractable Organics	NELAP	5/16/2003
Gamma emitters	OVL RAD9011/Gamma Spec.	Radiochemistry	NELAP	11/17/2016
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	11/5/2004
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	5/16/2003
Hexachlorophene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Hexachloropropene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Hexamethylphosphoramide (HMPA)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Ignitability	EPA 1010	General Chemistry	NELAP	5/16/2003
Ignitability	EPA 1030	General Chemistry	NELAP	12/11/2014
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Iron	EPA 6010	Metals	NELAP	5/16/2003
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	3/30/2006
Isodrin	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Isophorone	EPA 8270	Extractable Organics	NELAP	5/16/2003
Isoprene	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Isopropyl alcohol (2-Propanol)	EPA 8015	Volatile Organics	NELAP	5/16/2003
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Isosafrole	EPA 8270	Extractable Organics	NELAP	5/16/2003
Kepon	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Lead	EPA 6010	Metals	NELAP	5/16/2003
Lead	EPA 6020	Metals	NELAP	5/16/2003
Lithium	EPA 6010	Metals	NELAP	5/16/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
m/p-Xylenes	EPA 8260	Volatile Organics	NELAP	4/17/2015
Magnesium	EPA 6010	Metals	NELAP	5/16/2003
Malathion	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Manganese	EPA 6010	Metals	NELAP	5/16/2003
Manganese	EPA 6020	Metals	NELAP	3/30/2006
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Mercury	EPA 7471	Metals	NELAP	2/6/2004
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	5/16/2003
Methanol	EPA 8015	Volatile Organics	NELAP	5/16/2003
Methapyrilene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Methyl acetate	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	5/16/2003
Methyl methanesulfonate	EPA 8270	Extractable Organics	NELAP	5/16/2003
Methyl parathion (Parathion, methyl)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Methylcyclohexane	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Methylene chloride	EPA 8260	Volatile Organics	NELAP	5/16/2003
Molybdenum	EPA 6010	Metals	NELAP	5/16/2003
Naphthalene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Naphthalene	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Butyl alcohol	EPA 8260	Volatile Organics	NELAP	3/30/2006
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
n-Hexane	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
Nickel	EPA 6010	Metals	NELAP	5/16/2003
Nickel	EPA 6020	Metals	NELAP	3/30/2006
Nitrate	EPA 9056	General Chemistry	NELAP	5/16/2003
Nitrite	EPA 9056	General Chemistry	NELAP	5/16/2003
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Nitrobenzene	EPA 8330	Extractable Organics	NELAP	5/16/2003
Nitroglycerin	EPA 8330	Extractable Organics	NELAP	6/13/2007
Nitroquinoline-1-oxide	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosodiethylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003

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Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitroso-di-n-butylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosomethylethylamine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosomorpholine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosopiperidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Nitrosopyrrolidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
o,o,o-Triethyl phosphorothioate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330	Extractable Organics	NELAP	5/16/2003
Oil & Grease	EPA 9071	General Chemistry	NELAP	11/15/2012
o-Toluidine	EPA 8270	Extractable Organics	NELAP	5/16/2003
o-Xylene	EPA 8260	Volatile Organics	NELAP	4/17/2015
Paint Filter Liquids Test	EPA 9095	General Chemistry	NELAP	5/16/2003
Parathion, ethyl	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Pentachlorobenzene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Pentachloroethane	OVL MSS01/GC-MS	Extractable Organics	NELAP	5/7/2008
Pentachloronitrobenzene (Quintozene)	EPA 8270	Extractable Organics,Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Pentachlorophenol	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
Pentaerythritoltetranitrate (PETN)	EPA 8330	Extractable Organics	NELAP	6/13/2007
Perchlorate	EPA 6850	General Chemistry	NELAP	7/30/2010
pH	EPA 9040	General Chemistry	NELAP	2/6/2004
pH	EPA 9045	General Chemistry	NELAP	2/6/2004
Phenacetin	EPA 8270	Extractable Organics	NELAP	5/16/2003
Phenanthrene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Phenol	EPA 8270	Extractable Organics	NELAP	5/16/2003
Phorate	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/1/2011
Phosphorus, total	EPA 6010	Metals	NELAP	7/30/2010
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Potassium	EPA 6010	Metals	NELAP	5/16/2003
Pronamide (Kerb)	EPA 8270	Extractable Organics	NELAP	5/16/2003
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	3/30/2006
Propylene glycol	EPA 8015	Volatile Organics	NELAP	11/15/2012

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Pyrene	EPA 8270	Extractable Organics	NELAP	5/16/2003
Pyridine	EPA 8270	Extractable Organics	NELAP	5/16/2003
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330	Extractable Organics	NELAP	5/16/2003
Reactive cyanide	Sec. 7.3 SW-846	General Chemistry	NELAP	5/16/2003
Reactive sulfide	Sec. 7.3 SW-846	General Chemistry	NELAP	5/16/2003
Residue-fixed	SM 2540 G	General Chemistry	NELAP	12/11/2014
Residue-total	SM 2540 G	General Chemistry	NELAP	12/11/2014
Residue-volatile	SM 2540 G	General Chemistry	NELAP	12/11/2014
Safrole	EPA 8270	Extractable Organics	NELAP	5/16/2003
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Selenium	EPA 6010	Metals	NELAP	5/16/2003
Selenium	EPA 6020	Metals	NELAP	11/7/2003
Silver	EPA 6010	Metals	NELAP	3/1/2011
Silver	EPA 6020	Metals	NELAP	3/30/2006
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Sodium	EPA 6010	Metals	NELAP	5/16/2003
Strontium	EPA 6010	Metals	NELAP	5/16/2003
Styrene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Sulfate	EPA 9056	General Chemistry	NELAP	5/16/2003
Sulfide	EPA 9030/9034	General Chemistry	NELAP	5/16/2003
Sulfotep	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Synthetic Precipitation Leaching Procedure	EPA 1312	General Chemistry	NELAP	5/16/2003
T-amylmethylether (TAME)	OVL MSV01/GC-MS	Volatile Organics	NELAP	5/7/2008
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260	Volatile Organics	NELAP	5/16/2003
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Tetrachlorvinphos (Stirophos, Gardona)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Tetraethyl pyrophosphate (TEPP)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	3/30/2006
Tetryl (methyl-2,4,6-trinitrophenylnitramine)	EPA 8330	Extractable Organics	NELAP	5/16/2003
Thallium	EPA 6010	Metals	NELAP	5/16/2003
Thallium	EPA 6020	Metals	NELAP	5/16/2003
Thionazin (Zinophos)	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Tin	EPA 6010	Metals	NELAP	5/16/2003
Titanium	EPA 6010	Volatile Organics	NELAP	3/30/2006
Toluene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Total cyanide	EPA 9010/9014	General Chemistry	NELAP	7/30/2010

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Analyte	Method/Tech	Category	Certification Type	Effective Date
Total organic carbon	Lloyd Khan	General Chemistry	NELAP	5/7/2008
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	5/16/2003
Total Petroleum Hydrocarbons (TPH)	TX1005	Extractable Organics	NELAP	3/30/2006
Total Petroleum Hydrocarbons (TPH)	TX1006	Extractable Organics	NELAP	3/30/2006
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	5/16/2003
Toxicity Characteristic Leaching Procedure	EPA 1311	General Chemistry	NELAP	5/16/2003
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	5/16/2003
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	5/16/2003
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	5/16/2003
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	5/16/2003
Uranium	EPA 6020	Metals	NELAP	7/30/2010
Vanadium	EPA 6010	Metals	NELAP	5/16/2003
Vanadium	EPA 6020	Metals	NELAP	3/30/2006
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	5/16/2003
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	5/16/2003
Xylene (total)	EPA 8260	Volatile Organics	NELAP	5/16/2003
Zinc	EPA 6010	Metals	NELAP	5/16/2003
Zinc	EPA 6020	Metals	NELAP	3/30/2006
Zirconium	OVL ME600/ICP-AES	Metals	NELAP	7/30/2010