

Report Date: 9/25/2019

9399 West Higgins Rd Ste

1100

Rosemont, IL, 60018

Phone: 877-889-8195 Web: www.culligan.com

Page 1 of 10

CERTIFICATE OF ANALYSIS

ANALYSIS NUMBER: 1912409

Culligan Water Conditioning of Scotia, New York Customer: 660885-Ninth Planet Bev

One Culligan Drive 41 Geyser Rd Scotia, NY 12302 Saratogo NY, 12866

Control Number:

Zinc* (Zn)

Account Number: US10_031 Misc:

Collected By: Josh Baruch cc: jparker@culliganwaterco.com

SAMPLE INFORMATION:

Analysis Type Requested: Comprehensive Analysis

Sampled:9/12/2019 at 2:00 PMSupply/Source:Private WellCondition:Treated WaterReceived:9/18/2019 at 3:00 PMSampling Point:Application:Commercial

ANALYSIS INFORMATION:

NM Turbidity (180.1 Rev. 2 1993): 0.16 NTU Turbidity after filtration: 477.56 Est. TDS by Conductivity: Conductivity (120.1): 771.60 microS/cm Color* (SM2120C, 21Ed): NM Color after Acidification*: <5.00 color 7.97 pH* (150.1): Tannins: <2.00 mg/L

Concentrations reported as mg/L (PPM) unless otherwise indicated

CATIONS (Method 200.7 Rev 4.4)

ANIONS (Method 300.0)

	As Element	As CaCO3		As Element	As CaCO3
Calcium* (Ca)	55.31	138.28	Chloride* (CI)	156.41	220.54
Magnesium* (Mg)	11.89	48.99	Nitrate As N* (NO3)	0.51	1.82
Sodium* (Na)	69.83	152.23	Nitrite As N* (NO2)	<0.10	0.00
Potassium* (K)	1.28	1.64	Sulfate* (SO4)	28.90	30.06
Strontium (Sr)	0.29		Bicarbonate*	140.09	114.87
Barium* (Ba) [ppb]	20.59		Carbonate*	NM	NM
Iron* (Fe)	<0.05		Fluoride* (F)	0.73	1.88
Manganese* (Mn)	<0.02		Silica* (SiO2)	14.60	
Copper* (Cu)	< 0.003				

Mg/L GPG Mg/L GPG Mg/L GPG Cations (CaCO3) 341.14 19.95 Anions (CaCO3) 369.17 21.59 Hardness* (CaCO3) 187.27 10.95

Additional Tests

< 0.05

Aluminum ND ug/L Antimony* ND ug/L Total Arsenic* ND ug/L Berylium* ND ug/L ND ug/L 1.72 ug/L Cadmium (Cd)* Chromium* ND ug/L ND ug/L Lead (Pb)* Mercury (Hg) Selenium (Se)* ND ug/L ND ug/L Silver (Ag)* Thallium (TI)* ND ug/L

Analysis Number: 1912409

Consumer:

NA = Not Analyzed

NM = Not Measured

ND = Not Detected

* = NELAP accredited parameter

This report can only be reproduced in its entirety. The results reported here are representative of the sample as received in the laboratory. Unless noted holding times and temperature requirements for method 300 are not followed. pH results are out of hold time.

NELAP Certifications: IL-100213; PA-68-04623; NY-11756; TX-TX269-2007A State Certifications: IL-IDPH-17598; CA-2958; MT-CERT0091; IA-369;

VT-02199; WI-105-10119; CO-IL100213; MI-9988; MO-1060

Maria Mozdzen Analytical Lab Manager 1912409

Consumer:

FEDERAL SAFE DRINKING WATER ACT

All tested parameters exceeding the maximum concentration levels (MCL) established under the "Federal Safe Drinking Water Act"

<u>Parameter</u> <u>Found</u> <u>MCL</u>

* MCL for Turbidity varies as follows:

Municipal Direct Filtration
 Municipal Sand Filtration
 Unfiltered Water Supply
 NTU
 NTU

TYPICAL POST RO DRINKING WATER UNITS

(Concentrations reported as mg/L (PPM) as the element)

Calcium (Ca)	1.11	Sulfate (SO4)	0.58
Iron (Fe)	0.00	Magnesium (Mg)	0.24
Manganese (Mn)	0.00	Sodium (Na)	1.40
Zinc (Zn)	0.00	Potassium (K)	0.04
Copper (Cu)	0.00	Chloride (CI)	7.82
Nitrate As N (NO3)	0.12	Fluoride (F)	0.04
Nitrite As N (NO3)	0.00		

These values are typical of new modules on water with a pH of 7-9 at 70-74 F with 500-3000 mg/L total salts operating with 40-70 PSI pressure across the module. Local conditions may yield different results.

DI CALCULATION FACTORS						
			GPG	mg/L		
Sodium	44.62%	Weak Base Fact X	14.65	250.60		
Alkalinity	31.12%	Carbonic Acid	7.12	121.77		
Chloride	88.00%	Cation Fact Y	19.95	341.14		
Carbonic Acid	30.71%	Silica	12.11	249.66		
Monovalent lons	57.70%	Carbon Dioxide	0.20	3.45		
Silica	3.79%	Strong Base Fact Z	22.53	385.34		
Method			 Date			
120.1	9/25/2019	150.1	9/25/2019			
180.1 Rev. 2 1993	9/25/2019	200.7 R4.4	9/25/2019			
200.8 R5.4	9/25/2019	245.1 Rev. 3	9/25/2019			
300.0 R2.1	9/25/2019	SM 5550	9/25/2019			
SM2120C, 21Ed	9/25/2019	SM2120C,21Ed	9/25/2019			
SM2320B, 18Ed	9/25/2019					



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Phone: 877-889-8195 Web: www.culligan.com

Comprehensive Analysis

Customer Name: 660885-Ninth Planet Bev

Customer Address: 41 Geyser Rd

Customer City, State:

Sample Date: 9/18/2019

Sample Description:Condition:Treated WaterDate Reviewed:9/25/2019Sample I.D.:1912409

Contaminant Sample Result AAMI Suggested MCL **Instrument Detection Limit ALUMINUM** <2.00 ug/L 10.00 ug/L 2.000 ug/L <2.00 ug/L **ANTIMONY** 2.000 ug/L 6.00 ug/L **BARIUM** 20.59ug/L 100.00 ug/L 10.000 ug/L **BERYLIUM** <0.10 ug/L 4.00 ug/L 0.100 ug/L **CADMIUM** <0.10 ug/L 1.00 ug/L 0.100 ug/L **CALCIUM** 55.31mg/L 2.00 mg/L 0.100 mg/L **CHLORIDE** 156.41mg/L 50.00 mg/L 0.500 mg/L CHROMIUM 1.72ug/L 14.00 ug/L 0.500 ug/L **COPPER** <0.02 mg/L 0.10 mg/L 0.015 mg/L **FLUORIDE** 0.73mg/L 0.20 mg/L 0.200 mg/L **LEAD** <1.00 ug/L 5.00 ug/L 1.000 ug/L **MAGNESIUM** 11.89mg/L 4.00 mg/L 0.100 mg/L <0.20 ug/L **MERCURY** 0.20 ug/L 0.200 ug/L **NITRATE** 0.51mg/L 2.00 mg/L 0.200 mg/L **POTASSIUM** 1.28mg/L 8.00 mg/L 0.100 mg/L <2.00 ug/L **SELENIUM** 90.00 ug/L 2.000 ug/L <0.10 ug/L SILVER 5.00 ug/L 0.100 ug/L 69.83mg/L **SODIUM** 70.00 mg/L 0.100 mg/L **SULFATE** 28.90mg/L 100.00 mg/L 3.000 mg/L **THALLIUM** <1.00 ug/L 2.00 ug/L 1.000 ug/L **ARSENIC** <1.00 ug/L 5.00 ug/L 1.000 ug/L ZINC <0.05 mg/L 0.10 mg/L 0.050 mg/L

To convert ug/L to mg/L, Divide the ug/L value by 1000.

The physician in charge of dialysis has the ultimate responsibility for selecting the maximum allowable levels of chemical contaminants in the water and also is responsible for monitoring the water. For further information regarding the physician's responsibility Please contact: Association for the Advancement of Medical Instrumentation 3330 Washington Boulevard, Suite 400 Arlington, VA 22201-4598

The above detection limits are representative of the water sample on the day tests were performed.

N.D. = Not Detected

Chlorine and Chloramine must be measured on-site and consequently are not listed.

NELAP Certifications: IL-100213; PA-68-04623; NY-11756; TX-TX269-2007A

State Certifications: IL-IDPH-17598; CA-01133A; MT-CERT0091; IA-369; VT- VT02199; WI-399016200

pH - the acid strength of water on a scale of 0 to 14 (neutral = pH 7.0). Values from $7\rightarrow0$ are increasingly more acidic; values from $7\rightarrow14$ are increasingly more alkaline. The recommended range for drinking water under the U.S. regulations is 6.5 to 8.5.

Conductivity - the relative ability of water to carry an electrical current, used to estimate the total concentration of dissolved ions.

Turbidity - cloudiness in water caused by the dispersion of light by extremely tiny particles. Measured on an arbitrary scale of Nephelometric Turbidity Units (NTUs). The mandatory maximum under U.S. regulations is 0.5 NTU. Turbidity Filtered is measured through 11 micron filter paper.

Color - the amount of brownish-yellow color from dissolved tannins from vegetation (like tea) and metals (like rust) and their combinations, measured on an arbitrary scale. The recommended maximum under U.S. regulations is 15 CU.

Silica, SiO₂ - a naturally occurring dissolved mineral, which produces a glassy scale in high temperature equipment but is more important in predicting the life of certain water treatment media.

Hydrogen Sulfide, H₂S - a toxic, noxious, corrosive gas that smells like rotten eggs. Bacteria acting on sulfate or organic sulfurcontaining materials in the absence of oxygen produce it. Only "special" water analyses can determine hydrogen sulfide levels.

Total Hardness - the sum of all metal ions which react with soap to inhibit sudsing and form "scum" or "bathtub ring" - mostly Calcium and Magnesium. When heated or evaporated, hard water can cause lime scale that can deposit on sink and shower fixtures and walls and result in loss in efficiency or fuel waste in water heaters, boilers, and cooling systems.

Total Alkalinity - the sum of hydroxide (OH⁻), carbonate (CO₃⁻²), and bicarbonate (HCO₃⁻) ions, which can combine with both acids and bases, which act to buffer water and prevent sudden uncontrolled changes in pH.

Cations - ions (atoms or molecules with an electrical charge) with a positive (+) electrical charge, so named because they go toward the cathode in an electric field. Besides the hardness ions, the main cations in water are sodium, Na *, and potassium, K*.

Anions - ions (atoms or molecules with an electrical charge) with a negative (-) electrical charge, so named because they go toward the anode in an electric field. The main anions in water are hydroxide (OH $^-$), carbonate (CO $_3^{-2}$), bicarbonate (HCO $_3^-$) (which together comprise "alkalinity"), sulfate (SO $_4^{-2}$), nitrate (NO $_3^-$) and chloride (CI $^-$).

Nitrate/Nitrite, NO₃-/NO₂- important because of toxicity to infants, nitrate comes from fertilizers and animal wastes. Water supplies with high nitrate levels should also be screened for agricultural pesticides and bacterial contamination. The mandatory limit under U.S. regulations is 10 mg/L.

Sulfate, SO₄-2 - a common mineral component, only rarely occurring at excessive levels, which can cause a temporary diarrhea in visitors who have not become acclimated to it. Recommended U.S. limit, 250 mg/L.

Fluoride, F⁻ - often added to water to inhibit tooth decay. Mandatory U.S. limits range from 4.0 mg/L in northern regions to 1.4 mg/L in southern regions (where more water in consumed).

Chloride, Cl⁻ - a common mineral component, can be found in elevated levels near seawater and other salt supplies, which can cause taste problems and can contribute to corrosion. Recommended U.S. limit, 250 mg/L.

Iron, Fe - cause of metallic taste, rust stains on laundry and porcelain fixtures, and clogging/fouling of equipment. The recommended U.S. limit is 0.3 mg/L.

Manganese, Mn - cause of metallic taste and black stains on laundry and porcelain. Often occurs in combination with iron. The recommended U.S. limit is 0.05 mg/L Mn or a total of 0.3 mg/L of Fe + Mn.

Copper, Cu - cause of green stains on porcelain and fittings, seldom naturally-occurring, usually due to corrosion. The mandatory U.S. "actions level" of 1.3 mg/L is tied to the regulation for lead contamination due to corrosion of plumbing materials.

Zinc, Zn - cause of metallic taste and upset stomach. Due to corrosion of galvanized plumbing materials. Recommended U.S. limit, 5.0 mg/L.

Units of Concentration used in this Report

gpg-abbreviation for "grains per gallon" calculated in terms of calcium carbonate equivalents. Multiply by 17.12 to convert gpg into either ppm or mg/L.

ppm-abbreviation for "parts per million." Interchangeable with mg/L.

mg/L-abbreviation for "milligrams per liter." Interchangeable with ppm. (There are one million milligrams in a liter of pure water). ppb-abbreviation for "parts per billion." Interchangeable with μg/L or micrograms per liter.

μg/L-abbreviation for "micrograms per liter." Interchangeable with ppb. (There are a billion micrograms in a liter).

1000 ppb = 1 ppm; 1000 μ g/L = 1 mg/L

CONTAMINANT	PRODUCT RECOMMENDATION
All calles in .	Coffee
Alkalinity Aluminum	Softener Softener
	Deionization, Filtration
Antimony	<u>'</u>
Antimony	Ultra Filtration, Reverse Osmosis Arsenic Filter
Arsenic Arsenic +3	Arsenic Filter
Arsenic +5 Arsenic +5	Arsenic Filter
Barium	Softener
Beryllium	Reverse Osmosis, UF, Softener
Bromate	Activated Carbon
Cadmium	Reverse Osmosis, UF, Ion Exchange
Calcium	Softener
Chloride	lon Exchange
Chromium	Reverse Osmosis
Color	Activated Carbon
Conductivity	Deionization
Copper	Reverse Osmosis, Softener
Fluoride	Reverse Osmosis
Hydrogen Sulfide	Aeration, Chemical Filtration
Iron	Aeration, Filtration
Iron Bacteria	Chlorine, UV, Ultrafiltration
Lead	Carbon Block, Faucet Filter
Magnesium	Softener
Manganese	Softener
Mercury	Carbon Block
Mod Susp Solids	Depth Filter, Particle Filter
Nitrate/Nitrite	Reverse Osmosis
pH	Calcite
Potassium	Softener
Selenuim	Reverse Osmosis
Silica	Reverse Osmosis
Silver	Reverse Osmosis, Ion Exchange, Activated Carbon
Slime Forming Bacteria	Chlorine, UV, Ultrafiltration
Sodium	Reverse Osmosis
Solids (TDS, TSS, TS) each	Reverse Osmosis, Deionization
Strontium	No Reliable Treatment
Sulfate	Ion Exchange, Reverse Osmosis
Sulfate Bacteria	Chlorine, UV, Ultrafiltration
Tannins (if color is present)	Carbon Filter
Thallium	Reverse Osmosis, Cation Exchange
TOC	Carbon Filter
Total Coliform	Chlorine, UV, Ultrafiltration
Total Hardness	Softener
Total Phosphate	Particle Filter, Depth Filter, Reverse Osmosis
Uranium	lon Exchange
Volitile Organic Compound	Carbon Filter
Zinc	Reverse Osmosis, Cation Exchange
	Note: The product recommendations listed above are not guaranteed solutions for all applications.
	The client is solely responsible for proper system selection and application . Not all product
	recommendation may be used in all states.

Culligan Water

1912409 SA Culliga



Control Number: _ **UEST** Laboratory

9399 W. Higgins Road Suite 1100 Rosemont, IL 60018

Person Taking Sample: Tosh Box	31 SCOTIOL D5 SANWATERCO, COM ICM
CUSTOMER INFORMATION: Customer Name: 6 60885- Address: 4 Get Ser Rd City: 5000 Ser Customer reported concern:	inth Planet Bev
SAMPLE INFORMATION: Water Supply: Private Municipal Source: Surface Well U Condition: Treated Untreated	
Condition: Treated Untreated Sample Point: Faucet Equipment Application: Household Commercial General Sample* Compliance * if not marked, will treat as general sample	Other National Account
ANALYSIS REQUESTED: Standard w/TOC Analysis: Problem Water Analysis: Comprehensive Analysis: Basic Well: Silver/Realtor Well: Expended Well: Gold Well:	Scale Analysis: Resin Analysis: Depth Filter Analysis: Arsenic Filter: Total Coliform/e-Coli: Iron/Slime/Sulfate Bacteria:
Special Analysis: (List Analysis Requested): For Questions contact Maria Mozdzen at (847) 43	30-1219 or maria.mozdzen@culligan.com
LAB USE ONLY FOR COMPLIANCE SAMPLES:	ed by:Time:
Customer: Please Sign: Rou Bou o Metable Print Name: Boo o Metable	epted by the laboratory



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Report Date: 9/25/2019

CERTIFICATE OF ANALYSIS

Analysis Number: 1912409

Culligan Water Conditioning of Scotia, New York

One Culligan Drive Scotia, NY 12302

Control Number:

Account Number: US10_031 Collected By: Josh Baruch

SAMPLE INFORMATION:

Analysis Type Requested: Comprehensive Analysis

Sampled: 9/12/2019 **Received:** 9/18/2019

9/12/2019 Supply/Source:

18/2019 Sampling Point:

Customer: 660885-Ninth Planet Bev

41 Geyser Rd

Saratogo NY, 12866

Misc:

cc: jparker@culliganwaterco.com

Condition:

Application:

Treated Water

Commercial

This Certificate of Analysis compares the actual test result to national standards as defined in the EPA's Primary and Secondary Drinking Water Regulations.

Private Well

Primary Standards: Are expressed as the maximum contaminant level (MCL) which is the highest level of contaminant that is allowed in drinking water.

MCLs are enforceable standards.

Secondary Standards: Are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. Some states may choose to adopt that as enforceable standards.

ug/L (ppb): Unless otherwise indicated, results and standards are expressed as an amount in micrograms per liter or parts per billion.

mg/L (ppm): Unless otherwise indicated, results and standards are expressed as an amount in milligrams per liter or parts per million.

Minimum Detection Level (MDL): The lowest concentration level that the laboratory can detect a contaminant.

ND: The contaminant was not detected above the minimun detection level.

NA: The contaminant was not analyzed.

*: NELAP accredited parameter.

Status

The contaminant was not detected in the sample above the minimum detection level.



The contaminant was detected below National Standard limit.



The contaminant was detected above National Standard limit.

National Standards

					<u>National Standards</u>		
<u>Status</u>	Contaminant	<u>Results</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	EPA Limit	<u>Primary/</u> <u>Secondary</u>
	Est TDS By Conductivity	477.56		mg/L		500.00	Secondary
	Conductivity	771.60		microS/cm	120.1		
	pH*	7.97			150.1	6.50 to 8.50	Secondary
	Turbidity	0.16	0.100	NTU	180.1 Rev. 2 1993	0.50	Primary
	Turbidity Filtered	<0.100	0.100	NTU	180.1 Rev. 2 1993	0.50	Primary
	Barium*	20.59	10.000	ug/L	200.7 R4.4	2,000.00	Primary
	Calcium*	55.31	0.100	mg/L	200.7 R4.4		
	Copper (Cu)*	<0.015	0.015	mg/L	200.7 R4.4	1.30	Primary
\bigcirc	Hardness (CaCO3)*	187.27 10.95		mg/L GPG	200.7 R4.4		
	Iron (Fe)*	<0.050	0.050	mg/L	200.7 R4.4	0.30	Secondary
	Magnesium*	11.89	0.100	mg/L	200.7 R4.4		
F	Manganese (Mn)*	<0.020	0.020	mg/L	200.7 R4.4	0.05	Secondary
	Potassium	1.28	0.100	mg/L	200.7 R4.4		
	Silica*	14.60	0.010	mg/L	200.7 R4.4		
	Sodium*	69.83	0.100	mg/L	200.7 R4.4		
	Strontium (Sr)	0.29	0.050	mg/L	200.7 R4.4		
	Zinc (Zn)*	<0.050	0.050	mg/L	200.7 R4.4	5.00	Secondary
	Aluminum	<2.000	2.000	ug/L	200.8 R5.4	200.00	Secondary
	Antimony*	<2.000	2.000	ug/L	200.8 R5.4	6.00	Primary
	Total Arsenic*	<1.000	1.000	ug/L	200.8 R5.4	10.00	Primary
H	Berylium*	<0.100	0.100	ug/L	200.8 R5.4	4.00	Primary
H	Cadmium (Cd)*	<0.100	0.100	ug/L	200.8 R5.4	5.00	Primary
	Chromium*	1.72	0.500	ug/L	200.8 R5.4	100.00	Primary
	Lead (Pb)*	<1.000	1.000	ug/L	200.8 R5.4	15.00	Primary
	Selenium (Se)*	<2.000	2.000	ug/L	200.8 R5.4	50.00	Primary
	Silver (Ag)*	<0.100	0.100	ug/L	200.8 R5.4	100.00	Secondary
	Thallium (TI)*	<1.000	1.000	ug/L	200.8 R5.4	2.00	Primary
—	Mercury (Hg)	<0.200	0.200	ug/L	245.1 Rev. 3	2.00	Primary
	Chloride*	156.41	0.500	mg/L	300.0 R2.1	250.00	Secondary
\bigcirc	Fluoride*	0.73	0.200	mg/L	300.0 R2.1	4.00	Primary

National Standards

<u>Status</u>	Contaminant	<u>Results</u>	<u>MDL</u>	<u>Units</u>	<u>Method</u>	EPA Limit	<u>Primary/</u> <u>Secondary</u>
	Nitrate as N*	0.51	0.200	mg/L	300.0 R2.1	10.00	Primary
-	Nitrite as N*	<0.100	0.100	mg/L	300.0 R2.1	1.00	Primary
	Sulfate*	28.90	3.000	mg/L	300.0 R2.1	250.00	Secondary
~	Tannins	<2.000	2.000	mg/L	SM 5550		
~	Color*	<5.000	5.000	color	SM2120C, 21Ed	15.00	Secondary
~	Color after Acidification	<5.000	5.000	color	SM2120C,21Ed		
	Bicarbonate*	140.09		mg/L	SM2320B, 18Ed		
	Carbonate*	NM		mg/L	SM2320B, 18Ed		

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Unless noted holding times and temperature requirements for method 300 are not followed. pH results are out of hold time.

This analysis will not determine whether a water is safe for human consumption.

