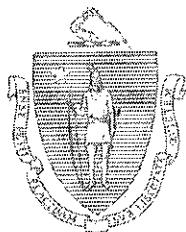


The Commonwealth of Massachusetts



*Department of Environmental Protection
Division of Environmental Laboratory Sciences
Senator William X. Wall Experiment Station*

certifies

M-MA022

ANALYTICAL BALANCE, DIV OF THIELSH ENG
422 WEST GROVE ST
MIDDLEBOROUGH, MA 02346-0000

Laboratory Director: LAUREL STODDARD

for the analysis of POTABLE WATER (CHEMISTRY)
NON POTABLE WATER (CHEMISTRY)
POTABLE WATER (MICROBIOLOGY)
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 Laboratory Sciences 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. Jacinto".

Director, Division of Environmental Laboratory Sciences

Issued: 01 JUL 2021

Expires: 30 JUN 2022

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: 01 JUL 2021

M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA

NON POTABLE WATER (CHEMISTRY) Effective Date 19 OCT 2020 Expiration Date 30 JUN 2022

Analytes

Methods

ALUMINUM	EPA 200.8
ANTIMONY	EPA 200.8
ARSENIC	EPA 200.8
BERYLLIUM	EPA 200.8
CADMIUM	EPA 200.8
CHROMIUM	EPA 200.8
COBALT	EPA 200.8
COPPER	SM 3111B
COPPER	EPA 200.8
IRON	SM 3111B
LEAD	EPA 200.8
MANGANESE	SM 3111B
MANGANESE	EPA 200.8
MOLYBDENUM	EPA 200.8
NICKEL	EPA 200.8
SELENIUM	EPA 200.8
SILVER	SM 3111B
SILVER	EPA 200.8
THALLIUM	EPA 200.8
VANADIUM	EPA 200.8
ZINC	SM 3111B
ZINC	EPA 200.8
PH	SM 4500-H-B
SPECIFIC CONDUCTIVITY	SM 2510B
TOTAL DISSOLVED SOLIDS	SM 2540C
HARDNESS (CaCO3), TOTAL	SM 2340B
HARDNESS (CaCO3), TOTAL	SM 2340C
CALCIUM	SM 3111B
MAGNESIUM	SM 3111B
SODIUM	SM 3111B
POTASSIUM	SM 3111B
ALKALINITY, TOTAL	SM 2320B
ALKALINITY, TOTAL	EPA 310.2
CHLORIDE	SM 4500-CL-B
CHLORIDE	SM 4110B
SULFATE	SM 4110B
AMMONIA-N	EPA 350.1
NITRATE-N	SM 4110B
KJELDAHL-N	EPA 351.2
ORTHOPHOSPHATE	SM 4500-P-E
ORTHOPHOSPHATE	SM 4110B
PHOSPHORUS, TOTAL	SM 4500-P-B,E
CHEMICAL OXYGEN DEMAND	HACH METHOD 8000

**COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

Certified Parameter List as of: 01 JUL 2021

**M-MA022 ANALYTICAL BALANCE, DIV OF THIELSH ENG
MIDDLEBOROUGH MA**

**NON POTABLE WATER (MICROBIOLOGY) Effective 01 JUL 2015 Expiration 30 JUN 2022
Date Date**

Analytes

Methods

E. COLI	AMBIENT WATER	EPA 1603
E. COLI	AMBIENT WATER	EPA 1604
ENTEROCOCCI	AMBIENT WATER	EPA 1600
FECAL COLIFORM	WASTEWATER	MF-SM9222D
E. COLI	WASTEWATER	EPA 1603
ENTEROCOCCI	WASTEWATER	EPA 1600

**POTABLE WATER (MICROBIOLOGY) Effective 01 JUL 2015 Expiration 30 JUN 2022
Date Date**

Analytes

Methods

HETEROTROPHIC PLATE COUNT		SM9215B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	MF-SM9222B
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
TOTAL COLIFORM	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
FECAL COLIFORM	SOURCE WATER (ENUMERATION)	MF-SM9222D
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	EPA 1604
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	NA-MUG-SM9222G
E. COLI	WATER TREATMENT AND DISTRIBUTION (P/A)	ENZ. SUB. SM9223
TOTAL COLIFORM	SOURCE WATER (ENUMERATION)	EPA 1604
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1603
E. COLI	SOURCE WATER (ENUMERATION)	EPA 1604
ENTEROCOCCI	SOURCE WATER (P/A)	EPA 1600
ENTEROCOCCI	SOURCE WATER (P/A)	ENTEROLERT