

Date: 07-SEP-17 PO No.: 0000132962 WO No.: L1983979

LSD: Project Ref:

Sample ID: JOHN 315-DF

Sampled By:

Date Collected: 30-AUG-17 Lab Sample ID: L1983979-14

Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals	90					
Lead (Pb)-Total	0.00106		mg/L	0.01		05-SEP-1
DWQG = Health Canada Guideline Limits updated	DECEMBER 2	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ0	uidelines on con ter Quality	ventional treatm	ent and slow sand	N.D. = less than det or diatomaceous e	ection limit. arth filtration plea	se see
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Approved by Heather McKenzie Account Manager	_		Si			
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Date: 07-SEP-17 PO No.: 0000132962 WO No.: L1983979

LSD: Project Ref:

Sample ID: JOHN 149-FS

Sampled By:

Date Collected: 30-AUG-17 Lab Sample ID: L1983979-15

Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000629		mg/L	0.01		05-SEP-
DWQG = Health Canada Guideline Limits updated	DECEMBER		- 1420 - 2002 - L			
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Furbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQC	uidelines on cor ter Quality	ventional treatm	ent and slow sand	N.D. = less than de for diatomaceous e	lection limit. arth filtration ple	ase see
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Date: 07-SEP-17
PO No.: 0000132962
WO No.: L1983979

LSD: Project Ref:

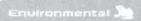
Sample ID: JOHN 157D-DF

Sampled By:

Date Collected: 30-AUG-17 Lab Sample ID: L1983979-16

Matrix: Water

Lead (Pb)-Total  CDWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present Turbidity guideline based on membrane filtration. For guidelines of Summary Table of Guidelines for Canadian Drinking Water Quality. A blank entry designates no known limit.  A shaded value in the Results column exceeds CDWQG MAC and Heather McKenzie Account Manager	IBER 2015 at as Nitrate then the on conventional treat	tment and slow sand	0.01  I.D. = less than detor diatomaceous e	ection limit. arth filtration ple	05-SEP-
DECEMCE  CDWQG = Health Canada Guideline Limits updated  CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present of the properties of the prop	IBER 2015 at as Nitrate then the on conventional treat	limit is 10mg/L < or N tment and slow sand	√.D. = less than det	lection limit. arth filtration ple	
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present urbidity guideline based on membrane filtration. For guidelines of ummary Table of Guidelines for Canadian Drinking Water Quality Is blank entry designates no known limit. A shaded value in the Results column exceeds CDWQG MAC and approved by Heather McKenzie	nt as Nitrate then the on conventional treat	tment and slow sand	I.D. = less than det or diatomaceous e	ection limit. arth filtration ple	ase see
Turbidity guideline based on membrane filtration. For guidelines of ummary Table of Guidelines for Canadian Drinking Water Quality a blank entry designates no known limit.  A shaded value in the Results column exceeds CDWQG MAC and approved by  Heather McKenzie	on conventional treat	tment and slow sand	k.D. = less than det or diatomaceous e	ection limit. arth filtration ple	ase see
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Date: 07-SEP-17
PO No.: 0000132962
WO No.: L1983979

LSD: Project Ref:

Sample ID: JOHN 163-DF

Sampled By:

Date Collected: 30-AUG-17 Lab Sample ID: L1983979-17

Matrix: Water

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00364		mg/L	0.01		05-SEP-
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gumary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ0	juidelines on co ter Quality	nventional treatm	ent and slow sand	N.D. = less than de l or diatomaceous e	tection limit. earth filtration ple	ase see
Approved by Heather McKenzie					(4)	
Account Manager						
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 149 FS

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-18

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000240		mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only furbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wal blank entry designates no known limit. A shaded value in the Results column exceeds CDWQG	uidelines on con ter Quality	itrate then the lin ventional treatm	ent and slow sand	N.D. = less than det or diatomaceous e	ection limit. arth filtration ple	ase see
Approved by Heather McKenzie Account Manager	<del></del> 7					
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 113 BUB

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-19

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals						
Lead (Pb)-Total	0.00505		mg/L	0.01		06-OCT-1
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	juidelines on cor ter Quality	nventional treatm	ent and slow sand	N.D. = less than del l or diatomaceous e	tection limit. arth filtration ple	ase see
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Heather McKenzie Account Manager	<u> </u>					
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 132 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-20

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00142	i.	mg/L	0.01		06-OCT-1
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQC	uidelines on con er Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit, earth filtration ple	ase see
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Heather McKenzie Account Manager						
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 157 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-21

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000345		mg/L	0.01		06-OCT-1
CDWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wat A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQC	uidelines on co er Quality	nventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

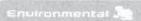
Sample ID: JOHN 163 DF

Sampled By:

Date Collected: 29-SEP-17
Lab Sample ID: L2000092-22

Matrix: WATER

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CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If urbidity guideline based on membrane filtration. For guide mmary Table of Guidelines for Canadian Drinking Water (a blank entry designates no known limit.	present as Nitrate then the elines on conventional trea Quality	atment and slow sand o	D. = less than det r diatomaceous ea	ection limit. arth filtration plea	ise see
Heather McKenzie Account Manager					





Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 115 BUB

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-23

Matrix: WATER

Total Metals  Lead (Pb)-Total  DECEMBER 2015  * CDWQG = Health Canada Guideline Limits updated  * CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate ther  * Turbidity guideline based on membrane filtration. For guidelines on conventional Summary Table of Guidelines for Canadian Drinking Water Quality  - A blank entry designates no known limit.  - A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic of the Approved by Heather McKenzie Account Manager	treatment and slow sand	0.01  N.D. = less than dete or diatomaceous ea	ection limit.	06-OCT-
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate their Turbidity guideline based on membrane filtration. For guidelines on conventional Summary Table of Guidelines for Canadian Drinking Water Quality. A blank entry designates no known limit.  A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic of the Approved by Heather McKenzie.	treatment and slow sand	N.D. = less than dete or diatomaceous ea	ection limit. rth filtration pleas	se see
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. If present as Nitrate ther Turbidity guideline based on membrane filtration. For guidelines on conventional summary Table of Guidelines for Canadian Drinking Water Quality A blank entry designates no known limit.  A shaded value in the Results column exceeds CDWQG MAC and/ or Aesthetic of Approved by  Heather McKenzie	treatment and slow sand	N.D. = less than dete l or diatomaceous ea	ection limit. rth filtration pleas	se see
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD:

Project Ref:

Sample ID: JOHN 116 BUB

Sampled By:

Fountain no longer in service

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-24

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals						
Lead (Pb)-Total	0.0214		mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits updated	DECEMBER 2	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only furbidity guideline based on membrane filtration. For immary Table of Guidelines for Canadian Drinking Was blank entry designates no known limit. I shaded value in the Results column exceeds CDWQ	guidelines on con iter Quality	ventional treatme	ent and slow san	N.D. = less than de d or diatomaceous e	tection limit. arth filtration ple	ase see
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Heather McKenzie Account Manager						100
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD:

**Project Ref:** 

Sample ID: JOHN 109 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-39

Matrix: WATER

Test Description	Result Qualifie	er Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals					
Lead (Pb)-Total	0.000581	mg/L	0.01		06-OCT-1
DWQG = Health Canada Guideline Limits updated	DECEMBER 2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wi A blank entry designates no known limit. A shaded value in the Results column exceeds CDWG	guidelines on conventional tr ater Quality	eatment and slow sand o	.D. = less than de or diatomaceous e	tection limit. earth filtration ple	ase see
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Approved by Allemi	_				
Heather McKenzie Account Manager					
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**Date:** 11-OCT-17 **PO No.:** 0000132962 **WO No.:** L2000092

LSD:

Project Ref:

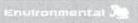
Sample ID: JOHN 115 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-40

Matrix: WATER

Test Description	Resu	ilt Qu		Inits of leasure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.000	0605	*	mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits upon CDWQG for Nitrate+Nitrite-N is the limit for nitraturbidity guideline based on membrane filtration ummary Table of Guidelines for Canadian Drink A blank entry designates no known limit.	ate only. If present. For guideline sing Water Quali	s on convention y	al treatment a	10mg/L < or N nd slow sand o	I.D. = less than det or diatomaceous e	ection limit. arth filtration ple	ase see
A shaded value in the Results column exceeds	CDWQG WAC a	nd/ or Aesthetic	s Objective.				
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 123 SSDF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-41

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00270		mg/L	0.01		06-OCT-
Leau (FD)-10tai	0.00270		mg/L	0.01		00 001
DWQG = Health Canada Guideline Limits updated	DECEMBER					
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Turbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Waf A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQ	uidelines on cor ter Quality	iventional treatm	ent and slow sand	N.D. = less than de or diatomaceous e	tection limit. arth filtration ple	ase see
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Heather McKenzie Account Manager						
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 248 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-42

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0,000620	,	mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate on Turbidity guideline based on membrane filtration. For summary Table of Guidelines for Canadian Drinking WA blank entry designates no known limit. A shaded value in the Results column exceeds CDWG	ly. If present as N guidelines on cor ater Quality	Nitrate then the lin	nent and slow sand	N.D. = less than de or diatomaceous e	etection limit. earth filtration ple	ase see
Approved by Heather McKenzie Account Manager	<u>-</u>					
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 227 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-43

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals						
Lead (Pb)-Total	0.00146		mg/L	0.01		06-OCT-1
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate onl Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking Wi A blank entry designates no known limit. A shaded value in the Results column exceeds CDWG	y. If present as l guidelines on co ater Quality	nventional treatm	nent and slow sand	N.D. = less than de or diatomaceous e	tection limit. earth filtration ple	ease see
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Heather McKenzie Account Manager	2					
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

Sample ID: JOHN 217 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-44

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals						
Lead (Pb)-Total	0.00105		mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate only Furbidity guideline based on membrane filtration. For gammary Table of Guidelines for Canadian Drinking Watank entry designates no known limit.  A shaded value in the Results column exceeds CDWQ	guidelines on cor ter Quality	ventional treatm	ent and slow sand	N.D. = less than de or diatomaceous é	tection limit. arth filtration ple	ease see
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Heather McKenzie Account Manager						
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD:

Project Ref:

Sample ID: JOHN 303 SSDF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-45

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyzed
Total Metals Lead (Pb)-Total	0.000690		mg/L	0.01		06-OCT-1
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate onl Turbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking W A blank entry designates no known limit. A shaded value in the Results column exceeds CDWG	ly. If present as N guidelines on cor later Quality	itrate then the lin	ent and slow sand	N.D. = less than <b>de</b> or diatomaceous e	tection limit. arth filtration ple	ase see
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD:

**Project Ref:** 

Sample ID: JOHN 315 DF

Sampled By:

Date Collected: 29-SEP-17
Lab Sample ID: L2000092-46

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Total Metals Lead (Pb)-Total	0.00101		mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits updated CDWQG for Nitrate+Nitrite-N is the limit for nitrate only. Furbidity guideline based on membrane filtration. For gummary Table of Guidelines for Canadian Drinking Wate A blank entry designates no known limit. A shaded value in the Results column exceeds CDWQG	uidelines on co er Quality	Nitrate then the lin	ent and slow sand	N.D. = less than del d or diatomaceous e	lection limit. arth filtration ple	ase see
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Date: 11-OCT-17 PO No.: 0000132962 WO No.: L2000092

LSD: Project Ref:

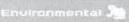
Sample ID: JOHN 101 DF

Sampled By:

Date Collected: 29-SEP-17 Lab Sample ID: L2000092-38

Matrix: WATER

Test Description	Result	Qualifier	Units of Measure	CDWQG MAC	Aesthetic Objective	Date Analyze
Fotal Metals						
Lead (Pb)-Total	0.000759		mg/L	0.01		06-OCT-
DWQG = Health Canada Guideline Limits updated	DECEMBER	2015				
CDWQG for Nitrate+Nitrite-N is the limit for nitrate onl Furbidity guideline based on membrane filtration. For ummary Table of Guidelines for Canadian Drinking W A blank entry designates no known limit. A shaded value in the Results column exceeds CDWC	guidelines on cor ater Quality	iventional treatm	ent and slow sand	N.D. = less than det or diatomaceous ea	ection limit. arth filtration ple	ase see
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## Guidelines & Objectives

## Health Canada MAC Health Related Criteria Limits

Nitrate/Nitrite-N\*

Criteria limit is 10 mg/L (1.0 mg/L if present as all Nitrite-N). High concentrations may contribute to blue baby syndrome in infants.

A cumulative body poison, uncommon in naturally occurring hard waters. Lead\*

Present in fluoridated water supplies at 0.8 mg/L to reduce dental caries. Elevated levels causes fluorosis (mottling of teeth).

Total Coliforms\* Criteria is 0 CFU/100mL. Adverse health effects.

Criteria is 0 CFU/100 mL. Certain E. Coli bacteria can be life threatening. E. Coli\*

\*Health Canada Canadian Drinking Water Quality Guidelines (MAC limit)

## **Aesthetic Objective Concentration Levels**

Fluoride\*

Alkalinity Acid neutralizing capacity. Usually a measure of carbonate and bicarbonates and calculated and reported as calcium carbonate.

Balance Quality control parameter ratioing cations to anions Bicarbonate See Alkalinity. Report as the anion HCO3-1

See Alkalinity. Reported at the anion CO3-2 Carbonate

Calcium See Hardness. Common major cation of water chemistry.

Common major anion of water chemistry. Chloride

Physical test measuring water salinity (dissolved ions or solids) Conductance

Hardness Classical measure or capacity of water to precipitate soap (chiefly calcium and magnesium ions). Causes scaling tendency in

water if carbonates/bicarbonates are present (if >200 mg/L). For drinking water purposes waters with results <200 mg/L are considered acceptable, results >200 mg/L are considered poor but can be tolerated. Results >500 mg/L are unacceptable.

Hydroxide

See hardness. Common major cation of water chemistry. Elevated levels (>125 mg/L) may exert a cathartic or diuretic action. Magnesium

Measure of water acidity/alkalinity. Normal range is 7.0-8.5.

Potassium Common major cation of water chemistry.

Common major cation of water chemistry. Measure of salinity (saltiness). Sodium

Sulphate Common major anion of water chemistry. Elevated levels may exert a cathartic or diuretic action.

A measure of water salinity. Total Dissolved Solids

Causes staining to laundry and porcelain and astringent taste. Oxidizes to red-brown precipitate on exposure to air.

Elevated levels may cause staining of laundry and porcelains Manganese Heterotrophic

Plate Count Criteria is 500 cfu/mL Measure of heterotrophic bacteria present.

## **GLOSSARY OF REPORT TERMS**

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample mg/kg wwt - milligrams per kilogram based on wet weight of sample mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight mg/L - unit of concentration based on volume, parts per million. < - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory. UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.