



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



E871088

MICROBAC LABORATORIES, INC - KENTUCKY DIVISION
3323 GILMORE INDUSTRIAL BLVD.
LOUISVILLE, KY 40213

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

NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS

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: December 10, 2019 Expiration Date: June 30, 2020



A blue ink signature of Patty A. Lewandowski.

Patty A. Lewandowski, MBA, MT(ASCP)
Chief Bureau of Public Health Laboratories
DH Form 1697, 7/04

NON-TRANSFERABLE E871088-31-12/10/2019
Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E871088-31, expiration date June 30, 2020. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E871088**

EPA Lab Code: **KY00068**

(502) 962-6400

E871088
Microbac Laboratories, Inc - Kentucky Division
3323 Gilmore Industrial Blvd.
Louisville, KY 40213

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,1,1-Trichloroethane	EPA 624	Volatile Organics	NELAP	10/3/2018
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,1,2,2-Tetrachloroethane	EPA 624	Volatile Organics	NELAP	10/3/2018
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,1,2-Trichloroethane	EPA 624	Volatile Organics	NELAP	10/3/2018
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,1-Dichloroethane	EPA 624	Volatile Organics	NELAP	10/3/2018
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,1-Dichloroethylene	EPA 624	Volatile Organics	NELAP	10/3/2018
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	10/3/2018
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2-Dichloroethane	EPA 624	Volatile Organics	NELAP	10/3/2018
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,2-Dichloropropane	EPA 624	Volatile Organics	NELAP	10/3/2018
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,3-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	10/3/2018
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	10/3/2018
1,4-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	10/3/2018
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	10/3/2018
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	10/3/2018
2-Chloroethyl vinyl ether	EPA 624	Volatile Organics	NELAP	10/3/2018
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	10/3/2018
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	10/3/2018
2-Hexanone	EPA 8260	Volatile Organics	NELAP	10/3/2018

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Issue Date: 12/10/2019

Expiration Date: 6/30/2020



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EPA Lab Code: **KY00068**

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Louisville, KY 40213

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	10/3/2018
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Acetone	EPA 8260	Volatile Organics	NELAP	10/3/2018
Acidity, as CaCO3	SM 2310 B	General Chemistry	NELAP	12/4/2019
Acrolein (Propenal)	EPA 624	Volatile Organics	NELAP	10/3/2018
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Acrylonitrile	EPA 624	Volatile Organics	NELAP	10/3/2018
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	10/3/2018
Alkalinity as CaCO3	SM 2320 B	General Chemistry	NELAP	10/3/2018
Aluminum	EPA 200.7	Metals	NELAP	10/3/2018
Aluminum	EPA 200.8	Metals	NELAP	10/3/2018
Aluminum	EPA 6010	Metals	NELAP	10/3/2018
Ammonia as N	SM 4500-NH3 G (19th,20th,21st Ed.)/UV-VIS	General Chemistry	NELAP	10/3/2018
Antimony	EPA 200.7	Metals	NELAP	10/3/2018
Antimony	EPA 200.8	Metals	NELAP	10/3/2018
Antimony	EPA 6010	Metals	NELAP	10/3/2018
Arsenic	EPA 200.7	Metals	NELAP	10/3/2018
Arsenic	EPA 200.8	Metals	NELAP	9/12/2019
Arsenic	EPA 6010	Metals	NELAP	10/3/2018
Barium	EPA 200.7	Metals	NELAP	10/3/2018
Barium	EPA 200.8	Metals	NELAP	10/3/2018
Barium	EPA 6010	Metals	NELAP	10/3/2018
Benzene	EPA 624	Volatile Organics	NELAP	10/3/2018
Benzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Beryllium	EPA 200.7	Metals	NELAP	10/3/2018
Beryllium	EPA 200.8	Metals	NELAP	9/6/2019
Beryllium	EPA 6010	Metals	NELAP	10/3/2018
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	10/3/2018
Boron	EPA 200.7	Metals	NELAP	10/3/2018
Boron	EPA 6010	Metals	NELAP	10/3/2018
Bromide	EPA 300.0	General Chemistry	NELAP	10/3/2018
Bromide	EPA 9056	General Chemistry	NELAP	10/3/2018
Bromobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Bromodichloromethane	EPA 624	Volatile Organics	NELAP	10/3/2018

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Bromoform	EPA 624	Volatile Organics	NELAP	10/3/2018
Bromoform	EPA 8260	Volatile Organics	NELAP	10/3/2018
Cadmium	EPA 200.7	Metals	NELAP	10/3/2018
Cadmium	EPA 200.8	Metals	NELAP	10/3/2018
Cadmium	EPA 6010	Metals	NELAP	10/3/2018
Calcium	EPA 200.7	Metals	NELAP	10/3/2018
Calcium	EPA 6010	Metals	NELAP	10/3/2018
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	10/3/2018
Carbon tetrachloride	EPA 624	Volatile Organics	NELAP	10/3/2018
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	10/3/2018
Chemical oxygen demand	SM 5220 D	General Chemistry	NELAP	10/3/2018
Chloride	EPA 300.0	General Chemistry	NELAP	10/3/2018
Chloride	EPA 9056	General Chemistry	NELAP	10/3/2018
Chloride	SM 4500-Cl ⁻ E	General Chemistry	NELAP	10/3/2018
Chlorobenzene	EPA 624	Volatile Organics	NELAP	10/3/2018
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Chloroethane	EPA 624	Volatile Organics	NELAP	10/3/2018
Chloroethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Chloroform	EPA 624	Volatile Organics	NELAP	10/3/2018
Chloroform	EPA 8260	Volatile Organics	NELAP	10/3/2018
Chromium	EPA 200.7	Metals	NELAP	10/3/2018
Chromium	EPA 200.8	Metals	NELAP	10/3/2018
Chromium	EPA 6010	Metals	NELAP	10/3/2018
Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	General Chemistry	NELAP	10/3/2018
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	10/3/2018
cis-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	10/3/2018
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Cobalt	EPA 200.7	Metals	NELAP	10/3/2018
Cobalt	EPA 200.8	Metals	NELAP	10/3/2018
Cobalt	EPA 6010	Metals	NELAP	10/3/2018
Conductivity	SM 2510 B	General Chemistry	NELAP	10/3/2018
Copper	EPA 200.7	Metals	NELAP	10/3/2018
Copper	EPA 200.8	Metals	NELAP	9/12/2019
Copper	EPA 6010	Metals	NELAP	10/3/2018

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Louisville, KY 40213

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Dibromochloromethane	EPA 624	Volatile Organics	NELAP	10/3/2018
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Dibromomethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Enterococci	ASTM D6503-99	Microbiology	NELAP	10/3/2018
Escherichia coli	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	10/3/2018
Ethylbenzene	EPA 624	Volatile Organics	NELAP	10/3/2018
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Fecal coliforms	COLILERT®-18 (Fecal Coliforms)	Microbiology	NELAP	10/3/2018
Fluoride	EPA 300.0	General Chemistry	NELAP	10/3/2018
Fluoride	EPA 9056	General Chemistry	NELAP	10/3/2018
Hardness	SM 2340 B	General Chemistry	NELAP	10/3/2018
Hardness (calc.)	EPA 200.7	Metals	NELAP	10/3/2018
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Ignitability	EPA 1010	General Chemistry	NELAP	10/3/2018
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Iron	EPA 200.7	Metals	NELAP	10/3/2018
Iron	EPA 6010	Metals	NELAP	10/3/2018
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Kjeldahl nitrogen - total	SM 4500-NH3 G (19th,20th,21st Ed.)/UV-VIS	General Chemistry	NELAP	10/3/2018
Lead	EPA 200.7	Metals	NELAP	10/3/2018
Lead	EPA 200.8	Metals	NELAP	10/3/2018
Lead	EPA 6010	Metals	NELAP	10/3/2018
m/p-Xylenes	EPA 8260	Volatile Organics	NELAP	10/3/2018
Magnesium	EPA 200.7	Metals	NELAP	10/3/2018
Magnesium	EPA 6010	Metals	NELAP	10/3/2018
Manganese	EPA 200.7	Metals	NELAP	10/3/2018
Manganese	EPA 200.8	Metals	NELAP	10/3/2018
Manganese	EPA 6010	Metals	NELAP	10/3/2018
Methyl bromide (Bromomethane)	EPA 624	Volatile Organics	NELAP	10/3/2018
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Methyl chloride (Chloromethane)	EPA 624	Volatile Organics	NELAP	10/3/2018
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	10/3/2018

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E871088
Microbac Laboratories, Inc - Kentucky Division
3323 Gilmore Industrial Blvd.
Louisville, KY 40213

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Methylene chloride	EPA 624	Volatile Organics	NELAP	10/3/2018
Methylene chloride	EPA 8260	Volatile Organics	NELAP	10/3/2018
Molybdenum	EPA 200.7	Metals	NELAP	10/3/2018
Molybdenum	EPA 200.8	Metals	NELAP	10/3/2018
Molybdenum	EPA 6010	Metals	NELAP	10/3/2018
Naphthalene	EPA 8260	Volatile Organics	NELAP	10/3/2018
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Nickel	EPA 200.7	Metals	NELAP	10/3/2018
Nickel	EPA 6010	Metals	NELAP	10/3/2018
Nitrate	EPA 300.0	General Chemistry	NELAP	10/3/2018
Nitrate	EPA 9056	General Chemistry	NELAP	10/3/2018
Nitrite	EPA 300.0	General Chemistry	NELAP	10/3/2018
Nitrite	EPA 9056	General Chemistry	NELAP	10/3/2018
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Oil & Grease	EPA 1664B	General Chemistry	NELAP	10/3/2018
Orthophosphate as P	EPA 300.0	General Chemistry	NELAP	10/3/2018
Orthophosphate as P	EPA 365.1	General Chemistry	NELAP	10/3/2018
Orthophosphate as P	EPA 9056	General Chemistry	NELAP	10/3/2018
o-Xylene	EPA 8260	Volatile Organics	NELAP	10/3/2018
pH	SM 4500-H+-B	General Chemistry	NELAP	10/3/2018
Phosphorus, total	EPA 200.7	Metals	NELAP	10/3/2018
Phosphorus, total	EPA 365.1	General Chemistry	NELAP	10/3/2018
Phosphorus, total	EPA 6010	Metals	NELAP	10/3/2018
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Potassium	EPA 200.7	Metals	NELAP	10/3/2018
Potassium	EPA 6010	Metals	NELAP	10/3/2018
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	10/3/2018
Residue-nonfilterable (TSS)	USGS I-3765-85	General Chemistry	NELAP	10/3/2018
Residue-settleable	SM 2540 F	General Chemistry	NELAP	10/3/2018
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Selenium	EPA 200.7	Metals	NELAP	10/3/2018
Selenium	EPA 6010	Metals	NELAP	10/3/2018
Silver	EPA 200.7	Metals	NELAP	10/3/2018
Silver	EPA 6010	Metals	NELAP	10/3/2018
Sodium	EPA 200.7	Metals	NELAP	10/3/2018
Sodium	EPA 6010	Metals	NELAP	10/3/2018

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Microbac Laboratories, Inc - Kentucky Division

3323 Gilmore Industrial Blvd.

Louisville, KY 40213

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Strontium	EPA 200.7	Metals	NELAP	10/3/2018
Styrene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Sulfate	EPA 300.0	General Chemistry	NELAP	10/3/2018
Sulfate	EPA 9056	General Chemistry	NELAP	10/3/2018
Sulfide	SM 4500-S D/UV-VIS	General Chemistry	NELAP	10/3/2018
Sulfite-SO3	SM 4500-SO3 B	General Chemistry	NELAP	10/3/2018
Surfactants - MBAS	SM 5540 C	General Chemistry	NELAP	10/3/2018
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Tetrachloroethylene (Perchloroethylene)	EPA 624	Volatile Organics	NELAP	10/3/2018
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Thallium	EPA 200.7	Metals	NELAP	10/3/2018
Thallium	EPA 200.8	Metals	NELAP	9/6/2019
Thallium	EPA 6010	Metals	NELAP	10/3/2018
Tin	EPA 200.7	Metals	NELAP	10/3/2018
Tin	EPA 6010	Metals	NELAP	10/3/2018
Titanium	EPA 200.7	Metals	NELAP	10/3/2018
Titanium	EPA 6010	Metals	NELAP	10/3/2018
Toluene	EPA 624	Volatile Organics	NELAP	10/3/2018
Toluene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Total coliforms	SM 9223 B /QUANTI-TRAY	Microbiology	NELAP	10/3/2018
Total nitrate-nitrite	EPA 300.0	General Chemistry	NELAP	10/3/2018
Total nitrate-nitrite	EPA 9056	General Chemistry	NELAP	10/3/2018
Total organic carbon	SM 5310 C	General Chemistry	NELAP	10/3/2018
Total Petroleum Hydrocarbons (TPH)	EPA 1664B	General Chemistry	NELAP	10/3/2018
trans-1,2-Dichloroethylene	EPA 624	Volatile Organics	NELAP	10/3/2018
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	10/3/2018
trans-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	10/3/2018
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	10/3/2018
Trichloroethene (Trichloroethylene)	EPA 624	Volatile Organics	NELAP	10/3/2018
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Trichlorofluoromethane	EPA 624	Volatile Organics	NELAP	10/3/2018
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	10/3/2018
Turbidity	SM 2130 B	General Chemistry	NELAP	10/3/2018
Vanadium	EPA 200.7	Metals	NELAP	10/3/2018
Vanadium	EPA 200.8	Metals	NELAP	9/12/2019
Vanadium	EPA 6010	Metals	NELAP	10/3/2018

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	10/3/2018
Vinyl chloride	EPA 624	Volatile Organics	NELAP	10/3/2018
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	10/3/2018
Xylene (total)	EPA 624	Volatile Organics	NELAP	10/3/2018
Xylene (total)	EPA 8260	Volatile Organics	NELAP	10/3/2018
Zinc	EPA 200.7	Metals	NELAP	10/3/2018
Zinc	EPA 200.8	Metals	NELAP	9/6/2019
Zinc	EPA 6010	Metals	NELAP	10/3/2018



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Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aluminum	EPA 6010	Metals	NELAP	10/3/2018
Arsenic	EPA 6010	Metals	NELAP	10/3/2018
Barium	EPA 6010	Metals	NELAP	10/3/2018
Beryllium	EPA 6010	Metals	NELAP	10/3/2018
Boron	EPA 6010	Metals	NELAP	10/3/2018
Cadmium	EPA 6010	Metals	NELAP	10/3/2018
Calcium	EPA 6010	Metals	NELAP	10/3/2018
Chromium	EPA 6010	Metals	NELAP	10/3/2018
Cobalt	EPA 6010	Metals	NELAP	10/3/2018
Copper	EPA 6010	Metals	NELAP	10/3/2018
Iron	EPA 6010	Metals	NELAP	10/3/2018
Lead	EPA 6010	Metals	NELAP	10/3/2018
Magnesium	EPA 6010	Metals	NELAP	10/3/2018
Manganese	EPA 6010	Metals	NELAP	10/3/2018
Molybdenum	EPA 6010	Metals	NELAP	10/3/2018
Nickel	EPA 6010	Metals	NELAP	10/3/2018
Paint Filter Liquids Test	EPA 9095	General Chemistry	NELAP	10/3/2018
Phosphorus, total	EPA 6010	Metals	NELAP	10/3/2018
Potassium	EPA 6010	Metals	NELAP	10/3/2018
Selenium	EPA 6010	Metals	NELAP	10/3/2018
Silver	EPA 6010	Metals	NELAP	10/3/2018
Sodium	EPA 6010	Metals	NELAP	10/3/2018
Strontium	EPA 6010	Metals	NELAP	10/3/2018
Thallium	EPA 6010	Metals	NELAP	10/3/2018
Titanium	EPA 6010	Metals	NELAP	10/3/2018
Toxicity Characteristic Leaching Procedure	EPA 1311	General Chemistry	NELAP	10/3/2018
Vanadium	EPA 6010	Metals	NELAP	10/3/2018
Zinc	EPA 6010	Metals	NELAP	10/3/2018