ClearWater Laboratory

The Premier Water Testing Lab in Maine

153 Main Street, Suite A
Newport, ME 04953
(207) 368-5700
diane@clearwaterlab.com

Sample # 2021-12-242DW.1
Sample Loc. Kitchen Sink -
Client Partridge, Deanna
715 Cook Road
Carmel, ME 04419

Property Information 714 Cook Road
Carmel, ME 04419

PWSID #
Date/Time Collected 12/17/2021 1030
Date/Time Received 12/17/2021 1137 @ 12.1° C
Date Reported 12/20/2021

Legend

Passes	✓
Fails EPA Primary	✖
Fails EPA Secondary	▽
Unsatisfactory	⊗

REPORT OF LABORATORY ANALYSIS

Parameters	Result	Units	EPA Limits	Pass/ Fail	Method	Date Analyze	Time Analyzed	Lab	Analyst
Total Coliform	<1	MPN	0/100 mL	✓	Colilert	12/17/2021	1215	CWL	sm
E. coli	<1	MPN	0/100 mL	✓	Colilert	12/17/2021	1215	CWL	sm
Nitrate-N*	<1.0	mg/L	10	✓	4500-N03	12/17/2021	1250	CWL	sm
Nitrite-N*	<0.1	mg/L	1.0	✓	4500-N02	12/17/2021	1245	CWL	sm
pH*	7.75	S.U.	6.5-8.5	✓	STM4500 H+,B	12/17/2021	1227	CWL	sm

Laboratory CWL/ClearWater Laboratory - EPA Lab ID # ME00030

The results in this report pertain to the submitted sample only. This report shall not be reproduced, except in full, without written permission from ClearWater Laboratory. This report may contain data that were produced by a subcontracted laboratory accredited for the testing performed. * If Nitrate/Nitrite was received above the 6C preservation, the Maine CDC will accept these results where all other handling and analysis requirements were met for this sample. * If pH was received and analyzed past 15 minutes after sampling; the results may not be valid for compliance reporting.

Signature:

Andrew G. Wendell/Senior Chemist/QA-QC Officer

GRANITE STATE
ANALYTICAL SERVICES, LLC.

22 Manchester Road, Unit 2, Derry, NH 03038
Phone (800) 699-9920 | (603) 432-3044 website www.granitestateanalytical.com

Laboratory Report

ClearWater Laboratory
153 Main St. , Suite A
Newport, ME 04953

Date Printed:	**12/21/2021**
Work Order #:	**2112-02898**
Client Job #:	
Date Received:	**12/20/2021**
Sample collected in:	**Maine**

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of the analyzing laboratory's Quality Assurance Plan, Standard Operating Procedures and State Accreditation. This certificate shall not be reproduced, except in full, without the written approval of the analyzing laboratory. The results presented in this report relate to the samples listed on the following pages in the condition in which they were received. Accreditation for each analyte is identified by the * symbol following the analyte name. Location of our analyzing laboratory is identified by the code in the Analyst Column.

A & L Laboratory:
Identified by ME in Analyst Column
155 Center Street, Auburn, Maine 04210
www.allaboratory.com

Granite State Analytical Services LLC:
Identified by NH in Analyst Column
22 Manchester Road, Derry, NH 03038
www.granitestateanalytical.com

ANALYSIS RELATED NOTES:

- RL: "Reporting limit" means the lowest level of an analyte that can be accurately recovered from the matrix of interest.
- A & L Laboratory / Granite State Analytical Services LLC. accreditation lists can be found on our websites listed above.
- Subcontracted samples will be identified by the Accreditation number of the subcontract laboratory in the analyst field for each analyte and the appropriate laboratory will be listed here. None
- Data Qualifiers (DQ) Flags provide additional information in regards to the receipt, analysis or quality control of a sample. These are indicated under the DQ Flags Column on your report and listed here if necessary: Data Qualifier (DQ) Flags: None

SAMPLE STATE SPECIFIC NOTES:

- The thermal preservation requirement of 4°C for nitrate & nitrite has been waived by the Maine CDC for all samples submitted to the Drinking Water Program.

Additional Narrative or Comments: None

We appreciate the opportunity to provide you with laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be happy to assist you.

Donald A. D'Anjou, Ph. D.
Laboratory Director

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ANALYTICAL SERVICES, LLC.

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CERTIFICATE OF ANALYSIS FOR DRINKING WATER

DATE PRINTED: 12/21/2021
CLIENT NAME: ClearWater Laboratory
CLIENT ADDRESS: 153 Main St. , Suite A
Newport, ME 04953

SAMPLE ID #: 2112-02898-001
SAMPLED BY: Client-Customer
SAMPLE ADDRESS: 2021-12-242DW
714 Cook Road
Carmel ME

MORE LOC INFO:

Legend	
Passes	✓
Fails EPA Primary	⊗
Fails EPA Secondary	▽
Fails State Guideline	✕
Attention	⚠

DATE AND TIME COLLECTED: 12/17/2021 10:30AM
DATE AND TIME RECEIVED: 12/20/2021 08:56AM
ANALYSIS PACKAGE: Clearwater-Set A
RECEIPT TEMPERATURE: 5.3° CELSIUS
CLIENT JOB #:

Test Description	Result	Test Units	Pass /Fail	DQ Flag	RL	Limit	Method	Analyst	Date - Time Analyzed
Arsenic*	<0.001	mg/L	✓		0.001	0.010 mg/L	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Calcium	44.4	mg/L			0.1	No Limit	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Copper*	0.0011	mg/L	✓		0.001	1.3 mg/L	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Hardness (calc.)	181	mg CaCO3/L			0.25	No Limit	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Iron	0.59	mg/L	▽		0.1	0.3 mg/L	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Magnesium	17.0	mg/L			0.1	No Limit	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Manganese*	0.0315	mg/L	✓		0.001	0.05 mg/L	EPA 200.8	JLR-NH	12/20/2021 10:48PM
Chloride*	62	mg/L	✓		2	250 mg/L	EPA 300.0	DP-NH	12/20/2021 11:27AM

Donald A. D'Anjou, Ph. D.
Laboratory Director

SEE ACCEPTANCE POLICY ON BACK OF FORM
OFFICE HOURS ARE MONDAY-THURSDAY 8:00AM TO 4:30PM. FRIDAYS 8:00AM TO NOON

ClearWater Laboratory
153 Main Street, Suite A
Newport, ME 04953
207-368-5700

DRINKING WATER TEST - APPLICATION FORM

REPORT TO BE MAILED TO:

Name: Deanna Partridge
Address: 715 Cook Rd
City, State, Zip: Carmel, Me 04419

WELL OWNER/PROPERTY ADDRESS TESTED:

Sampler Name: Deanna Partridge
Property Name: 714 Cook Rd
Address Tested: 714 Cook Rd Carmel Me 04419

Date Sample Taken: 12/17/2021
Time Sample Taken: approx 10:30am
Phone: (207) 385-7189
Email Report To: deannapartridge@msn.com
Collected From (circle one) Kitchen Sink / Bathroom Sink / Bath Tub / Outside Spigot / Other:

Check with your Real Estate Agent/Lender to make sure all requirements are included in the sets below
If First Draw Lead is required, please call laboratory for special container

SET A: Conventional Mortgage — $100.00 — [X]
Total Coliform/E.Coli (MPN), Copper, Iron, Manganese, Chloride, Arsenic, Hardness, Nitrite-N, Nitrate-N, pH

SET B: FHA/HUD/VA — $130.00 — [ ]
Total Coliform/E.Coli (MPN), Copper, Iron, Manganese, Chloride, Arsenic, Hardness, Nitrate-N, Nitrite-N, Sodium, pH, ***1st Draw Lead**

SET C: Basic Safety Check — $55.00 — [ ]
Total Coliform/E.Coli (MPN), Nitrate-N, Nitrite, pH

SET D: Rural Development — $110.00 — [ ]
Total Coliform/E.Coli (MPN), Copper, Iron, Manganese, Chloride, Fluoride, Hardness, Nitrite-N, Nitrate-N, pH

SET E: New Well Test — $200.00 — [ ]
Total Coliform/E. Coli (MPN), Copper, Iron, Manganese, Chloride, Arsenic, Hardness, Nitrite-N, Nitrate-N, pH, Fluoride, Antimony, Uranium

SET F: Day Care/5 Year Test — $170.00 — [ ]
Total Coliform/E. Coli (MPN), Copper, Iron, Manganese, Chloride, Arsenic, Hardness, Nitrite-N, Nitrate-N, pH, Fluoride, Uranium, ***1st Draw Lead**

***See Back Page for 1st Draw Lead Instructions.**
Call Laboratory for Special Container.

INDIVIDUAL TESTS:

$35.00	[ ]	Total Coliform/E. Coli (Most Probable Number Count)
$30.00	[ ]	Total Coliform/E. Coli (Presence/Absent)
$15.00	[ ]	pH
$20.00	[ ]	Copper
$20.00	[ ]	Lead
$30.00	[ ]	First Draw Lead - (**Call laboratory for special container**)
$30.00	[ ]	Arsenic, Total
$60.00	[ ]	Arsenic Speciation (Total Arsenic, Arsenic III, Arsenic V)
$20.00	[ ]	Chromium
$20.00	[ ]	Sodium
$20.00	[ ]	Iron
$20.00	[ ]	Manganese
$20.00	[ ]	Nitrate
$20.00	[ ]	Nitrite
$30.00	[ ]	Fluoride
$20.00	[ ]	Hardness
$50.00	[ ]	Mercury
$65.00	[ ]	Uranium
$50.00	[ ]	Antimony
$20.00	[ ]	Chloride

PAID
DEC 17 2021

PAYMENT OPTIONS:
Check/Mastercard/Visa #: _____ Exp. _____
CVC _____

Total Cost: 100.00

TO BE COMPLETED BY LABORATORY

Received By:	Date/Time Received	Temp Received	Comments (Acceptable / Unacceptable)	Lab Sample Identification #
BJ Cerny	12/17/2021 1137	12.1°C		2021-12-242DW

REV SEPTEMBER 2019

DRINKING WATER STANDARDS AND WATER ANALYSES INTERPRETATION

Drinking water standards are regulations that EPA sets to control the level of contaminants in the nation's drinking water. There are two categories of drinking water standards:

✖ **Fails National PRIMARY drinking water regulations (primary standard):** The National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.

▽ **Fails National SECONDARY drinking water regulations (secondary standard):** EPA has established National Secondary Drinking Water Regulations (NSDWRs) that set non-mandatory water quality standards for 15 contaminants. EPA does not enforce these "secondary maximum contaminant levels" (SMCLs). They are established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color, and odor. These contaminants are not considered to present a risk to human health at the SMCL.

⊗ **Unsatisfactory drinking water:** As of April 1, 2016, the EPA removed total coliform (TC) bacteria limits from the list of primary drinking water regulations. However, because the presence of TC bacteria in drinking water still indicates the potential for contamination in the water source, Maine's Center for Disease Control recommends any positive TC result be considered unsatisfactory. Further investigation and action is required to identify and rectify potential sources of TC, because any pathway used by TC to enter the drinking water can also be used by fecal contamination and/or waterborne pathogens such as viruses and parasitic protozoa.

✓ **Passes both Primary/Secondary Standard.**

Primary Contaminant Standards Below:

E. coli: (EPA Standard - 0 per 100 ml or absent per 100 ml sample): If E. coli is detected in drinking water it is not safe to drink! The presence of E. coli indicates contamination by animal or human fecal wastes and can also contain harmful pathogenic bacteria, viruses or parasites. Do not drink this water until you have disinfected and retested your well. See reverse side for instructions on how to disinfect your well with chlorine.

Arsenic: (EPA Standard - below 0.010 mg/L): Natural deposits or from manufacturing or herbicides. Potential health effect from long term exposure is skin damage or problems with circulatory system, and may have increased risk of cancer.

Nitrate Nitrogen: (EPA Standard below 10.0 mg/L): Nitrite Nitrogen: (EPA Standard below 1.0 mg/L):

Typical sources of nitrate or nitrite in drinking water are manure, fertilizer and septic systems. Infants below the age of six months who drink water containing nitrate in excess of the 10 mg/L could become seriously ill. Noticeable effects include shortness of breath and blue-baby syndrome.

Lead: (EPA Standard - below 0.015 mg/L): Common source is discharge from metal refineries and agricultural chemical factories. Lead is rarely found in source water, but enters tap water through corrosion of plumbing materials. Effects in children, include delays in mental/physical development. Effects in adults are kidney problems or high blood pressure.

Antimony: (EPA Standard - below 0.006 mg/L): Common source is discharge from petroleum refineries, fire retardants, ceramics, electronics, solder. Increase in blood cholesterol, decrease in blood sugar.

Uranium: (EPA Standard - below 30 ug/L): Common source is radioactive element which is found in almost all forms of soil, rocks and water sources. Increased cancer risk, liver damage. If you have high uranium results you should test for radon and arsenic in your water.

Copper: (Recommended Level is less than 1.3 mg/L): Causes: Metallic taste, blue-green staining in toilets, shower. Copper is normally introduced into your water from household plumbing systems.

Secondary Contaminant Standards Below:

pH: (Recommended level is between 6.5 to 8.5): The pH of a water sample indicates its acidity. pH values range from 0 (very acidic) to 14 (very basic). 7.0 indicates water that is neutral (neither acidic nor basic). Most ground waters have pH values ranging from 5.5 to slightly over 8.0. Low pH: bitter metallic taste; corrosion. High pH: slippery feel, soda taste.

Hardness: (Soft 0-60 mg/L, Moderately Soft 61-120 mg/L, Hard 121-180 mg/L, Very Hard 180-300 mg/L): Hardness in water is the total concentration of calcium and magnesium, which are picked up by water passing through the underground mineral deposits. Hard water is not considered contaminated, but it does retard the cleaning action of soap and forms a scale on cooking utensils, hot water pipes and heaters. Hard water is not harmful to your health.

Chloride: (Recommended range is less than 250 mg/L): Concentrations above 250 mg/L will give a salty taste to your water and could cause corrosion of pipes and plumbing fixtures. High chloride results could be from saltwater or road salt contamination.

Iron: (Recommended Level is less than 0.3 mg/L): Causes: Rusty color, sediment, metallic taste, reddish or orange staining in toilet bowls or laundry. A water softener is the primary form of treatment.

Manganese: (Recommended Level is less than 0.05 mg/L): Causes: Black to brown color, black staining, bitter metallic taste. Rotten egg smell to your water. A water softener is the primary form of treatment.

Fluoride: (Recommended Level is less than 4.0 mg/L): Fluoride has been shown to reduce tooth decay in children's teeth. Over 4.0 mg/L studies have shown staining of the teeth and can damage bone tissue.

DISINFECTING A WELL

Mixing chlorine bleach (Clorox*, Dazzle, or an EPA/NSF approved bleach.) with the water in the well or spring in the following dosages may disinfect the water system: * Be sure to use 'regular' Clorox with a concentration of 6.0% sodium hypochlorite.

DUG WELL:

DEPTH*	5 FT	10 FT	15 FT	20 FT
DOSAGE	½ GAL	1 GAL	1 1/2 GAL	2 GAL

*Approximate amount of water in the bottom of a well and not the total depth of the well. For a surface SPRING, use 2 gallons.

DRILLED WELL:

Depth	50 FT	100 FT	150 FT	200 FT	250 FT	300 FT
DOSAGE*	2 1/2C	1 1/2QT	2 QT	2 1/2QT	3 QT	3 1/2 QT

* GAL = gallon, QT = quart, C = cup

*PLEASE NOTE: A greater amount of chlorine maybe needed to disinfect the water depending on the degree of contamination.

Once the chlorine has been mixed with the water, open all faucets, sill cocks and similar outlets individually until you smell chlorine in each outlet. Allow the mixture to stand in the system overnight, then flush the chlorine mixture from the system using an outside faucet and garden hose. DO NOT FLUSH THE MIXTURE INTO YOUR SEPTIC SYSTEM. You may resume using the toilet facilities as the septic system is designed to handle this, but the septic system cannot handle the large amount of water needed to flush the chlorine from the well. Since the chlorine will kill grass, be careful where you run the water outside. After disinfection, the water supply should be re-sampled. Re-sampling should be done only after the odor of chlorine disappears. It takes about 3 or 4 days of normal water usage before all of the chlorine smell disappears.