



Your C.O.C. #: 864080-01-01

Attention: Jeremy George

GWS Glenbriar Water Store
Bottled Water
183 Frobisher Drive
Waterloo, ON
CANADA N2V 2G4

Report Date: 2022/02/03

Report #: R6989098

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C225675

Received: 2022/01/31, 13:36

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2022/02/01	CAM SOP-00448	SM 23 2320 B m
Carbonate, Bicarbonate and Hydroxide	1	N/A	2022/02/03	CAM SOP-00102	APHA 4500-CO ₂ D
Chloride by Automated Colourimetry	1	N/A	2022/02/02	CAM SOP-00463	SM 23 4500-Cl E m
Conductivity	1	N/A	2022/02/01	CAM SOP-00414	SM 23 2510 m
Dissolved Organic Carbon (DOC) (1)	1	N/A	2022/02/02	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO ₃)	1	N/A	2022/02/02	CAM SOP 00102/00408/00447	SM 2340 B
Metals Analysis by ICPMS (as received) (2)	1	N/A	2022/02/02	CAM SOP-00447	EPA 6020B m
Ion Balance (% Difference)	1	N/A	2022/02/03		
Anion and Cation Sum	1	N/A	2022/02/03		
Total Ammonia-N	1	N/A	2022/02/03	CAM SOP-00441	USGS I-2522-90 m
Nitrate & Nitrite as Nitrogen in Water (3)	1	N/A	2022/02/02	CAM SOP-00440	SM 23 4500-NO ₃ /NO ₂ B
pH	1	2022/02/01	2022/02/02	CAM SOP-00413	SM 4500H+ B m
Orthophosphate	1	N/A	2022/02/02	CAM SOP-00461	EPA 365.1 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2022/02/03		Auto Calc
Sat. pH and Langelier Index (@ 4C)	1	N/A	2022/02/03		Auto Calc
Sulphate by Automated Colourimetry	1	N/A	2022/02/02	CAM SOP-00464	EPA 375.4 m
Total Dissolved Solids (TDS calc)	1	N/A	2022/02/02		Auto Calc

Remarks:

Scope Statement:

The analysis detailed in this document is intended to assist you, the Client, in your efforts and responsibility to produce safe food. The analysis may be for contaminants or adulterants that are known to be or may potentially be harmful, or that may impact on the quality or desired characteristics of the product. The results are representative of the samples at the time and condition of submission, and as determined by the indicated method(s). When Bureau Veritas has not been responsible for the sampling stage (e.g. the sample has been provided by the customer), the results apply to the sample received from the client. Any inference as to their applicability to any particular product, production lot, intermediate, ingredient or facility should be made by an individual with relevant expertise, based on an understanding of the product and the suitability of the sampling protocol.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(2) Metals analysis was performed on the sample 'as received'.

(3) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.



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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Jared Bowers, Customer Service Representative

Email: Jared.Bowers@bureauveritas.com

Phone# (905)817-5834

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Total Cover Pages : 2

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID				RSZ456	
Sampling Date				2022/01/31 13:00	
COC Number				864080-01-01	
	UNITS	MAC	A/O	PREPARED SPRING	RDL
Aluminum (Al)	ug/L	-	100	ND	4.9
Antimony (Sb)	ug/L	6	-	ND	0.50
Arsenic (As)	ug/L	10	-	ND	1.0
Barium (Ba)	ug/L	1000	-	ND	2.0
Beryllium (Be)	ug/L	-	-	ND	0.40
Boron (B)	ug/L	5000	-	110	10
Cadmium (Cd)	ug/L	5	-	ND	0.090
Calcium (Ca)	ug/L	-	-	55000	200
Chromium (Cr)	ug/L	50	-	ND	5.0
Cobalt (Co)	ug/L	-	-	ND	0.50
Copper (Cu)	ug/L	-	1000	ND	0.90
Iron (Fe)	ug/L	-	300	ND	100
Lead (Pb)	ug/L	10	-	ND	0.50
Magnesium (Mg)	ug/L	-	-	13000	50
Manganese (Mn)	ug/L	-	50	ND	2.0
Molybdenum (Mo)	ug/L	-	-	0.55	0.50
Nickel (Ni)	ug/L	-	-	ND	1.0
Phosphorus (P)	ug/L	-	-	ND	100
Potassium (K)	ug/L	-	-	450	200
Selenium (Se)	ug/L	50	-	ND	2.0
Silicon (Si)	ug/L	-	-	2000	50
Silver (Ag)	ug/L	-	-	ND	0.090
Sodium (Na)	ug/L	-	200000	8900	100
Strontium (Sr)	ug/L	-	-	2000	1.0
Thallium (Tl)	ug/L	-	-	ND	0.050
Titanium (Ti)	ug/L	-	-	ND	5.0
Uranium (U)	ug/L	20	-	ND	0.10
Vanadium (V)	ug/L	-	-	ND	0.50
Zinc (Zn)	ug/L	-	5000	ND	5.0
RDL = Reportable Detection Limit MAC,A/O: Ontario Drinking Water Standards - Maximum Acceptable Concentration [MAC] & Table 4-Chemical/Physical Objectives [A/O] - Not Health Related, respectively (Made under the Ontario Safe Drinking Water Act, 2002) ND = Not Detected at a concentration equal or greater than the indicated Detection Limit. N/A = Not Applicable					



RESULTS OF ANALYSES OF WATER

Bureau Veritas ID				RSZ456	
Sampling Date				2022/01/31 13:00	
COC Number				864080-01-01	
	UNITS	MAC	A/O	PREPARED SPRING	RDL
Anion Sum	me/L	-	-	4.25	N/A
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	-	40	1.0
Calculated TDS	mg/L	-	500	270	1.0
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	-	ND	1.0
Cation Sum	me/L	-	-	4.25	N/A
Hardness (CaCO ₃)	mg/L	-	80:100	190	1.0
Ion Balance (% Difference)	%	-	-	0.0600	N/A
Langelier Index (@ 20C)	N/A	-	-	-0.483	N/A
Langelier Index (@ 4C)	N/A	-	-	-0.733	N/A
Saturation pH (@ 20C)	N/A	-	-	8.07	N/A
Saturation pH (@ 4C)	N/A	-	-	8.32	N/A
Ammonia-N	mg/L	-	-	ND	0.050
Conductivity	umho/cm	-	-	430	1.0
Organic Carbon	mg/L	-	5	ND	0.40
Orthophosphate (P)	mg/L	-	-	ND	0.010
pH	pH	-	6.5:8.5	7.58	N/A
Sulphate (SO ₄)	mg/L	-	500	170	1.0
Alkalinity (Total as CaCO ₃)	mg/L	-	30:500	40	1.0
Chloride (Cl ⁻)	mg/L	-	250	ND	1.0
Nitrite (N)	mg/L	1	-	ND	0.010
Nitrate (N)	mg/L	10	-	ND	0.10
RDL = Reportable Detection Limit MAC,A/O: Ontario Drinking Water Standards - Maximum Acceptable Concentration [MAC] & Table 4-Chemical/Physical Objectives [A/O] - Not Health Related, respectively (Made under the Ontario Safe Drinking Water Act, 2002) ND = Not Detected at a concentration equal or greater than the indicated Detection Limit. N/A = Not Applicable					



**BUREAU
VERITAS**

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GENERAL COMMENTS

Results relate only to the items tested.



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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.