

State of Rhode Island DEPARTMENT OF HEALTH

Certifies

LAI00179

ESS LABORATORY
185 FRANCES AVENUE
CRANSTON RI 02910

Laboratory Director: LAUREL STODDARD

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

Chemistry - Non-potable Water Inorganic Chemistry -

This certification, pursuant to Rhode Island General Laws 23-16.2 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 latest dated Appendix which lists the analytes and methods for which certification has been granted. Contact the Laboratory Certification Officer to verify the current certification status of this laboratory.

Expires: 12/30/2024

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



ESS Laboratory 185 Frances Avenue Cranston, RI 02910 401-461-7181

APPENDIX TO ANALYTICAL LABORATORY CERTIFICATE No. LAI00179

Expiration date: December 31, 2024 Date Issued: January 24, 2024

Potable Water - Organic Chemistry	
Benzene	EPA Method 524.2
1,2-Dichlorobenzene	EPA Method 524.2
1,4-Dichlorobenzene	EPA Method 524.2
1,1-Dichloroethene	EPA Method 524.2
1,2-Dichloroethane	EPA Method 524.2
1,2-Dichloroethene (cis)	EPA Method 524.2
1,2-Dichloroethene (trans)	EPA Method 524.2
1,2-Dichloropropane	EPA Method 524.2
Carbon Tetrachloride	EPA Method 524.2
Chlorobenzene	EPA Method 524.2
Ethylbenzene	EPA Method 524.2
Methylene Chloride	EPA Method 524.2
Styrene	EPA Method 524.2
Tetrachloroethene	EPA Method 524.2
Toluene	EPA Method 524.2
1,2,4-Trichlorobenzene	EPA Method 524.2
1,1,1-Trichloroethane	EPA Method 524.2
1,1,2-Trichloroethane	EPA Method 524.2
Trichloroethene	EPA Method 524.2
Vinyl Chloride	EPA Method 524.2
Xylenes (total)	EPA Method 524.2
m+p Xylene	EPA Method 524.2
o-Xylene	EPA Method 524.2
T-amylmethylether(TAME)	EPA Method 524.2
tert-Butyl alcohol	EPA Method 524.2
Ethyl-t-butylether (ETBE)	EPA Method 524.2
MTBE	EPA Method 524.2

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EPA Method 524.2

Bromobenzene



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APPENDIX TO ANALYTICAL LABORATORY CERTIFICATE No. LAI00179

Expiration date: December 31, 2024	Date Issued: January 24, 2024
Bromochloromethane	EPA Method 524.2
Bromomethane	EPA Method 524.2
Chloroethane	EPA Method 524.2
Chloromethane	EPA Method 524.2
2-Chlorotoluene	EPA Method 524.2
4-Chlorotoluene	EPA Method 524.2
Dibromomethane	EPA Method 524.2
1,3-Dichlorobenzene	EPA Method 524.2
Dichlorodifluoromethane	EPA Method 524.2
1,1-Dichloroethane	EPA Method 524.2
1,3-Dichloropropane	EPA Method 524.2
2,2-Dichloropropane	EPA Method 524.2
1,1-Dichloropropene	EPA Method 524.2
cis-1,3-Dichloropropene	EPA Method 524.2
trans-1,3-Dichloropropene	EPA Method 524.2
Hexachlorobutadiene	EPA Method 524.2
lsopropylbenzene	EPA Method 524.2
n-Butylbenzene	EPA Method 524.2
n-Propylbenzene	EPA Method 524.2
p-Isopropyltoluene	EPA Method 524.2
sec-Butylbenzene	EPA Method 524.2
tert-Butylbenzene	EPA Method 524.2
1,2,3-Trichlorobenzene	EPA Method 524.2
1,1,1,2-Tetrachloroethane	EPA Method 524.2
Naphthalene	EPA Method 524.2
1,1,2,2-Tetrachloroethane	EPA Method 524.2
Trichlorofluoromethane (Freon 11)	EPA Method 524.2
Trichlorotrifluoroethane (Freon 113)	EPA Method 524.2
Di-isopropylether (DIPE)	EPA Method 524.2
1,2,3-Trichloropropane(TCP)	EPA Method 524.2

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Expiration date: December 31, 2024	Date Issued: January 24, 2024
1,2,3-Trichloropropane	EPA Method 504.1
1,2,4-Trimethylbenzene	EPA Method 524.2
1,3,5-Trimethylbenzene	EPA Method 524.2
Bromoform	EPA Method 524.2
Bromodichloromethane	EPA Method 524.2
Chloroform	EPA Method 524.2
Dibromochloromethane	EPA Method 524.2
TTHM'S	EPA Method 524.2
EDB (Ethylene dibromide)	EPA Method 504.1
DBCP (Dibromochloropropane)	EPA Method 504.1
Bromochloroacetic Acid	EPA Method 552.2
Dibromoacetic Acid	EPA Method 552.2
Dichloroacetic Acid	EPA Method 552.2
Monobromoacetic Acid	EPA Method 552.2
Monochloroacetic Acid	EPA Method 552.2
Trichloroacetic Acid	EPA Method 552.2
Total Haloacetic Acids	EPA Method 552.2
11-chloroeicosafluoro-3-oxaundecane-1- sulfonic acid (11Cl-PF3OUdS)	EPA Method 537.1
9-chlorohexadecafluoro-3-oxanonane-1- sulfonic acid (9CI-PF3ONS)	EPA Method 537.1
4,8-dioxa-3H-perfluorononanoic acid (DONA)	EPA Method 537.1
Hexafluoropropylene oxide dimer acid (HFPO-DA)	EPA Method 537.1
N-ethyl perfluorooctanesulfonamidoacetic acid (NEfFOSAA)	EPA Method 537.1
N-methyl perfluoroocatacesulfanamidoacetic acid	EPA Method 537.1

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(NMeFOSAA)

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APPENDIX TO ANALYTICAL LABORATORY CERTIFICATE No. LAI00179

Expiration date: December 31, 2024 Perfluorobutanesulfonic acid (PFBS)	Date Issued: January 24, 2024 EPA Method 537.1
Perfluorodecanoic acid (PFDA)	EPA Method 537.1
Perfluorododecanoic acid (PFDoA)	EPA Method 537.1
Perfluoroheptanoic acid (PFHpA)	EPA Method 537.1
Perfluorohexanesulfonic acid (PFHxS)	EPA Method 537.1
Perflorohexanoic acid (PFHxA)	EPA Method 537.1
Perfluorononanoic acid (PFNA)	EPA Method 537.1
Perfluorooctanesulfonic acid (PFOS)	EPA Method 537.1
Perfluorooctoanoic acid (PFOA)	EPA Method 537.1
Perfluorotetradecanoic acid (PFTDA)	EPA Method 537.1

Potable Water - Inorganic Chemistry

Perfluorotridecanoic acid (PFTrDA)

Perfluoroundecanoic acid (PFUnDA)

Alkalinity	SM2320B
Aluminum	EPA Method 200.8
Aluminum	EPA Method 200.7
Antimony	EPA Method 200.8
Antimony	EPA Method 200.5
Antimony	EPA Method 200.9
Arsenic	EPA Method 200.8
Arsenic	EPA Method 200.5
Arsenic	EPA Method 200.9
Barium	EPA Method 200.8
Barium	EPA Method 200.7
Berylium	EPA Method 200.8
Berylium	EPA Method 200.7

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EPA Method 537.1

EPA Method 537.1



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Expiration date: December 31, 2024	Date Issued: January 24, 2024
Boron	EPA Method 200.7
Cadmium	EPA Method 200.8
Cadmium	EPA Method 200.7
Calcium	EPA Method 200.8
Calcium	EPA Method 200.7
Chloride	EPA Method 300.0
Chromium	EPA Method 200.8
Chromium	EPA Method 200.7
Conductivity	SM 2510B
Conductivity	EPA Method 120.1
Copper	EPA Method 200.8
Copper	EPA Method 200.7
Cyanide	SM 4500CN-E
Fluoride	EPA Method 300.0
Calcium Hardness	EPA Method 200.7
Hardness total as CaCO	EPA Method 200.7
Hardness	SM 2340B
Iron	EPA Method 200.8
Iron	EPA Method 200.7
Lead	EPA Method 200.9
Lead	EPA Method 200.5
Lead	EPA Method 200.8
Magnesium	EPA Method 200.7
Magnesium	EPA Method 200.8
Manganese	EPA Method 200.8
Manganese	EPA Method 200.7
Mercury	EPA Method 245.1
Molybdenum	EPA Method 200.7

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EPA Method 200.8 EPA Method 200.8

EPA Method 200.7

Molybdenum

Nickel

Nickel



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Nitrate EPA Method 353.2
Nitrate + Nitrite EPA Method 353.2
Nitrite EPA Method 353.2
Orthophosphate EPA Method 365.1

pH SM4500 H+ B
pH EPA Method 150.1
Potassium EPA Method 200.8
Potassium EPA Method 200.7
Selenium EPA Method 200.8
Selenium EPA Method 200.8

 Selenium
 EPA Method 200.5

 Silver
 EPA Method 200.8

 Silver
 EPA Method 200.7

 Sodium
 EPA Method 200.8

 Sodium
 EPA Method 200.7

 Sulfate
 EPA Method 300.0

 Sulfate
 SM 4500SO4-E

Thallium EPA Method 200.8
Total Dissolved Solids SM 2540C

Total Organic Carbon SM 5310B
Turbidity EPA Method 180.1

VanadiumEPA Method 200.8VanadiumEPA Method 200.7ZincEPA Method 200.8ZincEPA Method 200.7

Total Residual Chlorine SM 4500Cl-G
Free Residual Chlorine SM 4500Cl-G
Total Residual Chlorine SM 4500Cl-D



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Non-Potable Water - Organic Chemistry

Mon-Potable Water - Organic Chemistry	
Aldrin	EPA Method 608.3
alpha-BHC	EPA Method 608.3
beta-BHC	EPA Method 608.3
gamma-BHC (Lindane)	EPA Method 608.3
delta-BHC	EPA Method 608.3
Chlordane (technical)	EPA Method 608.3
gamma-chlordane	EPA Method 608.3
alpha-chlordane	EPA Method 608.3
4,4'-DDT	EPA Method 608.3
4.4'-DDE	EPA Method 608.3
4,4'-DDD	EPA Method 608.3
Dieldrin	EPA Method 608.3
Endosulfan I	EPA Method 608.3
Endosulfan il	EPA Method 608.3
Endosulfan Sulfate	EPA Method 608.3
Endrin	EPA Method 608.3
Endrin Aldehyde	EPA Method 608.3
Heptachlor	EPA Method 608.3
Heptachlor Epoxide	EPA Method 608.3
Methoxychlor	EPA Method 608.3
PCB-1016	EPA Method 608.3
PCB-1221	EPA Method 608.3
PCB-1232	EPA Method 608.3
PCB-1242	EPA Method 608.3
PCB-1248	EPA Method 608.3
PCB-1254	EPA Method 608.3
PCB-1260	EPA Method 608.3
PCB-1016 in Oil	EPA Method 608.3

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Expiration date: December 31, 2024	Date Issued: January 24, 2024
PCB-1221 in Oil	EPA Method 608.3
PCB-1232 in Oil	EPA Method 608.3
PCB-1242 in Oil	EPA Method 608.3
PCB-1248 in Oil	EPA Method 608.3
PCB-1254 in Oil	EPA Method 608.3
PCB-1260 in Oil	EPA Method 608.3
Toxaphene	EPA Method 608.3
Acetone	EPA Method 624.1
Acrolein	EPA Method 624.1
Acrylonitrile	EPA Method 624.1
Benzene	EPA Method 624.1
Bromobenzene	EPA Method 624.1
Bromochloromethane	EPA Method 624.1
n-Butylbenzene	EPA Method 624.1
sec-Butylbenzene	EPA Method 624.1
tert-Butylbenzene	EPA Method 624.1
Hexachloroethane	EPA Method 624.1
Hexachlorobutadiene	EPA Method 624.1
Bromomethane(Methyl bromide)	EPA Method 624.1
Bromoform	EPA Method 624.1
2-Butanone	EPA Method 624.1
Carbon Disulfide	EPA Method 624.1
Carbon Tetrachloride	EPA Method 624.1
Chlorobenzene	EPA Method 624.1
Chlorodibromomethane	EPA Method 624.1
Chloroethane	EPA Method 624.1
Chloromethane(Methyl chloride)	EPA Method 624.1
2-Chloroethylvinyl Ether	EPA Method 624.1
Chloroform	EPA Method 624.1
1,2-Dibromo-3-chloropropane (DBCP)	EPA Method 624.1

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1,2-Dibromoethane (EDB, Ethylene	EPA Method 624.1
Dibromomethane	EPA Method 624.1
Dichlorobromomethane	EPA Method 624.1
Dichlorodifluoromethane	EPA Method 624.1
1,1-Dichloroethane	EPA Method 624.1
1,2-Dichloroethane	EPA Method 624.1
1,1-Dichloroethene	EPA Method 624.1
1,2-Dichloropropane	EPA Method 624.1
1,3-Dichloropropane	EPA Method 624.1
2,2-Dichloropropane	EPA Method 624.1
1,1-Dichloropropene	EPA Method 624.1
cis-1,3-Dichloropropene	EPA Method 624.1
trans-1,3-Dichloropropene	EPA Method 624.1
Ethylbenzene	EPA Method 624.1
2-Hexanone	EPA Method 624.1
2-Chlorotoluene	EPA Method 624.1
4-Chlorotoluene	EPA Method 624.1
Isopropylbenzene	EPA Method 624.1
4-Isopropyltoluene	EPA Method 624.1
4-Methyl-2-pentanone (MIBK)	EPA Method 624.1
Methylene Chloride(Dichloromethane)	EPA Method 624.1
n-Propylbenzene	EPA Method 624.1
Naphthalene	EPA Method 624.1
Styrene	EPA Method 624.1
1,1,1,2-Tetrachloroethane	EPA Method 624.1
1,1,2,2-Tetrachloroethane	EPA Method 624.1
Tetrachloroethene	EPA Method 624.1
Toluene	EPA Method 624.1
cis-1,2-Dichloroethene	EPA Method 624.1
trans-1,2-Dichloroethene	EPA Method 624.1

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1,1,1-Trichloroethane

EPA Method 624.1

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Expiration date: December 31, 2024	Date Issued: January 24, 2024
1,1,2-Trichloroethane	EPA Method 624.1
Trichloroethene	EPA Method 624.1
Trichlorofluoromethane	EPA Method 624.1
1,2,3-Trichloropropane	EPA Method 624.1
1,2,3-Trichlorobenzene	EPA Method 624.1
1,2,4-Trimethylbenzene	EPA Method 624.1
1,3,5-Trimethylbenzene	EPA Method 624.1
Vinyl acetate	EPA Method 624.1
Vinyl Chloride	EPA Method 624.1
Xylenes (total)	EPA Method 624.1
m+p-Xylene	EPA Method 624.1
o-Xylene	EPA Method 624.1
1,2-Dichlorobenzene	EPA Method 624.1
1,3-Dichlorobenzene	EPA Method 624.1
1,4-Dichlorobenzene	EPA Method 624.1
1,2,4-Trichlorobenzene	EPA Method 624.1
Aniline	EPA Method 625.1
Acenaphthene	EPA Method 625.1
Acenaphthylene	EPA Method 625.1
Anthracene	EPA Method 625.1
Benzoic acid	EPA Method 625.1
Benzidine	EPA Method 625.1
Benzo(a)anthracene	EPA Method 625.1
Benzo(a)pyrene	EPA Method 625.1
Benzo(b)fluoranthene	EPA Method 625.1
Benzo(k)fluoranthene	EPA Method 625.1
Benzo(g,h,i)perylene	EPA Method 625.1
Benzyl alcohol	EPA Method 625.1
Bis(2-Chloroethoxy)Methane	EPA Method 625.1
Bis(2-chloroethyl)Ether	EPA Method 625.1

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Bis(2-ethylhexyl) Phthalate(DEHP)

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EPA Method 625.1



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Expiration date: December 31, 2024	Date Issued: January 24, 2024
4-Bromophenyl Phenyl Ether	EPA Method 625.1
Butylbenzyl Phthalate	EPA Method 625.1
Carbazole	EPA Method 625.1
2-Chloronaphthalene	EPA Method 625.1
4-Chloroaniline	EPA Method 625.1
4-Chlorophenyl Phenyl Ether	EPA Method 625.1
Chrysene	EPA Method 625.1
Dibenzo[a,h]anthracene	EPA Method 625.1
Dibenzofuran	EPA Method 625.1
1,2-Dichlorobenzene	EPA Method 625.1
1,3-Dichlorobenzene	EPA Method 625.1
1,4-Dichlorobenzene	EPA Method 625.1
3,3'-Dichlorobenzidine	EPA Method 625.1
Diethyl Phthalate	EPA Method 625.1
Dimethyl Phthalate	EPA Method 625.1
Di-n-butyl Phthalate	EPA Method 625.1
2,4-Dinitrotoluene	EPA Method 625.1
2,6-Dinitrotoluene	EPA Method 625.1
Di-n-octyl Phthalate	EPA Method 625.1
Fluoranthene	EPA Method 625.1
Fluorene	EPA Method 625.1
Hexachlorobenzene	EPA Method 625.1
Hexachlorobutadiene	EPA Method 625.1
Hexachlorocyclopentadiene	EPA Method 625.1
Hexachloroethane	EPA Method 625.1
Indeno[1,2,3-cd]pyrene	EPA Method 625.1
Isophorone	EPA Method 625.1
2-Methylnaphthalene	EPA Method 625.1
2-Methylphenol(o-Cresol)	EPA Method 625.1

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EPA Method 625.1

4-Methylphenol (p-Cresol)



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Expiration date: December 31, 2024	Date Issued: January 24, 2024
1-Methylnaphthalene	EPA Method 625.1
3+4 Methylphenol(m+p-Cresol)	EPA Method 625.1
Naphthalene	EPA Method 625.1
Nitrobenzene	EPA Method 625.1
2-Nitroaniline	EPA Method 625.1
3-Nitroaniline	EPA Method 625.1
4-Nitroaniline	EPA Method 625.1
N-Nitrosodimethylamine	EPA Method 625.1
N-Nitrosodi-n-propylamine	EPA Method 625.1
N-Nitrosodiphenylamine	EPA Method 625.1
1-Chloropropane	EPA Method 625.1
Phenanthrene	EPA Method 625.1
Pyridine	EPA Method 625.1
Pyrene	EPA Method 625.1
1,2,4-Trichlorobenzene	EPA Method 625.1
2-Chlorophenol	EPA Method 625.1
2,4-Dichlorophenol	EPA Method 625.1
2,4-Dimethylphenol	EPA Method 625.1
2-Methyl-4,6-dinitrophenol	EPA Method 625.1
2,4-Dinitrophenol	EPA Method 625.1
2-Nitrophenol	EPA Method 625.1
4-Nitrophenol	EPA Method 625.1
4-Chlorophenol-3-methylphenol	EPA Method 625.1
Pentachlorophenol	EPA Method 625.1
Phenol	EPA Method 625.1
1,2,4,5-Tetrachlorobenzene	EPA Method 625.1
2,3,4,6-Tetrachlorophenol	EPA Method 625.1
2,4,5-Trichlorophenol	EPA Method 625.1
2,4,6-Trichlorophenol	EPA Method 625.1

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Non-Potable Water - Inorganic Chemistry

Non-Potable Water - Inorganic Chemistry	
Alkalinity	SM2320B
Aluminum	EPA Method 200.8
Aluminum	EPA Method 200.7
Ammonia	EPA Method 350.1
Ammonia	SM4500NH3-D
Antimony	EPA Method 200.8
Antimony	EPA Method 200.7
Antimony	SM3113B
Arsenic	SM3113B
Arsenic	EPA Method 200.8
Arsenic	EPA Method 200.7
Barium	EPA Method 200.8
Barium	EPA Method 200.7
Beryllium	EPA Method 200.8
Beryllium	EPA Method 200.7
Boron	EPA Method 200.7
Bromide	EPA Method 300.0
Cadmium	EPA Method 200.8
Cadmium	EPA Method 200.7
Calcium	EPA Method 200.7
Calcium	EPA Method 200.8
Chloride	SM 4500-CI- E
Chloride	EPA Method 300.0
Chloride	EPA Method 9250
Chromium VI	SM 3500-Cr-B
Chromium (total)	EPA Method 200.8
Chromium (total)	EPA Method 200.7
Cobalt	EPA Method 200.8

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Cobalt

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EPA Method 200.7



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Copper EPA Method 200.8 Copper EPA Method 200.7

Fluoride EPA 300.0 Total Hardness (as CaCO3) EPA 200.7

Total Hardness (as CaCO3) EPA Method SM2340-B Iron EPA Method 200.8

Iron EPA Method 200.7 Lead SM3113B

Lead EPA Method 200.8
Lead EPA Method 200.7
Magnesium EPA Method 200.7

MagnesiumEPA Method 200.7MagnesiumEPA Method 200.8ManganeseEPA Method 200.8ManganeseEPA Method 200.7

MBAS SM5540C

Mercury EPA Method 245.1
Molybdenum EPA Method 200.7
Molybdenum EPA Method 200.8
Nickel EPA Method 200.8

Nickel EPA Method 200.7

Nitrate as N EPA Method 353.2

Nitrate-Nitrite (as N) EPA Method 353.2

Nitrite SM4500NO2-B
Nitrite as N EPA Method 353.2
Orthophosphate EPA Methods 365.1
Orthophosphate EPA Methods 365.3

Tin EPA Method 200.7
Titanium EPA Method 200.7
Total Pheerberger

Total Phosphorous EPA Method 365.1 Total Phosphorous EPA Method 365.3

Potassium EPA Method 200.7

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Potassium

Selenium

Selenium

Selenium

Silver

Silica Sodium

Sodium

Strontium

Sulfate

Sulfate

Sulfide Thallium

Thallium

Vanadium Zinc

Zinc

Total Cyanide

Kjeldahl Nitrogen Kjeldahl Nitrogen Total Nitrogen

Oil and Grease

рΗ

Phenols

5-Day BOD

cBOD

COD

COD

Specific Conductance

Specific Conductance

Date Issued: January 24, 2024

EPA Method 200.8

EPA Method 200.8

EPA Method 200.7

SM3113B

EPA Method 200.7

SM 4500-SiO2 D

EPA Method 200.7

EPA Method 200.8

EPA Method 200.7

EPA Method 300.0

SM4500 SO4-E

SM4500-S2-D

EPA Method 200.8

EPA Method 200.7

EPA Method 200.7

EPA Method 200.8

EPA Method 200.7

SM4500-CN⁻ C, E

EPA Method 351.2

SM4500-NH3 D

SM4500-Norg D

SM1664A

SM4500-H+ B

EPA Method 420.1

SM5210 B

SM5210B

SM 5220 D(HACH 8000)

EPA Method 410.4

EPA Method 120.1

SM2510B



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APPENDIX TO ANALYTICAL LABORATORY CERTIFICATE No. LAI00179

Expiration date: December 31, 2024

Total Residual Chlorine

Total Residual Chlorine

Volatile residue

Volatile residue

Settleable solids

Total Suspended Solids

Total Solids

Total Dissolved Solids

Total Organic Carbon

Turbidity

Date Issued: January 24, 2024

SM4500-CI D

SM4500-CI G

SM2540-E

EPA Method 160.4

SM2540-F

SM 2540-D

SM2540B

SM2540C

SM5310B 20TH

EPA Method 180.1