



IBWA STANDARD OF QUALITY REPORT

Customer name CULLIGAN OF ALBANY
Customer Address 221 SW 29TH AVE
Customer city, state ALBANY, OR
Sample Date 10/21/2010
Sample Description EQUIPMENT
Date reviewed 12/16/2010

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Sample I.D. 1009198
Report Date 12/16/2010

Inorganic Chemicals (IOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-36-0	Antimony (Sb)	N.D.	6	2	ug/l	200.8
7440-38-2	Arsenic (As)	N.D.	10	2	ug/l	200.8
7940-41-7	Beryllium (Be)	N.D.	4	0.1	ug/L	200.8
	Bromate by ICP	N.D.	10		ug/l	321.8
7440-43-9	Cadmium (Cd)	N.D.	5	0.1	ug/l	200.8
	chloramine	0.010	4		mg/L	999.9
	Chlorine, Total	0.0	0.1		mg/l	999.9
	chlorinedioxide	0.000	0.8		mg/L	999.9
	chlorite	N.D.			mg/L	
7440-47-3	Chromium (Cr)	N.D.	50	0.5	ug/l	200.8
16984-48-8	Fluoride (F)	N.D.	3	0.05	mg/l	300.0
7439-92-1	Lead (Pb)	N.D.	5	1	ug/l	200.8
7439-97-6	Mercury (Hg)	N.D.	1	0.2	ug/l	245.1
7440-02-0	Nickel (Ni)	N.D.	100	10	ug/l	200.8
	Nitrate As N (NO3)	N.D.	10	0.5	mg/l	300.0
	Nitrite As N (NO2)	N.D.	1	0.1	mg/l	300.0
	Perchlorate by IC	0.014	2		ug/L	314.1
7782-49-2	Selenium (Se)	N.D.	10	2	ug/l	200.8
7440-28-0	Thallium (Tl)	N.D.	2	1	ug/l	200.8

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Secondary Inorganic Parameters						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7429-90-5	Aluminum (Al)	N.D.	200	2	ug/l	200.8
	Chloride (Cl)	N.D.	250	0.5	mg/l	300.0
7440-50-8	Copper (Cu)	N.D.	1	0.003	mg/l	200.7
	Est TDS by Cond.	3.	500		ppm	999.9
7439-89-6	Iron (Fe)	N.D.	0.3	0.05	mg/l	200.7
7439-96-5	Manganese (Mn)	N.D.	0.05	0.02	mg/l	200.7
7440-22-4	Silver (Ag)	N.D.	25	0.1	ug/l	200.8
	Sulfate (SO4)	N.D.	250	3	mg/l	300.0
7440-66-6	Zinc (Zn)	N.D.	5	0.05	mg/l	200.7

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Volatile Organic Chemicals (VOCs)						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
630-20-6	1,1,1,2-Tetrachloroethane	N.D.			ppb	524
71-55-6	1,1,1-Trichloroethane	N.D.	30	1	ppb	524
75-34-3	1,1-Dichloroethane	N.D.			ppb	524
75-35-4	1,1-Dichloroethene	N.D.	2	1	ppb	524
	1,1-Dichloropropane	N.D.			ppb	524
563-58-6	1,1-Dichloropropene	N.D.			ppb	524
	1,2,3-Trichlorobenzene	N.D.			ppb	524
96-18-4	1,2,3-Trichloropropane	N.D.			ppb	524
120-82-1	1,2,4-Trichlorobenzene	N.D.	9	1	ppb	524
	1,2,4-Trimethylbenzene	N.D.			ppb	524
96-12-8	1,2-Dibromo-3-chloropropa	N.D.			ppb	524
95-50-1	1,2-Dichlorobenzene	N.D.			ppb	524
107-06-2	1,2-Dichloroethane	N.D.	2	1	ppb	524
78-87-5	1,2-Dichloropropane	N.D.	5	1	ppb	524
79-00-5	1,2-Trichloroethane	N.D.			ppb	524
	1,3,5-Trimethylbenzene	N.D.			ppb	524
541-73-1	1,3-Dichlorobenzene	N.D.			ppb	524
142-28-9	1,3-Dichloropropane	N.D.			ppb	524
106-46-7	1,4-Dichlorobenzene	N.D.			ppb	524
590-20-7	2,2-Dichloropropane	N.D.			ppb	524
95-49-8	2-Chlorotoluene	N.D.			ppb	524
591-78-6	2-Hexanone	N.D.			ppb	524
106-43-4	4-Chlorotoluene	N.D.			ppb	524
67-64-1	Acetone	N.D.			ppb	524

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Volatile Organic Chemicals (VOCs)						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
71-43-2	Benzene	N.D.	1	1	ppb	524
108-86-1	Bromobenzene	N.D.			ppb	524
74-97-5	Bromochloromethane	N.D.			ppb	524
75-27-4	Bromodichloromethane	N.D.			ppb	524
75-25-2	Bromoform	N.D.			ppb	524
74-83-9	Bromomethane	N.D.			ppb	524
75-15-0	Carbon Disulfide	N.D.			ppb	524
56-23-5	Carbon Tetrachloride	N.D.	5	1	ppb	524
108-90-7	Chlorobenzene	N.D.			ppb	524
75-00-3	Chloroethane	N.D.			ppb	524
67-66-3	Chloroform	N.D.			ppb	524
74-87-3	Chloromethane	N.D.			ppb	524
156-59-4	Cis-1,2-Dichloroethene	N.D.	70	1	ppb	524
10061-01-5	cis-1,3-Dichloropropene	N.D.			ppb	524
124-48-1	Dibromochloromethane	N.D.			ppb	524
74-95-3	Dibromomethane	N.D.			ppb	524
75-71-8	Dichlorochlorodifluorometh	N.D.			ppb	524
75-09-2	Dichloromethane	N.D.			ppb	524
100-41-4	Ethylbenzene	N.D.	700	1	ppb	524
74-88-4	Iodomethane	N.D.			ppb	524
98-82-8	Isopropylbenzene	N.D.			ppb	524
	m,p-Xylene	N.D.			ppb	524
78-93-3	Methyl Ethyl Ketone	N.D.			ppb	524
108-10-1	Methyl Isobutyl Ketone	N.D.			ppb	524

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Volatile Organic Chemicals (VOCs)						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	n-Butylbenzene	N.D.			ppb	524
	n-Propylbenzene	N.D.			ppb	524
95-47-6	o-Xylene	N.D.			ppb	524
	p-iso-Propyltoluene	N.D.			ppb	524
	sec-Butylbenzene	N.D.			ppb	524
100-42-5	Styrene	N.D.	100	1	ppb	524
127-18-4	Tetrachloroethene	N.D.	1	1	ppb	524
108-88-3	Toluene	N.D.	1000	1	ppb	524
156-60-5	Trans-1,2-Dichloroethene	N.D.	100	1	ppb	524
10061-02-6	trans-1,3-Dichloropropene	N.D.			ppb	524
79-01-6	Trichloroethene	N.D.	1	1	ppb	524
75-69-4	Trichlorofluoromethane	N.D.			ppb	524
108-05-4	Vinyl Acetate	N.D.			ppb	524
75-01-4	Vinyl Chloride	N.D.	2	1	ppb	524

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Synthetic Organic Chemicals (SOCs)

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Synthetic organic chemical	N.D.				999.9

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Certifications: CA-06249CA; IL-100213; NY-11756; MT-CERT0091; TX-TX269-2007A
IA-369; VT-VT02199 NELAP Accredited

Richard Cook
Manager Analytical Laboratory

IBWA STANDARD OF QUALITY REPORT

Additional Regulated Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
79-34-5	1,1,2,2-Tetrachloroethane	N.D.	1		ppb	524
1634-04-4	Methyl t-butyl ether	N.M.	70		ppb	524
91-20-3	Naphthalene	N.D.	300		ppb	524
7440-61-1	Uranium by ICP MS	N.D.	30		ug/L	200.8

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Water Properties

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Color After Acidific	N.M.	5	5		999.9
	Color As Received	N.D.	5	5		999.9
	Conductivity	4.			MMHOS	999.9
	pH	5.9	5 - 8.5			150.1
	Turb After Filtered	N.M.	0.5		NTU	180.1
	Turbidity As Rec'd	0.1	0.5		NTU	180.1

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Radiological Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Gross Alpha Beta U	N.D.				999.9

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Hardness						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
7440-70-2	Calcium (Ca)	N.D.		0.1	mg/l	200.7
7439-95-4	Magnesium (Mg)	N.D.		0.1	mg/l	200.7
7440-23-5	Sodium (Na)	0.5		0.1	mg/l	200.7
	Total Hardness	N.D.		0.6	mg/l	200.7

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Uncategorized						
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method
	Bromide by ICP	Not Present			ug/L	321.8
	Chlorine, Free	0.0			mg/l	
	Haloacetic Acids	N.D.			ppm	
	M for Alkalinity	3.6			ppm	999.9
	P for Alkalinity	N.M.			ppm	999.9
	pesticide_herb	N.D.				999.9
7440-09-7	Potassium (K)	N.D.		0.1	mg/l	200.7
7440-24-6	Strontium (Sr)	N.D.		0.05	mg/l	200.7
	Tannins mg/l	N.D.		2	mg/l	999.9

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pH – the acid strength of water on a scale of 0 to 14 (neutral = pH 7.0). Values from 7→0 are increasingly more acidic; values from 7→14 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.

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 sulfur-containing 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 (CO₃⁻²), bicarbonate (HCO₃⁻) (which together comprise “alkalinity”), sulfate (SO₄⁻²), nitrate (NO₃⁻) and chloride (Cl⁻).

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 is 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. “action 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).

$$1000 \text{ ppb} = 1 \text{ ppm}; 1000 \text{ µg/L} = 1 \text{ mg/L}$$

THIS ANALYSIS WILL NOT DETERMINE WHETHER A WATER IS SAFE FOR HUMAN CONSUMPTION

BW

Control Number:XXXXXX

Culligan

1009198

Laboratory

SAMPLE SUBMITTED BY:

Account Number: 36010
Account Name: Culligan of Albany
Phone Number: 541-928-9262
FAX Number: 541-928-0787
E-MAIL: Bw Allen@willamettewater.com
Person Taking Sample: CODY WELCH
Date Sample Taken: 10-21-2010 Time Sample Taken: noon

11-11-2010 11:04:46

CUSTOMER INFORMATION:

Customer Name: Culligan of Albany
Address: 221 SW 29th Ave
City: Albany State: OR Zip: 97322
Customer reported concern:

SAMPLE INFORMATION:

Water Supply: Private ___ Municipal X
Source: Surface X Well ___ Unknown ___
Condition: Treated X Untreated ___ Cloudy ___ Colored ___
Sample Point: Faucet ___ Equipment X Other ___
Application: Household ___ Commercial X National Account ___
Comments: IBWA Test - Annual - Lot # 102110

ANALYSIS REQUESTED:

Standard Analysis: ___ Standard w/TOC: ___ Scale Analysis: ___
Membrane Chemical Analysis: ___ Resin Analysis: ___
Hemodialysis Basic: ___ Brine Analysis: ___
Hemodialysis Complete: ___ Depth Filter Analysis: ___
Special Analysis: (List Analysis Requested): IBWA Test - Annual

For Questions or Special Analysis contact Rick Cook at (847) 430-1284

MEMBRANE CHEMICAL INFORMATION ONLY:

Chemical Application: Antiscale ___ Membrane Cleaner ___ Biocide ___
RO Operational Time: Hrs/Day ___ Wks/Yr ___ Avg. Hrs/Wk ___
RO Prod. Flow ___ gpm RO reject Flow ___ Recovery Rate % ___
Feed Temp (F) ___ RO Membrane Mfg ___ Model # ___
Softened Feed: Y N Feed Hardness ___ ppm RO Feed SDI # ___
PH Control: Y N Limits: ___ Chemicals used:H2SO4 ___ CO2 ___ Other ___

LAB USE ONLY:

Sample received in acceptable condition: Yes ___ No ___
Received by: ___ Date: ___ Time: ___
If not reason: ___
Disposition of sample: ___

Purified DW 5 gal

Litigation samples are not accepted by the laboratory.

Customer: Culligan International Company
Please Sign: [Signature] By:
Please print your name: Bruce Allen Its:

Called: Bruce Allen 11/10/10



Burlington WA
Corporate Office

1829 S Walnut St 98233
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360 671 1688

Portland OR
Microbiology, Chemistry

2160 SW Pioneer Ct Ste W 97201
503 682 7802



IBWA STANDARD OF QUALITY REPORT

Client Name: Culligan International Company
9399 W. Higgins Rd. Suite B2
Rosemont, IL 60018

Reference Number: **10-17587**

Project: IBWA/FDA Compliance Bottled Water
Field ID: 1009198
Sample Description: 1009198
Sampled By: Daniela Irimia
Sample Date: 11/15/2010

Lab Number: 39449
Report Date: 12/15/2010
Reviewed By:

Lawrence J
Henderson, PhD
2010.12.15
15:43:38 -08'00'

Inorganic Chemicals (IOCs)							
CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	COMMENT
57-12-5	CYANIDE	ND		0.040	mg/L	SM4500-CN F	

Notation:
A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by EPA, NPDPWR or IBWA
MRL - Method Reporting Limit
An * in front of the parameter name indicates it is not NELAP accredited but it is accredited through WSDOH or USEPA Region 10

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.
If you have any questions concerning this report contact us at the above phone number.
FORM: cIBWA.rpt



Reference Number: **10-17587**
 Lab Number: **39449**
 Report Date: **12/15/2010**

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CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	COMMENT
1497-73-0	* PERCHLORATE	ND		0.0002	mg/L	314.0LL	Analyzed by UL
93-72-1	* 2,4,5 - TP (SILVEX)	ND		0.4	ug/L	515.4	
94-75-7	* 2,4 - D	ND		0.2	ug/L	515.4	
15972-60-8	ALACHLOR	ND		0.4	ug/L	525.2	
116-06-3	ALDICARB	ND		1	ug/L	531.2	
1646-88-4	ALDICARB SULFONE	ND		1	ug/L	531.2	
1646-87-3	ALDICARB SULFOXIDE	ND		1	ug/L	531.2	
1912-24-9	ATRAZINE	ND		0.2	ug/L	525.2	
1563-66-2	CARBOFURAN	ND		1	ug/L	531.2	
57-74-9	CHLORDANE	ND		0.4	ug/L	525.2	
96-12-8	DIBROMOCHLOROPROPANE (DBCP)	ND		0.04	ug/L	504.1	
88-85-7	* DINOSEB	ND		0.4	ug/L	515.4	
72-20-8	ENDRIN	ND		0.02	ug/L	525.2	
106-93-4	ETHYLENE DIBROMIDE (EDB)	ND		0.02	ug/L	504.1	
76-44-8	HEPTACHLOR	ND		0.08	ug/L	525.2	
1024-57-3	HEPTACHLOR EPOXIDE "B"	ND		0.04	ug/L	525.2	
58-89-9	LINDANE (BHC - GAMMA)	ND		0.04	ug/L	525.2	
72-43-5	METHOXYCHLOR	ND		0.2	ug/L	525.2	
23135-22-0	OXYMAL (VYDATE)	ND		1	ug/L	531.2	
87-86-5	* PENTACHLOROPHENOL	ND		0.08	ug/L	515.4	
1918-02-1	* PICLORAM	ND		0.2	ug/L	515.4	
1336-36-3	POLYCHLORINATED BIPHENYLS (PCB)	ND		0.2	ug/L	508.1	
75-99-0	* DALAPON	ND		2	ug/L	515.4	
122-34-9	SIMAZINE	ND		0.15	ug/L	525.2	
8001-35-2	TOXAPHENE	ND		1	ug/L	508.1	
85-00-7	DIQUAT	ND		2	ug/L	549.2	
145-73-3	ENDOTHALL	ND		20	ug/L	548.1	
1071-83-6	GLYPHOSATE	ND		10	ug/L	547	
50-32-8	BENZO(A)PYRENE	ND		0.04	ug/L	525.2	
103-23-1	DI(ETHYLHEXYL)-ADIPATE	ND		1.3	ug/L	525.2	
118-74-1	HEXACHLOROBENZENE	ND		0.2	ug/L	525.2	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND		0.2	ug/L	525.2	
117-81-7	DI(ETHYLHEXYL)-PHTHALATE	ND		1.3	ug/L	525.2	

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These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.



Reference Number: 10-17587
Lab Number: 39449
Report Date: 12/15/2010

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Halo-Acetic Acids

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	COMMENT
79-11-8	* Monochloroacetic Acid	ND		2	ug/L	552.3	
79-43-6	* Dichloroacetic Acid	ND		1	ug/L	552.3	
76-03-9	* Trichloroacetic Acid	ND		1	ug/L	552.3	
79-08-3	* Monobromoacetic Acid	ND		1	ug/L	552.3	
631-64-1	* Dibromoacetic Acid	ND		1	ug/L	552.3	
NA	* HAA(5)	ND		1	ug/L	552.3	

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL.
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by EPA, NPDPWR or IBWA.
MRL - Method Reporting Limit.

An * in front of the parameter name indicates it is not NELAP accredited but it is accredited through WSDOH or USEPA Region 10.

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.



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Other

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	COMMENT
5589-96-3	* Bromochloroacetic Acid	ND		1	ug/L	552.3	

Notation.

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by EPA, NPDR or IBWA
MRL - Method Reporting Limit

An * in front of the parameter name indicates it is not NELAP accredited but it is accredited through WSDOH or USEPA Region 10

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.



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Radiological Contaminants

CAS ID#	COMPOUNDS	RESULT	SOQ	MRL	Units	Method	COMMENT
12587-46-1	* GROSS ALPHA	ND		3	pCi/L	900.0	Analyzed by Pace Labs
12587-47-2	* GROSS BETA	ND		4	pCi/L	900.0	Analyzed by Pace Labs
13982-63-3	* RADIUM 226	ND		1	pCi/L	903.1	Analyzed by Pace Labs
15262-20-1	* RADIUM 228	ND		1	pCi/L	904.0	Analyzed by Pace Labs

Notation:

A Result of "ND" indicates that the compound was not detected above the Lab's Reporting Limit - MRL
SOQ - Standard of Quality, maximum permissible level of a contaminant in water established by EPA, NPDR or IBWA
MRL - Method Reporting Limit

An * in front of the parameter name indicates it is not NELAP accredited but it is accredited through WSDOH or USEPA Region 10

These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.