

Workorder: SPECIAL (B400708)

Project ID: 9990250 - BRISTOL CONSERVATION
COMM

Tuesday, February 27, 2024

CHRISTINA GOODWIN
TOWN OF BRISTOL
5 SCHOOL ST
Bristol, NH 03222

Client: BRISTOL CONSERVATION COMM

Profile: SPECIAL

Sampled By: CARROLL BROWN

RE: Workorder: SPECIAL (B400708)

Project ID:9990250 - BRISTOL CONSERVATION COMM

Dear CHRISTINA GOODWIN,

Enclosed are the analytical results for the sample(s) received by the laboratory on Tuesday, 2/13/2024 9:35:03 AM. Unless indicated as exceptions, the sample(s) met EPA requirements for hold times, preservation techniques, container types and other receipt conditions. Please contact us if you need measurement uncertainty values associated with radiological parameters. Results reported conform to the most current NELAC standard, where applicable, unless otherwise narrated in the body of the report. Any results reported for samples subcontracted to another laboratory are indicated on the report. Please refer to <https://www4.des.state.nh.us/CertifiedLabs/Certified-Method.aspx> for a copy of our current NELAP certificate and accredited parameters.

We appreciate the opportunity to provide this analytical service for you. If you have any questions regarding this report or your results, please feel free to contact us. We value your feedback please send comments to Waterlab@dhhs.nh.gov.

The following signature indicates technical review and acceptance of the data.

Authorized Signature:



LUCIO S. BARINELLI, Ph.D.
Program Manager

Enclosures

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Data Qualifier Descriptions

The following are a list of some column headers and abbreviations with their meanings as used throughout the analysis report. Referring to them will assist you in interpreting your report.

RDL= The lowest value the laboratory calibrates its instrumentation for this parameter. Any instrumental estimate of results below the Report Limit is reported as Not Detected (ND).

DF= For some heavily contaminated samples, the laboratory must dilute samples to keep the final number within its calibration scale. This is referred to as the Dilution Factor. Final results and reporting limits are adjusted relative to the DF used.

QUAL= Indicates that the result has been qualified. Refer to the Analytical Report Comments and Qualifiers page for details.

LIMIT= Reflects the Maximum Contamination Level (MCL), if one exists, a secondary or recommended level or another State or Federal action level.

Surrogates = For some analyses, the laboratory adds a number of compounds to monitor analytical performance. These results are provided for your information.

> = Greater than

< = Less than

mg/L = milligrams per Liter

ug/L = micrograms per Liter

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

P-A = Present/Absent

CTS/100 mL = Counts per 100
milliliters

CFU = Colony forming unit

MPN = Most Probable Number

pCi/L = picoCuries per Liter

J = Estimated value; analyte detected at less than the Reporting Limit but greater than the laboratory's Method Detection Limit.

B = Analyte detected in the method blank for the batch of samples. Its presence in the sample may be suspect.

E = Estimated value; result exceeded the upper calibration level for the parameter.

Radiological results are expressed as a number + an uncertainty factor. Uncertainty is a calculated measure of the precision around the reported value.

All results for pH and residual chlorine samples analyzed more than 15 minutes after time of collection shall be considered QUALIFIED.

For assistance in interpreting your lab results and obtaining information regarding water treatment; go to www.des.nh.gov and search "Be Well Informed." Or go to <https://www4.des.state.nh.us/DWITool/>.

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Sample Summary

Lab ID	Sample ID	Ref ID	Matrix	Date Collected	Date Received	Misc	Sample Type
B400708001	PLANKEY SPRING	BRISTOL	WA	02/13/2024 08:07	02/13/2024 09:35		SAMPLE

Workorder Summary

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Analytical Results

Lab ID:	B400708001	Date Collected:	02/13/2024 08:07		Matrix:	WATER		
Sample ID:	PLANKEY SPRING	Date Received:	02/13/2024 09:35		Description:	BRISTOL		
Parameter	Results	Units	RDL	DF	Prepared	Analyzed	Limit	Qual
METALS (EPA 200.7)								
Copper	ND	mg/L	0.050	1		02/21/2024 10:08	1.3	
Hardness	13.3	mg/L	3	1		02/21/2024 10:08		
Iron	ND	mg/L	0.050	1		02/21/2024 10:08	.3	
Manganese	ND	mg/L	0.010	1		02/21/2024 10:08	.3	
Sodium	2.79	mg/L	1.00	1		02/21/2024 10:08	60	
METALS (EPA 200.8)								
Arsenic	ND	mg/L	0.0010	1		02/22/2024 04:08	.005	
Lead	ND	mg/L	0.0010	1		02/22/2024 04:08	.015	
Uranium	ND	ug/L	1.0	1		02/22/2024 04:08	30	
Microbiology Analysis (SM 9223B)			Preparation Method: (SM 9223B)					
Total Coliform, P/A, CHR/FLU	ABSENT	P-A/100mL			02/13/2024 10:05	02/14/2024 12:20		
E.Coli, P/A, CHR/FLU	ABSENT	P-A/100mL			02/13/2024 10:05	02/14/2024 12:20		
VOLATILES GCMS (EPA 524.2)								
Acetone	ND	ug/L	10	1		02/14/2024 12:55		
Benzene	ND	ug/L	0.5	1		02/14/2024 12:55	5	
Bromobenzene	ND	ug/L	0.5	1		02/14/2024 12:55		
Bromochloromethane	ND	ug/L	0.5	1		02/14/2024 12:55		
Bromodichloromethane	ND	ug/L	0.5	1		02/14/2024 12:55		
Bromoform	ND	ug/L	0.5	1		02/14/2024 12:55		
Bromomethane	ND	ug/L	0.5	1		02/14/2024 12:55		
t-Butanol (TBA)	ND	ug/L	10	1		02/14/2024 12:55		
2-Butanone(MEK)	ND	ug/L	10	1		02/14/2024 12:55		
n-Butylbenzene	ND	ug/L	0.5	1		02/14/2024 12:55		
sec-Butylbenzene	ND	ug/L	0.5	1		02/14/2024 12:55		
t-Butylbenzene	ND	ug/L	0.5	1		02/14/2024 12:55		
Carbon disulfide	ND	ug/L	0.5	1		02/14/2024 12:55		
Carbon tetrachloride	ND	ug/L	0.5	1		02/14/2024 12:55	5	
Chlorobenzene	ND	ug/L	0.5	1		02/14/2024 12:55	100	
Chloroethane	ND	ug/L	0.5	1		02/14/2024 12:55		
Chloroform	ND	ug/L	0.5	1		02/14/2024 12:55		
Chloromethane	ND	ug/L	2.0	1		02/14/2024 12:55		
2-Chlorotoluene	ND	ug/L	0.5	1		02/14/2024 12:55		
4-Chlorotoluene	ND	ug/L	0.5	1		02/14/2024 12:55		
Dibromochloromethane	ND	ug/L	0.5	1		02/14/2024 12:55		

FINAL REPORT OF LABORATORY ANALYSIS

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Dibromomethane	ND	ug/L	0.5	1	02/14/2024 12:55	
1,4-Dichlorobenzene	ND	ug/L	0.5	1	02/14/2024 12:55	75
1,3-Dichlorobenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
1,2-Dichlorobenzene	ND	ug/L	0.5	1	02/14/2024 12:55	600
Dichlorodifluoromethane	ND	ug/L	0.5	1	02/14/2024 12:55	
1,2-Dichloroethane	ND	ug/L	0.5	1	02/14/2024 12:55	5
1,1-Dichloroethane	ND	ug/L	0.5	1	02/14/2024 12:55	
cis-1,2-Dichloroethene	ND	ug/L	0.5	1	02/14/2024 12:55	70
trans-1,2-Dichloroethene	ND	ug/L	0.5	1	02/14/2024 12:55	100
1,1-Dichloroethene	ND	ug/L	0.5	1	02/14/2024 12:55	7
1,3-Dichloropropane	ND	ug/L	0.5	1	02/14/2024 12:55	
2,2-Dichloropropane	ND	ug/L	0.5	1	02/14/2024 12:55	
1,2-Dichloropropane	ND	ug/L	0.5	1	02/14/2024 12:55	5
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	02/14/2024 12:55	
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	02/14/2024 12:55	
1,1-Dichloropropene	ND	ug/L	0.5	1	02/14/2024 12:55	
Diethyl ether	ND	ug/L	0.5	1	02/14/2024 12:55	
Diisopropyl ether (DIPE)	ND	ug/L	0.5	1	02/14/2024 12:55	
Ethyl-t-butyl ether (ETBE)	ND	ug/L	0.5	1	02/14/2024 12:55	
Ethylbenzene	ND	ug/L	0.5	1	02/14/2024 12:55	700
Hexachlorobutadiene	ND	ug/L	0.5	1	02/14/2024 12:55	
2-Hexanone	ND	ug/L	10	1	02/14/2024 12:55	
Isopropylbenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
p-Isopropyltoluene	ND	ug/L	0.5	1	02/14/2024 12:55	
2-Methoxy-2-methylbutane (TAME)	ND	ug/L	0.5	1	02/14/2024 12:55	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10	1	02/14/2024 12:55	
Methyl-t-butylether (MTBE)	ND	ug/L	0.5	1	02/14/2024 12:55	13
Methylene Chloride	ND	ug/L	0.5	1	02/14/2024 12:55	5
Naphthalene	ND	ug/L	0.5	1	02/14/2024 12:55	
n-Propylbenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
Styrene	ND	ug/L	0.5	1	02/14/2024 12:55	100
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	1	02/14/2024 12:55	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	02/14/2024 12:55	
Tetrachloroethene	ND	ug/L	0.5	1	02/14/2024 12:55	5
Tetrahydrofuran (THF)	ND	ug/L	10	1	02/14/2024 12:55	
Toluene	ND	ug/L	0.5	1	02/14/2024 12:55	1000

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1,3,5-Trichlorobenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	1	02/14/2024 12:55	70
1,2,3-Trichlorobenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
1,1,1-Trichloroethane	ND	ug/L	0.5	1	02/14/2024 12:55	200
1,1,2-Trichloroethane	ND	ug/L	0.5	1	02/14/2024 12:55	5
Trichloroethene	ND	ug/L	0.5	1	02/14/2024 12:55	5
Trichlorofluoromethane	ND	ug/L	0.5	1	02/14/2024 12:55	
1,2,3-Trichloropropane	ND	ug/L	0.5	1	02/14/2024 12:55	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	1	02/14/2024 12:55	
Vinyl Chloride	ND	ug/L	0.5	1	02/14/2024 12:55	2
m/p-Xylene	ND	ug/L	1.0	1	02/14/2024 12:55	
o-Xylene	ND	ug/L	0.5	1	02/14/2024 12:55	
Total Xylenes	ND	ug/L	1.5	1	02/14/2024 12:55	10000

Surrogates

Parameter	Units	Spiked Amount	Spike Result	Spike Recovery	Control Limits
1,2-Dichlorobenzene-d4 (S)	ug/L	1	0.9	92	70 - 130
4-Bromofluorobenzene (S)	ug/L	1	0.8	82	70 - 130

WET CHEMISTRY (LACHAT 10-107-04-1-C)

Nitrate-Nitrogen	ND	mg/L	0.050	1	02/13/2024 15:05	10
Nitrite-Nitrogen	ND	mg/L	0.050	1	02/13/2024 15:05	1
Nitrate+Nitrite-Nitrogen	ND	mg/L	0.050	1	02/13/2024 15:05	

WET CHEMISTRY (LACHAT 10-109-12-2-A)

Fluoride	ND	mg/L	0.20	1	02/13/2024 15:05	4
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WET CHEMISTRY (LACHAT 10-117-07-1-B)

Chloride	ND	mg/L	3.0	1	02/13/2024 15:05	250
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WET CHEMISTRY (SM 4500-H+B)

pH	6.57	units	1.0	1	02/13/2024 14:16	
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