

ENVIRONMENTAL DYNAMICS INC.

ATTN: Meighan Kearns 2195 - 2nd Avenue

Whitehorse YT Y1A 3T8

Date Received: 13-FEB-14

Report Date: 18-FEB-14 17:24 (MT)

Version: FINAL

Client Phone: 867-393-4882

## **Certificate of Analysis**

Lab Work Order #: L1422440

Project P.O. #: NOT SUBMITTED

Job Reference: 13-Y-0452

C of C Numbers:

Legal Site Desc:

Can Dang Senior Account Manager

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ADDRESS: 8081 Lougheed Hwy, Suite 100, Burnaby, BC V5A 1W9 Canada | Phone: +1 604 253 4188 | Fax: +1 604 253 6700 ALS CANADA LTD Part of the ALS Group A Campbell Brothers Limited Company



L1422440 CONTD.... PAGE 2 of 7 18-FEB-14 17:24 (MT)

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Version: FINAL

	Sample ID Description Sampled Date Sampled Time Client ID	L1422440-1 Surface Water 13-FEB-14 09:50 R3	L1422440-2 Surface Water 13-FEB-14 11:10 X14		TIVAL
Grouping	Analyte				
WATER					
Physical Tests	Conductivity (uS/cm)	562	662		
	Hardness (as CaCO3) (mg/L)	326	385		
	pH (pH)	7.59	7.48		
	Total Suspended Solids (mg/L)	<1.0	1.2		
	Total Dissolved Solids (mg/L)	403	502		
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	172	188		
	Ammonia, Total (as N) (mg/L)	0.0500	0.0970		
	Chloride (CI) (mg/L)	<0.50	0.51		
	Fluoride (F) (mg/L)	0.136	0.161		
	Nitrate (as N) (mg/L)	0.241	0.226		
	Nitrite (as N) (mg/L)	<0.0010	<0.0010		
	Phosphorus (P)-Total (mg/L)	<0.0020	<0.0020		
	Sulfate (SO4) (mg/L)	171	234		
	Anion Sum (meq/L)	7.01	8.67		
	Cation Sum (meq/L)	6.90	8.28		
	Cation - Anion Balance (%)	-0.8	-2.3		
Organic / Inorganic Carbon	Dissolved Organic Carbon (mg/L)	1.29	1.39		
	Total Organic Carbon (mg/L)	1.35	1.26		
Total Metals	Aluminum (Al)-Total (mg/L)	0.0042	0.0137		
	Antimony (Sb)-Total (mg/L)	<0.00010	<0.00010		
	Arsenic (As)-Total (mg/L)	0.00020	0.00038		
	Barium (Ba)-Total (mg/L)	0.0721	0.0683		
	Beryllium (Be)-Total (mg/L)	<0.00010	<0.00010		
	Bismuth (Bi)-Total (mg/L)	<0.00050	<0.00050		
	Boron (B)-Total (mg/L)	<0.010	<0.010		
	Cadmium (Cd)-Total (mg/L)	0.000145	0.000325		
	Calcium (Ca)-Total (mg/L)	92.8	110		
	Chromium (Cr)-Total (mg/L)	0.00010	<0.00010		
	Cobalt (Co)-Total (mg/L)	0.00189	0.00411		
	Copper (Cu)-Total (mg/L)	<0.00050	<0.00050		
	Iron (Fe)-Total (mg/L)	0.211	0.768		
	Lead (Pb)-Total (mg/L)	0.000137	0.000216		
	Lithium (Li)-Total (mg/L)	0.00591	0.00805		
	Magnesium (Mg)-Total (mg/L)	20.1	25.2		
	Manganese (Mn)-Total (mg/L)	2.04	4.36		
	Molybdenum (Mo)-Total (mg/L)	0.000523	0.000723		

<sup>\*</sup> Please refer to the Reference Information section for an explanation of any qualifiers detected.

## ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID

Description

Client ID

**Sampled Date** Sampled Time

Grouping

**WATER Total Metals**  **Analyte** 

Nickel (Ni)-Total (mg/L)

Phosphorus (P)-Total (mg/L)

Potassium (K)-Total (mg/L)

Selenium (Se)-Total (mg/L)

Silicon (Si)-Total (mg/L)

Silver (Ag)-Total (mg/L)

Sodium (Na)-Total (mg/L)

Strontium (Sr)-Total (mg/L)

Thallium (TI)-Total (mg/L)

Iron (Fe)-Dissolved (mg/L)

Lead (Pb)-Dissolved (mg/L)

Lithium (Li)-Dissolved (mg/L)

Nickel (Ni)-Dissolved (mg/L)

Magnesium (Mg)-Dissolved (mg/L)

Manganese (Mn)-Dissolved (mg/L)

Molybdenum (Mo)-Dissolved (mg/L)

Phosphorus (P)-Dissolved (mg/L)

L1422440 CONTD.... PAGE 3 of 7 18-FEB-14 17:24 (MT) Version: **FINAL** L1422440-2 L1422440-1 Surface Water Surface Water 13-FEB-14 13-FEB-14 09:50 11:10 X14 R3 0.00525 0.00984 < 0.30 < 0.30 1.69 1.94 0.00039 0.00041 5.85 6.15 <0.000010 < 0.000010 5.58 7.22 0.300 0.366 < 0.000010 < 0.000010

		10.0000.0	10.0000.0	
	Tin (Sn)-Total (mg/L)	<0.00010	<0.00010	
	Titanium (Ti)-Total (mg/L)	<0.010	<0.010	
	Uranium (U)-Total (mg/L)	0.00281	0.00341	
	Vanadium (V)-Total (mg/L)	<0.0010	<0.0010	
	Zinc (Zn)-Total (mg/L)	0.258	0.526	
	Zirconium (Zr)-Total (mg/L)	<0.00080	<0.00080	
Dissolved Metals	Dissolved Metals Filtration Location	FIELD	FIELD	
	Aluminum (AI)-Dissolved (mg/L)	<0.0010	0.0016	
	Antimony (Sb)-Dissolved (mg/L)	<0.00010	<0.00010	
	Arsenic (As)-Dissolved (mg/L)	0.00013	0.00026	
	Barium (Ba)-Dissolved (mg/L)	0.0741	0.0692	
	Beryllium (Be)-Dissolved (mg/L)	<0.00010	<0.00010	
	Bismuth (Bi)-Dissolved (mg/L)	<0.00050	<0.00050	
	Boron (B)-Dissolved (mg/L)	<0.010	<0.010	
	Cadmium (Cd)-Dissolved (mg/L)	0.000156	0.000317	
	Calcium (Ca)-Dissolved (mg/L)	95.2	112	
	Chromium (Cr)-Dissolved (mg/L)	<0.00010	<0.00010	
	Cobalt (Co)-Dissolved (mg/L)	0.00191	0.00405	
	Copper (Cu)-Dissolved (mg/L)	0.00029	0.00030	

0.011

< 0.000050

0.00608

21.5

2.12

0.000525

0.00543

< 0.30

0.550

< 0.000050

0.00808

26.0

4.42

0.000717

0.00967

< 0.30

Potassium (K)-Dissolved (mg/L)	1.76	1.99
* Please refer to the Reference Information section for an explanation	of any qualifiers of	detected.

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## ALS ENVIRONMENTAL ANALYTICAL REPORT

Version: FINAL

	Sample ID Description	L1422440-1 Surface Water	L1422440-2 Surface Water		011.	
	Sampled Date Sampled Time Client ID	13-FEB-14 09:50 R3	13-FEB-14 11:10 X14			
Grouping	Analyte					
WATER						
Dissolved Metals	Selenium (Se)-Dissolved (mg/L)	0.00045	0.00045			
	Silicon (Si)-Dissolved (mg/L)	6.10	6.28			
	Silver (Ag)-Dissolved (mg/L)	<0.000010	<0.000010			
	Sodium (Na)-Dissolved (mg/L)	5.79	7.11			
	Strontium (Sr)-Dissolved (mg/L)	0.304	0.348			
	Thallium (TI)-Dissolved (mg/L)	<0.000010	<0.000010			
	Tin (Sn)-Dissolved (mg/L)	<0.00010	<0.00010			
	Titanium (Ti)-Dissolved (mg/L)	<0.010	<0.010			
	Uranium (U)-Dissolved (mg/L)	0.00280	0.00338			
	Vanadium (V)-Dissolved (mg/L)	<0.0010	<0.0010			
	Zinc (Zn)-Dissolved (mg/L)	0.268	0.528			
	Zirconium (Zr)-Dissolved (mg/L)	<0.00080	<0.00080			

<sup>\*</sup> Please refer to the Reference Information section for an explanation of any qualifiers detected.

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Version:

### **Reference Information**

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)	
Matrix Spike	Sulfate (SO4)	MS-B	L1422440-1, -2	
Matrix Spike	Sulfate (SO4)	MS-B	L1422440-1, -2	
Matrix Spike	Barium (Ba)-Dissolved	MS-B	L1422440-1, -2	
Matrix Spike	Calcium (Ca)-Dissolved	MS-B	L1422440-1, -2	
Matrix Spike	Magnesium (Mg)-Dissolved	MS-B	L1422440-1, -2	
Matrix Spike	Manganese (Mn)-Dissolved	MS-B	L1422440-1, -2	
Matrix Spike	Potassium (K)-Dissolved	MS-B	L1422440-1, -2	
Matrix Spike	Strontium (Sr)-Dissolved	MS-B	L1422440-1, -2	

#### **Qualifiers for Individual Parameters Listed:**

Qualifier Description

MS-B Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.

#### **Test Method References:**

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	EPA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

ANIONS-CL-IC-WR

WR Water Chloride by Ion Chromatography

EPA 300.1

EPA 300.1

This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.

ANIONS-F-IC-WR Water Fluoride by Ion Chromatography

This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.

ANIONS-NO2-IC-WR Water Nitrite Nitrogen by Ion Chromatography EPA 300.1

This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003. Nitrate is detected by UV absorbance.

ANIONS-NO3-IC-WR Water Nitrate Nitrogen by Ion Chromatography EPA 300.

This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003. Nitrate is detected by UV absorbance.

ANIONS-SO4-IC-WR Water Sulphate by Ion Chromatography EPA 300.

This analysis is carried out using procedures adapted from EPA Method 300.1, "Determination of Inorganic Anions by Ion Chromatography", Revision 1.0, April 1999 and from "Determination of Inorganic Anions in Environmental Waters Using a Hydroxide-Selective Column", Application Note 154 v.19, Dionex 2003.

CARBONS-DOC-VA Water Dissolved organic carbon by combustion APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)". Dissolved carbon (DOC) fractions are determined by filtering the sample through a 0.45 micron membrane filter prior to analysis.

CARBONS-TOC-VA Water Total organic carbon by combustion APHA 5310 TOTAL ORGANIC CARBON (TOC)

This analysis is carried out using procedures adapted from APHA Method 5310 "Total Organic Carbon (TOC)".

EC-MAN-WR Water Conductivity by Meter APHA 2510 (B)

This analysis is carried out using procedures adapted from APHA Method 2510 "Conductivity". Conductivity is determined using an electrode.

HARDNESS-CALC-VA Water Hardness APHA 2340B

Hardness (also known as Total Hardness) is calculated from the sum of Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. Dissolved Calcium and Magnesium concentrations are preferentially used for the hardness calculation.

IONBALANCE-VA Water Ion Balance Calculation APHA 1030E

Cation Sum, Anion Sum, and Ion Balance (as % difference) are calculated based on guidance from APHA Standard Methods (1030E Checking Correctness of Analysis). Because all aqueous solutions are electrically neutral, the calculated ion balance (% difference of cations minus anions) should be near-zero.

Cation and Anion Sums are the total meq/L concentration of major cations and anions. Dissolved species are used where available. Minor ions are included where data is present. Ion Balance is calculated as:

## **Reference Information**

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Ion Balance (%) = [Cation Sum-Anion Sum] / [Cation Sum+Anion Sum]

MET-D-CCMS-VA

Water

Dissolved Metals in Water by CRC ICPMS

APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

**MET-T-CCMS-VA** 

Water

Total Metals in Water by CRC ICPMS

APHA 3030 B&E / EPA SW-846 6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using hotblock, or filtration (APHA 3030B&E). Instrumental analysis is by collision cell inductively coupled plasma - mass spectrometry (modified from EPA Method 6020A).

NH3-F-VA

Water

Ammonia in Water by Fluorescence

J. ENVIRON. MONIT., 2005, 7, 37-42, RSC

This analysis is carried out, on sulfuric acid preserved samples, using procedures modified from J. Environ. Monit., 2005, 7, 37 - 42, The Royal Society of Chemistry, "Flow-injection analysis with fluorescence detection for the determination of trace levels of ammonium in seawater", Roslyn J. Waston et

P-T-COL-VA

Water

Total P in Water by Colour

APHA 4500-P Phosphorous

This analysis is carried out using procedures adapted from APHA Method 4500-P "Phosphorus". Total Phosphorous is determined colourimetrically after persulphate digestion of the sample.

PH-MAN-WR

Water

pH by Meter

APHA 4500-H (B)

"This analysis is carried out using procedures adapted from APHA Method 4500-H ""pH Value"". The pH is determined in the laboratory using a pH electrode."

TDS-CALC-VA

Water

TDS (Calculated)

APHA 1030E (20TH EDITION)

This analysis is carried out using procedures adapted from APHA 1030E "Checking Correctness of Analyses".

TSS-LOW-WR

Water

Total Suspended Solids by Grav. (1 mg/L)

APHA 254

This analysis is carried out using procedures adapted from APHA Method 2540 "Solids". Solids are determined gravimetrically. Total Suspended Solids are determined by filtering a sample through a glass fibre filter and drying the filter at 104 degrees celsius.

ZR-D-MS-VA

Water

Dissolved Zr in Water by ICPMS

EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

ZR-T-MS-VA

Water

Total Zr in Water by ICPMS

EPA SW-846 3005A/6020A

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven, or filtration (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).

\*\* ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

<b>Laboratory Definition Code</b>	Laboratory Location
WR	ALS ENVIRONMENTAL - WHITEHORSE, YUKON, CANADA
VA	ALS ENVIRONMENTAL - VANCOUVER, BRITISH COLUMBIA, CANADA

**Chain of Custody Numbers:** 

Reference Information

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#### **GLOSSARY OF REPORT TERMS**

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

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 of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

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.

# .S) Environmental

Chain of Custody / Analytical Requ Canada Toll Free: 1 800 668 9 www.alsglobal.com L1422440-COFC

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