

31A Willow Road, Ayer MA 01432

Website: <http://www.NashobaAnalytical.com>

Use this number with all correspondence

Client:

Boxford Board of Health

7A Spofford Rd

Boxford, MA 01921

ReportDate: 11/17/2016

Certificate of Analysis**Jones, Christel, 6 Gina Way, Boxford MA**

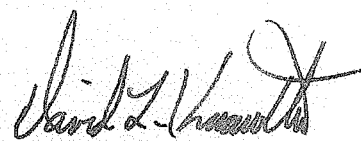
Parameter	Method	Result	MCL	MRL	Date of Analysis	Analyst
- Sample Tap						
<i>Sampled: 11/13/2016 9:40:00 PM by Client</i>						
Total Coliform Bacteria, /100ml	ENZ. SUB. SM9223	Absent	Absent	Absent	11/14/2016 2:40:00 PM	M-MA1118
Arsenic, Total, MG/L	SM 3113B	0.001	0.01	0.001	11/16/2016	M-MA1118
Calcium, MG/L	EPA 200.7	45.6	Not Spec	0.2	11/16/2016	M-MA1118
Copper, MG/L	EPA 200.7	0.038	1.3	0.003	11/16/2016	M-MA1118
Iron, MG/L	EPA 200.7	0.017	0.3	0.003	11/16/2016	M-MA1118
Lead, MG/L	SM 3113B	ND	0.015	0.001	11/15/2016	M-MA1118
Manganese, MG/L	EPA 200.7	0.005	0.05	0.002	11/16/2016	M-MA1118
Sodium, MG/L	EPA 200.7	16.8	See Note	0.2	11/16/2016	M-MA1118
Alkalinity, MG/L	SM 2320B	170	Not Spec	1	11/14/2016	M-MA1118
Chloride, MG/L	EPA 300.0	19.1	250	1	11/15/2016	M-MA1118
Conductivity, UMHOS/CM	SM 2510B	462	Not Spec	1	11/14/2016	M-MA1118
Hardness, Total, MG/L	SM 2340B	162	Not Spec	1	11/16/2016	M-MA1118
Nitrate as N, MG/L	EPA 300.0	2.1	10	0.05	11/15/2016	M-MA1118
pH, PH AT 25C	SM 4500-H-B	8.2	6.5 - 8.5	NA	11/14/2016	M-MA1118

MCL=Maximum Contaminant Level (EPA Limit), MRL = Minimum Reporting Level

Sodium Guidelines- Mass 20, EPA 250, # = Result Exceeds Limit or Guideline

ND = None Detected (<MRL), * = Background Bacteria Noted

Analysis performed according to 310CMR42.00

Massachusetts Certified
Laboratory #M-MA1118David L. Knowlton
Laboratory Director

Parameter Certifications:

The Massachusetts DEP offers certification for different parameters in both the Potable (Drinking Water) category and Non-Potable category.

This chart shows the parameters for which this lab holds DEP certification in each category.

A "C" indicates certification for that particular analyte, "NCA" indicates that no certification is available for that category.

"S" indicates analytes subcontracted to other certified laboratories and is indicated in the "Analyst" column on the report.

<u>Parameter</u>	<u>Potable</u>	<u>Non-Potable</u>	<u>Parameter</u>	<u>Potable</u>	<u>Non-Potable</u>
Total Coliform	C	C	pH	C	C
Fecal Coliform	C	C	Specific Conductivity	NCA	C
E.coli	C	C	Total Dissolved Solids	C	C
Enterococci	C	C	Hardness (Total)	NCA	C
Fecal strep	NCA	C	Calcium	C	C
Heterotrophic Plate Count	C	NCA	Fluoride	C	S
			Magnesium	NCA	C
Aluminum	NCA	C	Sodium	C	C
Antimony	S	C	Potassium	NCA	C
Arsenic	C	C	Alkalinity, Total	C	C
Barium	C	NCA	Chloride	NCA	C
Beryllium	C	S	Sulfate	C	C
Cadmium	S	C	Ammonia-N	NCA	C
Chromium	S	C	Nitrate-N	C	C
Copper	C	C	Nitrite-N	C	NCA
Iron	NCA	C	Orthophosphate	NCA	C
Lead	C	C	Phosphorus, Total	NCA	C
Manganese	NCA	C	BOD	NCA	C
Molybdenum	NCA	C	TSS	NCA	C
Nickel	C	C	Turbidity	C	NCA
Selenium	S	C	Chlorine	C	C
Silver	C	S			
Strontium	NCA	C			
Thallium	S	C			
Zinc	NCA	C			

Any parameters not on this list are subcontracted. All analyses for which this lab is certified by the DEP are conducted in accordance with DEP certification standards.

Total Coliform Bacteria - Indicator organism used to assess sanitary quality of water. Result must be 0 or Absent.

Alkalinity - Acid-neutralizing capability of water. EPA Max= NOT SPECIFIED

Ammonia - A gas that is an indication of organic waste. EPA Max= NOT SPECIFIED

Arsenic - Naturally occurring heavy metal found in some well waters. EPA Max= 0.01 mg/L

Calcium - Naturally occurring mineral which is the primary component of hardness. Used in some road salts. EPA Max= NO LIMIT

Chloride - A component of salt. High concentrations may taste salty and may cause corrosion of metals. EPA Max= 250 mg/L

Chlorine - A disinfectant that may affect taste and/or odor. EPA Max= NOT SPECIFIED

Color - Color is considered an aesthetic problem and can be used to confirm problems such as high iron and/or manganese. EPA Max= 15

Conductivity - The ability of water to carry an electrical current. Directly proportional to amount of total dissolved solids. EPA Max= NOT SPECIFIED

Copper - Present in most home plumbing systems. Blue/green stains in sinks and tubs is a prime indicator of copper corrosion, usually the result of low pH. EPA Max= 1.3 mg/L

Hardness - Soft 0-60 mg/L; Moderate 61-120 mg/L; Hard 121-180 mg/L; Very hard >181 mg/L. To convert mg/L to grains per gallon, divide by 17.1. EPA Max= NO LIMIT

Iron - Naturally occurring element in well waters. May cause brown stains, discolored water, and bad taste. EPA Max= 0.3 mg/L

Lead - Found in some plumbing fixtures, and older homes that may have used lead solder. EPA Max= 0.015mg/L

Magnesium - Naturally occurring mineral that contributes to total hardness. EPA Max= NO LIMIT

Manganese - Naturally occurring element in well waters. May cause stains, bad taste and odor. EPA Max= 0.05 mg/L

Nitrate - May originate from failed septic systems, agricultural run-off, organic decay, and excessive use of lawn fertilizers. EPA Max= 10 mg/L

Nitrite - An intermediate form of nitrogen that is part of the naturally occurring Nitrogen Cycle. EPA Max= 1.0 mg/L

Odor - The intensity of odor is reported as a threshold odor number, with zero indicating that no odor is present. EPA Max= 3

pH - Acid/Base determination. Neutral is 7.0; Acidic is <7.0, Basic is >7.0.

Potassium - An abundant element generally found in water. EPA Max= NOT SPECIFIED

Radon - Naturally occurring radioactive decay product of Radium 226. EPA does not regulate in water, state guidelines are Mass.10,000, NH-2000, ME-4000

Sediment - A visual determination of the presence or absence of sediment in water. POSITIVE/NEGATIVE

Sodium - Found in most waters; component of salt. High levels may indicate road salt intrusion. Massachusetts guideline is 20 mg/L, EPA limit is 250 mg/L. See note.

Sulfate - Widely distributed in nature and usually found in ground water.

Turbidity - The clarity or cloudiness of water.

MCL - Maximum Contaminant Level also considered the allowable limit. Results are compared to the MCL.

MRL - Minimum Reporting Level (the lowest we can report). **ND** (none detected) means less than the MRL.

Any results that exceed the MCL, if one applies, will be flagged with a # sign.

Note: The guideline of 20 mg/L for Sodium when exceeded does not require treatment of the water to reduce the levels to prevent adverse health effects on public health. Rather, the guideline represents a level of sodium in water that physicians and sodium sensitive individuals should be aware of in cases where sodium exposures are being carefully controlled.

For further information please visit these web sites:

<http://www.mass.gov/dep/water/drinking/privatew.htm> (information on private well water)

<http://www.mass.gov/eea/docs/dep/water/drinking/alpha/i-thru-z/sodguide.pdf> (information regarding sodium guideline)

<http://water.epa.gov/drink/index.cfm> (EPA office of Groundwater and Drinking Water)

Client:

Charles M. Rollins Co., Inc.

126 Depot Road

Boxford, MA 01921

ReportDate: 1/16/2017

Certificate of Analysis

6 Gina Way, Boxford MA

Parameter	Method	Result	MCL	MRL	Date of Analysis	Analyst
- Bathroom Sink						
<i>Sampled: 1/12/2017 1:30:00 PM by Client</i>						
Total Coliform Bacteria, /100ml	ENZ. SUB. SM9223	Absent	Absent	Absent	1/13/2017 9:35:00 AM	M-MA1118

MCL=Maximum Contaminant Level (EPA Limit), MRL = Minimum Reporting Level

Sodium Guidelines- Mass 20, EPA 250, # = Result Exceeds Limit or Guideline

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Laboratory Director

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NELAC NY 11769
NRPP 101193 AL
NRSB ARL0017EPA 913.0 SM 20 7500 Rn
Liquid Scintillation

Laboratory Report for:

R. Jones
6 Gina Way
Boxford MA 01921

Property Tested:

R. Jones
6 Gina Way
Boxford MA 01921



Log Number	Device Number	Area Tested	Result (pCi/L)
2012369	1232393	Kitchen Sink	< 100

Contact your State Radon Office for information about your radon in water test result. Links to State Radon Offices are available online at <https://geopub.epa.gov/Radon/>.

Comment: Radon Systems, LLC was e-mailed a copy of this report. A copy of this report was emailed to rhysjones53@gmail.com.

Distributed by: Radon Systems, LLC

Sample Collected:	11/13/2016	9:40 pm	Date Received:	11/16/2016	Date Analyzed:	11/17/2016
			Date Logged:	11/16/2016	Date Reported:	11/17/2016

Report Reviewed By:  Report Approved By: **Disclaimer:**

The uncertainty of this radon measurement is +/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Analytical results relate to the samples AS RECEIVED BY THE LABORATORY. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.