

The Commonwealth of Massachusetts



Department of Environmental Protection

Division of Environmental Analysis

Senator William X. Wall Experiment Station

certifies

M-MA153

MWRA CENTRAL LABORATORY
DEER IS TREATMENT PLANT
190 TAFTS AVE
WINTHROP, MA 02152-0000

Laboratory Director: Michael F. DELANEY, PH.D.

for the analysis of POTABLE WATER (RADIOCHEMISTRY)
POTABLE WATER (MICROBIOLOGY)
NON POTABLE WATER (CHEMISTRY)
POTABLE WATER (CHEMISTRY)
NON POTABLE WATER
(MICROBIOLOGY)

pursuant to 310 CMR 42.00

This certificate supersedes all previous Massachusetts certificates issued to this laboratory. The laboratory is regulated by and shall be responsible for being in compliance with Massachusetts regulations at 310 CMR 42.00.

This certificate is valid only when accompanied by the latest dated Certified Parameter List as issued by the Massachusetts D.E.P. Contact the Division of Environmental Analysis to verify the current certification status of the laboratory.

Certification is no guarantee of the validity of the data. This certification is subject to unannounced laboratory inspections.

A handwritten signature in cursive script, reading "Oscar C. Sarcoba".

Director, Division of Environmental Analysis

Issued: 01 JUL 2015

Expires: 30 JUN 2016

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: **01 JUL 2015**

M-MA153

**MWRA CENTRAL LABORATORY
WINTHROP MA**

NON POTABLE WATER (CHEMISTRY)

**Effective
Date**

01 JUL 2015

**Expiration 30 JUN 2016
Date**

<u>Analytes</u>	<u>Methods</u>
ALUMINUM	EPA 200.7
ALUMINUM	EPA 200.8
ANTIMONY	EPA 200.7
ANTIMONY	EPA 200.9
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.7
ARSENIC	EPA 200.9
ARSENIC	EPA 200.8
BERYLLIUM	EPA 200.7
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.7
CADMIUM	EPA 200.9
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.7
CHROMIUM	EPA 200.9
CHROMIUM	EPA 200.8
COBALT	EPA 200.7
COBALT	EPA 200.8
COPPER	EPA 200.7
COPPER	EPA 200.9
COPPER	EPA 200.8
IRON	EPA 200.7
LEAD	EPA 200.7
LEAD	EPA 200.9
LEAD	EPA 200.8
MANGANESE	EPA 200.7
MANGANESE	EPA 200.8
MERCURY	EPA 245.1
MERCURY	EPA 245.7
MOLYBDENUM	EPA 200.7
MOLYBDENUM	SM 3113 B
MOLYBDENUM	EPA 200.8
NICKEL	EPA 200.7
NICKEL	EPA 200.9
NICKEL	EPA 200.8
SELENIUM	EPA 200.7
SELENIUM	EPA 200.9
SELENIUM	EPA 200.8
SILVER	EPA 200.9
SILVER	EPA 200.7
SILVER	EPA 200.8
THALLIUM	EPA 200.7
THALLIUM	EPA 200.9

June 16, 2015

*= Provisional Certification

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2015

M-MA153 MWRA CENTRAL LABORATORY
WINTHROP MA

NON POTABLE WATER (CHEMISTRY)	Effective Date	01 JUL 2015	Expiration Date	30 JUN 2016
<u>Analytes</u>			<u>Methods</u>	
THALLIUM			EPA 200.8	
TITANIUM			EPA 200.7	
VANADIUM			EPA 200.7	
VANADIUM			EPA 200.8	
ZINC			EPA 200.7	
ZINC			EPA 200.8	
PH			SM 4500-H-B	
SPECIFIC CONDUCTIVITY			SM 2510B	
TOTAL DISSOLVED SOLIDS			SM 2540C	
HARDNESS (CACO3), TOTAL			SM 2340B	
CALCIUM			EPA 200.7	
MAGNESIUM			EPA 200.7	
SODIUM			EPA 200.7	
POTASSIUM			EPA 200.7	
ALKALINITY, TOTAL			SM 2320B	
CHLORIDE			EPA 300.0	
SULFATE			EPA 300.0	
AMMONIA-N			EPA 350.1	
NITRATE-N			EPA 353.2	
KJELDAHL-N			EPA 351.2	
ORTHOPHOSPHATE			EPA 365.1	
PHOSPHORUS, TOTAL			EPA 365.1	
CHEMICAL OXYGEN DEMAND			HACH METHOD 8000	
BIOCHEMICAL OXYGEN DEMAND			SM 5210B	
TOTAL ORGANIC CARBON			SM 5310B	
CYANIDE, TOTAL			ASTM D7511	
CYANIDE, TOTAL			EPA 335.4	
CYANIDE, TOTAL			LACHAT 10-204-00-1-X	
NON-FILTERABLE RESIDUE			SM 2540D	
CHLORINE, TOTAL RESIDUAL			SM 4500-CL-G	
OIL AND GREASE			EPA 1664	
VOLATILE HALOCARBONS			EPA 624	
VOLATILE AROMATICS			EPA 624	
CHLORDANE			EPA 608	
ALDRIN			EPA 608	
ALPHA-BHC			EPA 608	
BETA-BHC			EPA 608	
GAMMA-BHC			EPA 608	
DELTA-BHC			EPA 608	
DIELDRIN			EPA 608	
DDD			EPA 608	
DDE			EPA 608	
DDT			EPA 608	

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: **01 JUL 2015**

**M-MA153 MWRA CENTRAL LABORATORY
WINTHROP MA**

NON POTABLE WATER (CHEMISTRY) Effective Date 01 JUL 2015 Expiration Date 30 JUN 2016

Analytes

Methods

ENDOSULFAN I	EPA 608
ENDOSULFAN II	EPA 608
ENDOSULFAN SULFATE	EPA 608
ENDRIN	EPA 608
ENDRIN ALDEHYDE	EPA 608
HEPTACHLOR	EPA 608
HEPTACHLOR EPOXIDE	EPA 608
SVOC-ACID EXTRACTABLES	EPA 625
SVOC-BASE/NEUTRAL EXTRACTABLES	EPA 625
POLYCHLORINATED BIPHENYLS (WATEF	EPA 608

POTABLE WATER (CHEMISTRY) Effective Date 01 JUL 2015 Expiration Date 30 JUN 2016

Analytes

Methods

ANTIMONY	EPA 200.8
ANTIMONY	EPA 200.9
ARSENIC	EPA 200.8
ARSENIC	EPA 200.9
BARIUM	EPA 200.7
BARIUM	EPA 200.8
BERYLLIUM	EPA 200.7
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.7
CADMIUM	EPA 200.8
CADMIUM	EPA 200.9
CHROMIUM	EPA 200.7
CHROMIUM	EPA 200.8
CHROMIUM	EPA 200.9
COPPER	EPA 200.7
COPPER	EPA 200.8
COPPER	EPA 200.9
LEAD	EPA 200.8
LEAD	EPA 200.9
MERCURY	EPA 245.1
MERCURY	EPA 200.8
NICKEL	EPA 200.7
NICKEL	EPA 200.8
NICKEL	EPA 200.9
SELENIUM	EPA 200.8
SELENIUM	EPA 200.9
SILVER	EPA 200.8
THALLIUM	EPA 200.8
THALLIUM	EPA 200.9

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2015

M-MA153

MWRA CENTRAL LABORATORY
WINTHROP MA

POTABLE WATER (CHEMISTRY)

Effective
Date

01 JUL 2015

Expiration
Date 30 JUN 2016

Analytes

Methods

NITRATE-N

EPA 353.2

NITRITE-N

EPA 353.2

FLUORIDE

SM 4500-F-C

SODIUM

EPA 200.7

SULFATE

EPA 300.0

CYANIDE, AVAILABLE

OIA-1677

CYANIDE, TOTAL

EPA 335.4

CYANIDE, TOTAL

LACHAT 10-204-00-1-X

TURBIDITY

SM 2130B

CHLORINE, RESIDUAL FREE

SM 4500-CL-G

CALCIUM

EPA 200.7

ALKALINITY, TOTAL

SM 2320B

TOTAL DISSOLVED SOLIDS

SM 2540C

PH

SM 4500-H-B

TRIHALOMETHANES

EPA 524.2

VOLATILE ORGANIC COMPOUNDS

EPA 524.2

HALOACETIC ACIDS

EPA 552.2

BROMATE

EPA 300.1

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2015

M-MA153 MWRA CENTRAL LABORATORY
WINTHROP MA

NON POTABLE WATER (MICROBIOLOGY) Effective Date 01 JUL 2015 Expiration Date 30 JUN 2016

Analytes

E. COLI	AMBIENT WATER
ENTEROCOCCI	AMBIENT WATER
FECAL COLIFORM	WASTEWATER
E. COLI	WASTEWATER
ENTEROCOCCI	WASTEWATER

Methods

SM 9223B-COLILERT
ENTEROLERT
MF-SM9222D
SM 9223B-COLILERT
ENTEROLERT

POTABLE WATER (MICROBIOLOGY) Effective Date 01 JUL 2015 Expiration Date 30 JUN 2016

Analytes

HETEROTROPHIC PLATE COUNT	
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)
FECAL COLIFORM	SOURCE WATER (ENUMERATION)
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)
E. COLI	SOURCE WATER (ENUMERATION)
ENTEROCOCCI	SOURCE WATER (P/A)

Methods

SM9215B
ENZ. SUB. SM9223
MF-SM9222D
ENZ. SUB. SM9223
SM 9223B-COLILERT
ENTEROLERT

COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Certified Parameter List as of: 01 JUL 2015

M-MA153 MWRA CENTRAL LABORATORY
WINTHROP MA

POTABLE WATER (RADIOCHEMISTRY) Effective Date 01 JUL 2015 Expiration Date 30 JUN 2016

Analytes

URANIUM

Methods

EPA 200.8