

FORTUNE MINERALS LIMITED

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October 31, 2024

Ms. Anneli Jokela Regulatory Manager Wek'èezhii Land and Water Board #1-4905 48th St. Yellowknife, NT X1A 3S3

Dear Ms. Jokela,

Subject September 2024 SNP Summary Report Fortune Minerals Limited NICO Project Type A Water Licence: W2008L2-0004

Please accept this letter as our Surveillance Network Monitoring (SNP) summary report for September 2024. This report has been prepared to satisfy the following conditions of the water license:

The licensee shall within 30 days following the month being reported, submit to the Board all data and information required by the "Surveillance Network Program" including the results of the approved quality assurance plan.

Activities

The timing of mine development activities during 2024 and 2025 depends on the financing for the project. Until financing arrangements are finalized, activities at site will be limited to those outlined in the care and maintenance Land Use Permit (W2023C0001).

The Fortune Minerals Limited (Fortune) NICO Project camp site was opened September 10 to 12, 2024. The site was occupied for two days by two Fortune staff and one day by three Fortune staff and five engineering consultants.

The two Fortune staff completed regular duties including:

- a detailed inspection of all facilities at the site. No issues were observed;
- road maintenance (only minor erosion was observed);
- spill inspection. No new spills were observed;
- equipment maintenance including replacement of the batteries in the loader; and,

• collection of SNP samples.

It should be noted that Water Resource Officers inspection was completed on June 4th, 2024 and no major concerns were noted.

Fortune staff also collected cattails and sedges from a wetland on site (Photo 1) for later use in the constructed wetland treatment system pilot study. The cattails and sedges were transported in a cooler (Photo 2) to Maven Water & Environment in Saskatoon for storage in a growth chamber until needed.

The engineering consultants were escorted by two Fortune staff members to complete a tour of the site. A total of 400 kg of ore from the ore storage piles was collected from two of the piles for testing at SGS Lakefield (SGS). The engineers were able to examine ore samples during the collection process. To minimize disturbance to the ore covers, a small hole was cut into the side of the ore pile to extract the samples (Photo 3). The ore was placed in ore sample bags for transportation to Yellowknife and eventually to SGS. The holes were then repaired with a combination of fishing line to sew the seams, duct tape and roofing tar. Roofing tar has been successfully used to repair the ore pile covers in the past.

Water Quality Sampling and Analysis

Water samples were collected from SNP station 5-2 and SNP Station 5-5 on September 12; the analytical results can be found in Appendix I. No licensed parameters were exceeded.

A total of 5 m^3 of water was taken from Lou Lake for domestic use during the September site visit. Approximately, 95% was returned as grey water and 5% through the sewage system.

Flow and Volume Measurements

Flows from the portal at SNP 5-2 were average, estimated at 11 m³ per day.

The landfarm was inspected. It was last tested on August 26st, 2015 and the results showed that the landfarm was in compliance with all parameters for fine grained soils. No new material was added to the landfarm.

We trust that this letter and attachment are sufficient for the current requirements. Should you require clarification of some point or wish to discuss something, please contact the undersigned at your convenience.



Yours truly

FORTUNE MINERALS LIMITED

Rick Schryer, Ph.D. VP Environmental and Regulatory Affairs

cc. Clint Ambrose, GNWT Meaghan MacIntyre-Newell, GNWT Ian Ziemann, GNWT Karen Gignac, GNWT



PHOTOGRAPHS

PHOTO 1 Wetland used for cattail and sedge collection at the NICO site



PHOTO 2 Collected cattails and sedges







PHOTO 3 Ore sample collection

PHOTO 4 Ore sample collection hole repair





APPENDIX I

Water Quality Sampling Results SNP 5-2 and SNP 5-5 September 12, 2024

ALS Canada Ltd.



CERTIFICATE OF ANALYSIS									
Work Order	: YL2401470	Page	: 1 of 5						
Client	: Fortune Minerals Limited	Laboratory	: ALS Environmental - Yellowknife						
Contact	: Rick Schryer	Account Manager	: Oliver Gregg						
Address	148 Fullarton Street	Address	: 314 Old Airport Road, Unit 116						
	London ON Canada N6A 5P2		Yellowknife NT Canada X1A 3T3						
Telephone	: 306 230 3019	Telephone	: 1 867 445 7143						
Project	:	Date Samples Received	: 12-Sep-2024 15:40						
PO	: FML5055	Date Analysis Commenced	: 12-Sep-2024						
C-O-C number	:	Issue Date	: 20-Sep-2024 12:40						
Sampler	:								
Site	: NICO								
Quote number	: YL24-FMIN100-001								
No. of samples received	: 2								
No. of samples analysed	: 2								

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia
Monica Ko	Lab Assistant	Inorganics, Burnaby, British Columbia
Oliver Gregg	Client Services Supervisor	External Subcontracting, Yellowknife, Northwest Territories
Rosalie Van Deelen	Laboratory Assistant	Organics, Calgary, Alberta



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference. Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key :	CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
	LOR: Limit of Reporting (detection limit).

Unit	Description				
μS/cm	microsiemens per centimetre				
CFU/100mL	colony forming units per hundred millilitres				
mg/L	milligrams per litre				
NTU	nephelometric turbidity units				
pH units	pH units				

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior 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.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Analytical Results

Sub-Matrix: Water			C	lient sample ID	SNP 5-2	SNP 5-5	 	
(Matrix: Water)								
			Client samp	ling date / time	12-Sep-2024 09:00	12-Sep-2024 11:00	 	
Analyte	CAS Number	Method/Lab	LOR	Unit	YL2401470-001	YL2401470-002	 	
					Result	Result	 	
Physical Tests								
Conductivity		E100/VA	2.0	µS/cm	341	87.0	 	
Hardness (as CaCO3), from total Ca/Mg		EC100A/VA	0.50	mg/L	144		 	
рН		E108/VA	0.10	pH units	8.19	7.92	 	
Solids, total dissolved [TDS]		E162/VA	10	mg/L		52	 	
Solids, total suspended [TSS]		E160/VA	3.0	mg/L	<3.0	<3.0	 	
Turbidity		E121/VA	0.10	NTU	0.81		 	
Anions and Nutrients								
Ammonia, total (as N)	7664-41-7	E298/VA	0.0050	mg/L	0.0395	0.0106	 	
Microbiological Tests								
Coliforms, thermotolerant [fecal]		FC-MF/1Y	1.0	CFU/100mL		<1.0	 	
Total Metals (Undigested)								
Aluminum, total	7429-90-5	E470/VA	0.0010	mg/L	0.0114		 	
Antimony, total	7440-36-0	E470/VA	0.000020	mg/L	0.00313		 	
Arsenic, total	7440-38-2	E470/VA	0.000020	mg/L	0.0639		 	
Barium, total	7440-39-3	E470/VA	0.000020	mg/L	0.00986		 	
Beryllium, total	7440-41-7	E470/VA	0.0000050	mg/L	0.0000191		 	
Bismuth, total	7440-69-9	E470/VA	0.0000050	mg/L	0.0000708		 	
Boron, total	7440-42-8	E470/VA	0.0050	mg/L	0.0371		 	
Cadmium, total	7440-43-9	E470/VA	0.0000050	mg/L	0.0000108		 	
Calcium, total	7440-70-2	E470/VA	0.010	mg/L	43.3		 	
Cesium, total	7440-46-2	E470/VA	0.0000050	mg/L	0.000102		 	
Chromium, total	7440-47-3	E470/VA	0.00010	mg/L	0.00012		 	
Cobalt, total	7440-48-4	E470/VA	0.0000050	mg/L	0.000762		 	
Copper, total	7440-50-8	E470/VA	0.000050	mg/L	0.00713		 	
Gallium, total	7440-55-3		0.000050	mg/L	<0.000050		 	
Iron, total	7439-89-6	E470/VA	0.0010	mg/L	0.0897		 	
Lanthanum, total	7439-91-0		0.000010	mg/L	0.000036		 	
Lead, total	7439-92-1	E470/VA	0.000010	mg/L	0.000466		 	
Lithium, total	7439-93-2	E470/VA	0.00050	mg/L	0.00433		 	
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Analytical Results

Sub-Matrix: Water		Cli	ient sample ID	SNP 5-2	SNP 5-5	 	
(Matrix: Water)							
		Client samp	ling date / time	12-Sep-2024 09:00	12-Sep-2024 11:00	 	
Analyte	CAS Number Method/Lab	LOR	Unit	YL2401470-001	YL2401470-002	 	
				Result	Result	 	
Total Metals (Undigested)		0.00.10		0.00			
Magnesium, total	7439-95-4 E470/VA	0.0040	mg/L	8.80		 	
Manganese, total	7439-96-5 E470/VA	0.000050	mg/L	0.0105		 	
Molybdenum, total	7439-98-7 E470/VA	0.000050	mg/L	0.0139		 	
Nickel, total	7440-02-0 E470/VA	0.000050	mg/L	0.000797		 	
Niobium, total	7440-03-1 E470/VA	0.00010	mg/L	<0.00010		 	
Phosphorus, total	7723-14-0 E470/VA	0.050	mg/L	<0.050		 	
Potassium, total	7440-09-7 E470/VA	0.020	mg/L	2.55		 	
Rhenium, total	7440-15-5 E470/VA	0.0000050	mg/L	<0.000050		 	
Rubidium, total	7440-17-7 E470/VA	0.0000050	mg/L	0.00874		 	
Selenium, total	7782-49-2 E470/VA	0.000040	mg/L	0.000362		 	
Silicon, total	7440-21-3 E470/VA	0.050	mg/L	2.96		 	
Silver, total	7440-22-4 E470/VA	0.0000050	mg/L	<0.000050		 	
Sodium, total	7440-23-5 E470/VA	0.020	mg/L	12.6		 	
Strontium, total	7440-24-6 E470/VA	0.000020	mg/L	0.188		 	
Sulfur, total	7704-34-9 E470/VA	0.50	mg/L	18.9		 	
Tantalum, total	7440-25-7 E470/VA	0.00010	mg/L	<0.00010		 	
Tellurium, total	13494-80-9 E470/VA	0.000020	mg/L	<0.000020		 	
Thallium, total	7440-28-0 E470/VA	0.0000050	mg/L	0.0000247		 	
Thorium, total	7440-29-1 E470/VA	0.0000050	mg/L	0.0000316		 	
Tin, total	7440-31-5 E470/VA	0.000020	mg/L	0.000215		 	
Titanium, total	7440-32-6 E470/VA	0.000050	mg/L	0.000597		 	
Tungsten, total	7440-33-7 E470/VA	0.000010	mg/L	0.00140		 	
Uranium, total	7440-61-1 E470/VA	0.0000010	mg/L	0.0180		 	
Vanadium, total	7440-62-2 E470/VA	0.000050	mg/L	0.000226		 	
Yttrium, total	7440-65-5 E470/VA	0.000010	mg/L	0.000222		 	
Zinc, total	7440-66-6 E470/VA	0.00050	mg/L	0.0260		 	
Zirconium, total	7440-67-7 E470/VA	0.000010	mg/L	0.000257		 	
Aggregate Organics							
Biochemical oxygen demand [BOD]	BOD5/1Y	2.0	mg/L		3.0	 	
Oil & grease (gravimetric)	E567/CG	5.0	mg/L	<5.0		 	

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Work Order	:	YL2401470
Client	:	Fortune Minerals Limited
Project	:	



Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.



QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: YL2401470	Page	: 1 of 7
Client	Fortune Minerals Limited	Laboratory	: ALS Environmental - Yellowknife
Contact	: Rick Schryer	Account Manager	: Oliver Gregg
Address	: 148 Fullarton Street	Address	: 314 Old Airport Road, Unit 116
	London ON Canada N6A 5P2		Yellowknife, Northwest Territories Canada X1A 3T3
Telephone	: 306 230 3019	Telephone	: 1 867 445 7143
Project		Date Samples Received	: 12-Sep-2024 15:40
PO	: FML5055	Issue Date	: 20-Sep-2024 12:44
C-O-C number	:		
Sampler	:		
Site	: NICO		
Quote number	: YL24-FMIN100-001		
No. of samples received	:2		
No. of samples analysed	:2		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

• No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches) Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

• <u>No</u> Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Aatrix: Water					E٧	aluation: × =	Holding time exce	edance ; •	<pre>< = Within</pre>	Holding Tir
Analyte Group : Analytical Method	Method	Sampling Date	Ext	raction / Pi	reparation			Analysis		
Container / Client Sample ID(s)			Preparation	Holding Times		Eval	Analysis Date	Holding	g Times	Eval
			Date	Rec	Actual			Rec	Actual	
Aggregate Organics : Biochemical Oxygen Demand (BOD) 5-day										
HDPE [BOD HT-48h]										
SNP 5-5	BOD5	12-Sep-2024					13-Sep-2024	48 hrs	22 hrs	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid)										
SNP 5-2	E567	12-Sep-2024	18-Sep-2024	28	6 days	1	18-Sep-2024	28 days	6 days	1
				days						
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)										
SNP 5-2	E298	12-Sep-2024	17-Sep-2024	28	5 days	✓	17-Sep-2024	28 days	5 days	1
				days						
Anions and Nutrients : Ammonia by Fluorescence										
Amber glass total (sulfuric acid)										
SNP 5-5	E298	12-Sep-2024	17-Sep-2024	28	5 days	✓	17-Sep-2024	28 days	5 days	1
				days						
Microbiological Tests : Fecal Coliforms in Water by MF										
Sterile HDPE (Sodium thiosulphate)										
SNP 5-5	FC-MF	12-Sep-2024					12-Sep-2024	30 hrs	3 hrs	1
Physical Tests : Conductivity in Water				1			-			
HDPE	F 400	10.0 0001	40.0 0004			,	40.0 0004			,
SNP 5-2	E100	12-Sep-2024	16-Sep-2024	28	4 days	1	16-Sep-2024	28 days	4 days	~
				days						
Physical Tests : Conductivity in Water										
HDPE	F100	10 Cap 2004	10.0 0001		Calavia	1	40.0-= 0004		Zalavia	1
SNP 5-5	E100	12-Sep-2024	18-Sep-2024	28	6 days	*	19-Sep-2024	28 days	/ days	*
				days						



nalyte Group : Analytical Method	Method Sampling Date Extraction / Preparation							Analysis		
Container / Client Sample ID(s)		, ,	Preparation	Holding Times		Eval	Analysis Date	Holding Times		Eval
			Date	Rec	Actual	LVUI	Analysis Date	Rec	Actual	Lvar
hysical Tests : pH by Meter			Dute							
IDPE										
SNP 5-2	E108	12-Sep-2024	16-Sep-2024	0.25	103 hrs	×	16-Sep-2024	0.25	107 hrs	*
	2100	12 000 2021	10-000-2024	hrs	100 1113	EHTR-FM	10-000-2024	hrs	107 1113	EHTR-FI
				1110				1110		
hysical Tests : pH by Meter IDPE										
SNP 5-5	E108	12-Sep-2024	18-Sep-2024	0.25	144 hrs	×	19-Sep-2024	0.25	167 hrs	*
SINE 2-2	EIUO	12-3ep-2024	10-3ep-2024		144 1115	EHTR-FM	19-3ep-2024		107 115	EHTR-F
				hrs				hrs		EUIK-L
hysical Tests : TDS by Gravimetry				1						
IDPE										
SNP 5-5	E162	12-Sep-2024					19-Sep-2024	7 days	7 days	1
hysical Tests : TSS by Gravimetry										
IDPE										
SNP 5-2	E160	12-Sep-2024					18-Sep-2024	7 days	6 days	✓
hysical Tests : TSS by Gravimetry										
IDPE										
SNP 5-5	E160	12-Sep-2024					19-Sep-2024	7 days	7 days	1
hysical Tests : Turbidity by Nephelometry										
IDPE										
SNP 5-2	E121	12-Sep-2024					19-Sep-2024	3 days	7 days	*
								- ,		EHT
tel Matela (I Indignated) - Tatal Matela (undignated) in Materika ODO IODNO (Du	line Complex)			I						
otal Metals (Undigested) : Total Metals (undigested) in Water by CRC ICPMS (Pr	stine Samples)									
Pre-cleaned HDPE - total (lab preserved) SNP 5-2	E470	12-Sep-2024	18-Sep-2024	180	6 days	1	19-Sep-2024	180	7 days	1
SINF U-2	E470	12-3ep-2024	10-3ep-2024	180 days	ouays	•	19-3ep-2024	180 days	ruays	•

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Water		Evaluati	on: × = QC freque		ecification; 🗸 =		
Quality Control Sample Type				ount		Frequency (%)	
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Ammonia by Fluorescence	E298	1654700	1	20	5.0	5.0	✓
Conductivity in Water	E100	1657943	2	28	7.1	5.0	✓
pH by Meter	E108	1654184	2	39	5.1	5.0	✓
TDS by Gravimetry	E162	1659710	1	6	16.6	5.0	✓
Total Metals (undigested) in Water by CRC ICPMS (Pristine Samples)	E470	1656740	1	10	10.0	5.0	✓
TSS by Gravimetry	E160	1659711	2	32	6.2	5.0	✓
Turbidity by Nephelometry	E121	1660088	1	13	7.6	5.0	✓
Laboratory Control Samples (LCS)							
Ammonia by Fluorescence	E298	1654700	1	20	5.0	5.0	1
Conductivity in Water	E100	1657943	2	28	7.1	5.0	✓
Oil & Grease by Gravimetry	E567	1657431	1	7	14.2	5.0	1
pH by Meter	E108	1654184	2	39	5.1	5.0	✓
TDS by Gravimetry	E162	1659710	1	6	16.6	5.0	✓
Total Metals (undigested) in Water by CRC ICPMS (Pristine Samples)	E470	1656740	1	10	10.0	5.0	1
TSS by Gravimetry	E160	1659711	2	32	6.2	5.0	✓
Turbidity by Nephelometry	E121	1660088	1	13	7.6	5.0	✓
Method Blanks (MB)							
Ammonia by Fluorescence	E298	1654700	1	20	5.0	5.0	1
Conductivity in Water	E100	1657943	2	28	7.1	5.0	~
Oil & Grease by Gravimetry	E567	1657431	1	7	14.2	5.0	1
TDS by Gravimetry	E162	1659710	1	6	16.6	5.0	1
Total Metals (undigested) in Water by CRC ICPMS (Pristine Samples)	E470	1656740	1	10	10.0	5.0	1
TSS by Gravimetry	E160	1659711	2	32	6.2	5.0	✓
Turbidity by Nephelometry	E121	1660088	1	13	7.6	5.0	✓
Matrix Spikes (MS)							
Ammonia by Fluorescence	E298	1654700	1	20	5.0	5.0	✓
Total Metals (undigested) in Water by CRC ICPMS (Pristine Samples)	E470	1656740	1	10	10.0	5.0	1



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Biochemical Oxygen Demand (BOD) 5-day	BOD5	Water	SM5210B	Sample was diluted, seeded, and incubated at specified temperature for 5 days. Dissolved oxygen is measured initially and after incubation, and the BOD is computed
	Taiga Environmental			from the difference between initial and final DO.
	Laboratory - 4601 -			
	52nd Avenue P.O. BOX			
	1500 Yellowknife			
	Northwest Territories			
	Canada X1A 2R3			
Conductivity in Water	E100	Water	APHA 2510 (mod)	Conductivity, also known as Electrical Conductivity (EC) or Specific Conductance, is measured by immersion of a conductivity cell with platinum electrodes into a water
	ALS Environmental -			sample. Conductivity measurements are temperature-compensated to 25°C.
	Vancouver			
pH by Meter	E108	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally $20 \pm 5^{\circ}$ C). For high accuracy test results,
	ALS Environmental -			pH should be measured in the field within the recommended 15 minute hold time.
	Vancouver			
Turbidity by Nephelometry	E121	Water	APHA 2130 B (mod)	Turbidity is measured by the nephelometric method, by measuring the intensity of light scatter under defined conditions.
	ALS Environmental -			
	Vancouver			
TSS by Gravimetry	E160	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the
	ALS Environmental -			filtered solids. Samples containing very high dissolved solid content (i.e. seawaters,
	Vancouver			brackish waters) may produce a positive bias by this method. Alternate analysis
				methods are available for these types of samples.
TDS by Gravimetry	E162	Water	APHA 2540 C (mod)	Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at 180 ± 2°C for 16 hours or to constant weight,
	ALS Environmental -			with gravimetric measurement of the residue.
	Vancouver			
Ammonia by Fluorescence	E298	Water	Method Fialab 100,	Ammonia in water is determined by automated continuous flow analysis with membrane
,	2200		2018	diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde).
	ALS Environmental -		2010	This method is approved under US EPA 40 CFR Part 136 (May 2021)
	Vancouver			

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Project	÷	



Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Total Metals (undigested) in Water by CRC ICPMS (Pristine Samples)	E470 ALS Environmental - Vancouver	Water	EPA 6020B (mod)	Total metals in water are analyzed by Collision/Reaction Cell ICPMS. The detection limits provided can only be met for undigested samples. This procedure is intended for colorless, non-turbid, acid-preserved water samples (i.e. pristine water samples), having turbidity < 1 NTU and no odor. Where turbidity exceeds 1 NTU, and/or the sample is colored and has an odor, results may be biased low compared to true Total Metals concentrations. ALS recommends that turbidity analysis be requested on samples submitted for this test to aid with interpretation of results. Where turbidity is <1NTU, undigested metals are equivalent to total metals concentrations.
Oil & Grease by Gravimetry	E567 ALS Environmental - Calgary	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
Hardness (Calculated) from Total Ca/Mg	EC100A ALS Environmental - Vancouver	Water	APHA 2340B	"Hardness (as CaCO3), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO3 equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters.
Fecal Coliforms in Water by MF	FC-MF Taiga Environmental Laboratory - 4601 - 52nd Avenue P.O. BOX 1500 Yellowknife Northwest Territories Canada X1A 2R3	Water	APHA 9222D	See attached report.
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Preparation for Ammonia	EP298 ALS Environmental - Vancouver	Water		Sample preparation for Preserved Nutrients Water Quality Analysis.
Oil & Grease Extraction for Gravimetry	EP567 ALS Environmental - Calgary	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

ALS Canada Ltd.



QUALITY CONTROL REPORT

Work Order	¥L2401470	Page	: 1 of 11
Client	: Fortune Minerals Limited	Laboratory	: ALS Environmental - Yellowknife
Contact	: Rick Schryer	Account Manager	: Oliver Gregg
Address	: 148 Fullarton Street	Address	: 314 Old Airport Road, Unit 116
	London ON Canada N6A 5P2		Yellowknife, Northwest Territories Canada X1A 3T3
Telephone	: 306 230 3019	Telephone	:1 867 445 7143
Project		Date Samples Received	: 12-Sep-2024 15:40
PO	: FML5055	Date Analysis Commenced	: 12-Sep-2024
C-O-C number		Issue Date	: 20-Sep-2024 12:37
Sampler	:		
Site	: NICO		
Quote number	: YL24-FMIN100-001		
No. of samples received	: 2		
No. of samples analysed	: 2		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full. This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	Position	Laboratory Department
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia
Monica Ko	Lab Assistant	Vancouver Inorganics, Burnaby, British Columbia
Oliver Gregg	Client Services Supervisor	Taiga Environmental Laboratory External Subcontracting, Yellowknife, Northwest Territories
Rosalie Van Deelen	Laboratory Assistant	Calgary Organics, Calgary, Alberta

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Work Order	:	YL2401470
Client	:	Fortune Minerals Limited
Project	:	



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

ub-Matrix: Water							Labora	tory Duplicate (D	UP) Report		
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Physical Tests (QC	Lot: 1654184)										
VA24C4184-001	Anonymous	рН		E108	0.10	pH units	8.09	8.12	0.370%	4%	
Physical Tests (QC	Lot: 1654185)										
VA24C4184-001	Anonymous	Conductivity		E100	2.0	μS/cm	705	699	0.855%	10%	
Physical Tests (QC	Lot: 1657941)										
FJ2402774-003	Anonymous	pН		E108	0.10	pH units	8.14	8.12	0.246%	4%	
Physical Tests (QC	Lot: 1657943)										
FJ2402774-003	Anonymous	Conductivity		E100	2.0	µS/cm	625	630	0.797%	10%	
Physical Tests (QC	Lot: 1658478)										
VA24C4098-003	Anonymous	Solids, total suspended [TSS]		E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	
Physical Tests (QC	Lot: 1659710)										
VA24C4338-003	Anonymous	Solids, total dissolved [TDS]		E162	10	mg/L	376	374	0.667%	20%	
Physical Tests (QC	Lot: 1659711)										
VA24C4338-002	Anonymous	Solids, total suspended [TSS]		E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	
Physical Tests (QC	Lot: 1660088)										
VA24C4390-001	Anonymous	Turbidity		E121	0.10	NTU	8.41	8.62	2.47%	15%	
Anions and Nutrien	ts (QC Lot: 1654700)										
FJ2402738-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	0.0050	mg/L	0.312	0.316	1.17%	20%	
Total Metals (Undig	ested) (QC Lot: 1656	740)									
VA24C4260-001	Anonymous	Aluminum, total	7429-90-5	E470	0.0010	mg/L	0.386	0.402	4.02%	20%	
		Antimony, total	7440-36-0	E470	0.000020	mg/L	0.000023	0.000024	0.0000009	Diff <2x LOR	
		Arsenic, total	7440-38-2	E470	0.000020	mg/L	0.000573	0.000566	1.28%	20%	
		Barium, total	7440-39-3	E470	0.000020	mg/L	0.00510	0.00528	3.34%	20%	
		Beryllium, total	7440-41-7	E470	0.0000100	mg/L	0.0000197	0.0000180	0.0000017	Diff <2x LOR	
		Bismuth, total	7440-69-9	E470	0.0000050	mg/L	0.0000463	0.0000476	0.0000013	Diff <2x LOR	
		Boron, total	7440-42-8	E470	0.0050	mg/L	<0.0050	<0.0050	0	Diff <2x LOR	
		Cadmium, total	7440-43-9	E470	0.0000050	mg/L	0.0000157	0.0000190	0.0000033	Diff <2x LOR	
		Calcium, total	7440-70-2	E470	0.010	mg/L	9.71	9.93	2.26%	20%	
		Cesium, total	7440-46-2	E470	0.0000050	mg/L	0.000134	0.000140	4.37%	20%	
		Chromium, total	7440-47-3	E470	0.00010	mg/L	0.00026	0.00026	0.000008	Diff <2x LOR	
	1		1			-			1		

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ub-Matrix: Water						Laboratory Duplicate (DUP) Report					
aboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifie
· · · ·	ested) (QC Lot: 1656	740) - continued									
VA24C4260-001	Anonymous	Copper, total	7440-50-8	E470	0.000050	mg/L	0.00244	0.00252	3.24%	20%	
		Gallium, total	7440-55-3	E470	0.000050	mg/L	0.000124	0.000130	0.000006	Diff <2x LOR	
		Iron, total	7439-89-6	E470	0.0010	mg/L	0.449	0.463	3.02%	20%	
		Lanthanum, total	7439-91-0	E470	0.000010	mg/L	0.000132	0.000134	1.54%	20%	
		Lead, total	7439-92-1	E470	0.000010	mg/L	0.00118	0.00121	2.59%	20%	
		Lithium, total	7439-93-2	E470	0.00050	mg/L	0.00076	0.00078	0.00001	Diff <2x LOR	
		Magnesium, total	7439-95-4	E470	0.0100	mg/L	0.465	0.483	3.65%	20%	
		Manganese, total	7439-96-5	E470	0.000050	mg/L	0.0102	0.0104	2.36%	20%	
		Molybdenum, total	7439-98-7	E470	0.000050	mg/L	0.0266	0.0274	2.87%	20%	
		Nickel, total	7440-02-0	E470	0.000050	mg/L	0.000222	0.000240	0.000018	Diff <2x LOR	
		Niobium, total	7440-03-1	E470	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	
		Phosphorus, total	7723-14-0	E470	0.050	mg/L	<0.050	<0.050	0	Diff <2x LOR	
		Potassium, total	7440-09-7	E470	0.020	mg/L	0.448	0.468	4.33%	20%	
		Rhenium, total	7440-15-5	E470	0.0000050	mg/L	<0.0000050	<0.0000050	0	Diff <2x LOR	
		Rubidium, total	7440-17-7	E470	0.0000050	mg/L	0.00170	0.00176	3.22%	20%	
		Selenium, total	7782-49-2	E470	0.000040	mg/L	0.000352	0.000362	0.000009	Diff <2x LOR	
		Silicon, total	7440-21-3	E470	0.050	mg/L	2.45	2.46	0.309%	20%	
		Silver, total	7440-22-4	E470	0.0000050	mg/L	0.0000103	0.0000113	0.0000010	Diff <2x LOR	
		Sodium, total	7440-23-5	E470	0.020	mg/L	0.924	0.955	3.29%	20%	
		Strontium, total	7440-24-6	E470	0.000050	mg/L	0.0457	0.0470	2.82%	20%	
		Sulfur, total	7704-34-9	E470	0.50	mg/L	4.12	4.19	0.06	Diff <2x LOR	
		Tantalum, total	7440-25-7	E470	0.00010	mg/L	<0.00010	<0.00010	0	Diff <2x LOR	
		Tellurium, total	13494-80-9	E470	0.000020	mg/L	<0.000020	<0.000020	0	Diff <2x LOR	
		Thallium, total	7440-28-0	E470	0.0000050	mg/L	0.0000200	0.0000213	0.0000013	Diff <2x LOR	
		Thorium, total	7440-29-1	E470	0.0000050	mg/L	0.000152	0.000158	4.24%	20%	
		Tin, total	7440-31-5	E470	0.000050	mg/L	<0.000050	<0.000050	0	Diff <2x LOR	
		Titanium, total	7440-32-6	E470	0.000050	mg/L	0.0157	0.0157	0.190%	20%	
		Tungsten, total	7440-33-7	E470	0.000010	mg/L	0.000828	0.000853	2.97%	20%	
		Uranium, total	7440-61-1	E470	0.0000020	mg/L	0.000539	0.000530	1.56%	20%	
		Vanadium, total	7440-62-2	E470	0.000200	mg/L	0.00123	0.00123	0.000003	Diff <2x LOR	
		Yttrium, total	7440-65-5	E470	0.000010	mg/L	0.000217	0.000222	2.52%	20%	
		Zinc, total	7440-66-6	E470	0.00050	mg/L	0.00244	0.00250	0.00005	Diff <2x LOR	
		Zirconium, total	7440-67-7	E470	0.000010	mg/L	0.000026	0.000019	0.000007	Diff <2x LOR	



Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

ub-Matrix: Water							
Analyte	CAS Number	Method	LC	DR	Unit	Result	Qualifier
Physical Tests (QCLot: 1654185)							
Conductivity		E100		1	μS/cm	<1.0	
Physical Tests (QCLot: 1657943)							
Conductivity		E100		1	μS/cm	1.3	
Physical Tests (QCLot: 1658478)							
Solids, total suspended [TSS]		E160	:	3	mg/L	<3.0	
Physical Tests (QCLot: 1659710)							
Solids, total dissolved [TDS]		E162	1	0	mg/L	<10	
hysical Tests (QCLot: 1659711)							
Solids, total suspended [TSS]		E160	:	3	mg/L	<3.0	
Physical Tests (QCLot: 1660088)							
Turbidity		E121	0	.1	NTU	<0.10	
nions and Nutrients (QCLot: 16547	00)						
Ammonia, total (as N)	7664-41-7	E298	0.0	005	mg/L	<0.0050	
otal Metals (Undigested) (QCLot: 16	56740)						
Aluminum, total	7429-90-5	E470	0.0	001	mg/L	<0.0010	
Antimony, total	7440-36-0	E470	0.00	0002	mg/L	<0.000020	
Arsenic, total	7440-38-2	E470	0.00	0002	mg/L	<0.000020	
Barium, total	7440-39-3	E470	0.00	0002	mg/L	<0.000020	
Beryllium, total	7440-41-7	E470	0.00	0005	mg/L	<0.000050	
Bismuth, total	7440-69-9	E470	0.00	0005	mg/L	<0.000050	
Boron, total	7440-42-8	E470	0.0	005	mg/L	<0.0050	
Cadmium, total	7440-43-9	E470	0.00	0005	mg/L	<0.000050	
Calcium, total	7440-70-2	E470	0.	01	mg/L	<0.010	
Cesium, total	7440-46-2	E470	0.00	0005	mg/L	<0.000050	
Chromium, total	7440-47-3	E470	0.0	001	mg/L	<0.00010	
Cobalt, total	7440-48-4	E470	0.00	0005	mg/L	<0.0000050	
Copper, total	7440-50-8	E470	0.00	0005	mg/L	<0.000050	
Gallium, total	7440-55-3	E470	0.00	0005	mg/L	<0.000050	
Iron, total	7439-89-6	E470	0.0	001	mg/L	<0.0010	
Lanthanum, total	7439-91-0	E470	0.00	0001	mg/L	<0.000010	
Lead, total	7439-92-1	E470	0.00	0001	mg/L	<0.000010	

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Sub-Matrix: Water

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (Undigested) (QCLo	t: 1656740) - continued					
Lithium, total	7439-93-2	E470	0.0005	mg/L	<0.00050	
Magnesium, total	7439-95-4	E470	0.004	mg/L	<0.0040	
Manganese, total	7439-96-5	E470	0.00005	mg/L	<0.000050	
Molybdenum, total	7439-98-7	E470	0.00005	mg/L	<0.000050	
Nickel, total	7440-02-0	E470	0.00005	mg/L	<0.000050	
Niobium, total	7440-03-1	E470	0.0001	mg/L	<0.00010	
Phosphorus, total	7723-14-0	E470	0.05	mg/L	<0.050	
Potassium, total	7440-09-7	E470	0.02	mg/L	<0.020	
Rhenium, total	7440-15-5	E470	0.000005	mg/L	<0.000050	
Rubidium, total	7440-17-7	E470	0.000005	mg/L	<0.000050	
Selenium, total	7782-49-2	E470	0.00004	mg/L	<0.000040	
Silicon, total	7440-21-3	E470	0.05	mg/L	<0.050	
Silver, total	7440-22-4	E470	0.000005	mg/L	<0.000050	
Sodium, total	7440-23-5	E470	0.02	mg/L	<0.020	
Strontium, total	7440-24-6	E470	0.00002	mg/L	<0.000020	
Sulfur, total	7704-34-9	E470	0.5	mg/L	<0.50	
Tantalum, total	7440-25-7	E470	0.0001	mg/L	<0.00010	
Tellurium, total	13494-80-9	E470	0.00002	mg/L	<0.000020	
Thallium, total	7440-28-0	E470	0.000005	mg/L	<0.000050	
Thorium, total	7440-29-1	E470	0.000005	mg/L	<0.000050	
Tin, total	7440-31-5	E470	0.00002	mg/L	<0.000020	
Titanium, total	7440-32-6	E470	0.00005	mg/L	<0.000050	
Tungsten, total	7440-33-7	E470	0.00001	mg/L	<0.000010	
Uranium, total	7440-61-1	E470	0.000001	mg/L	<0.000010	
Vanadium, total	7440-62-2	E470	0.00005	mg/L	<0.000050	
Yttrium, total	7440-65-5	E470	0.00001	mg/L	<0.000010	
Zinc, total	7440-66-6	E470	0.0005	mg/L	<0.00050	
Zirconium, total	7440-67-7	E470	0.00001	mg/L	<0.000010	
Aggregate Organics (QCLot: 165	7431)					
Oil & grease (gravimetric)		E567	5	mg/L	<5.0	



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: Water				Laboratory Control Sample (LCS) Report					
					Spike	Recovery (%)	Recovery	Limits (%)	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 1654184)									
рН		E108		pH units	7 pH units	100	98.0	102	
Physical Tests (QCLot: 1654185)									
Conductivity		E100	1	μS/cm	147 µS/cm	96.2	90.0	110	
Physical Tests (QCLot: 1657941)									
рН		E108		pH units	7 pH units	100	98.0	102	
Physical Tests (QCLot: 1657943)		E 100		24	447.04	00.0	00.0	110	
Conductivity		E100	1	µS/cm	147 µS/cm	98.2	90.0	110	
Physical Tests (QCLot: 1658478) Solids, total suspended [TSS]		E160	3	mc/l	150 mg/L	91.3	85.0	115	
		E 160	3	mg/L	150 mg/L	91.5	65.0	115	
Physical Tests (QCLot: 1659710) Solids, total dissolved [TDS]		E162	10	mg/L	1000 mg/L	107	85.0	115	
		2102	10	ilig/E	1000 mg/L	107	00.0	110	
Physical Tests (QCLot: 1659711) Solids, total suspended [TSS]		E160	3	mg/L	150 mg/L	96.7	85.0	115	
					100 mg/2	0011	0010		
Physical Tests (QCLot: 1660088) Turbidity		E121	0.1	NTU	200 NTU	97.5	85.0	115	
,									
Anions and Nutrients (QCLot: 1654700)									
Ammonia, total (as N)	7664-41-7	E298	0.005	mg/L	0.2 mg/L	98.0	85.0	115	
Total Metals (Undigested) (QCLot: 1656740)									
Aluminum, total	7429-90-5		0.001	mg/L	2 mg/L	93.9	80.0	120	
Antimony, total	7440-36-0		0.00002	mg/L	1 mg/L	98.8	80.0	120	
Arsenic, total	7440-38-2		0.00002	mg/L	1 mg/L	105	80.0	120	
Barium, total	7440-39-3		0.00002	mg/L	0.25 mg/L	98.7	80.0	120	
Beryllium, total	7440-41-7		0.000005	mg/L	0.1 mg/L	94.6	80.0	120	
Bismuth, total	7440-69-9		0.000005	mg/L	1 mg/L	98.3	80.0	120	
Boron, total	7440-42-8		0.005	mg/L	1 mg/L	92.7	80.0	120	
Cadmium, total	7440-43-9		0.000005 0.01	mg/L	0.1 mg/L	98.1	80.0 80.0	120	
Calcium, total	7440-70-2 7440-46-2		0.000005	mg/L	50 mg/L	93.3 99.8	80.0 80.0	120 120	
Cesium, total	7440-46-2		0.00005	mg/L	0.05 mg/L 0.25 mg/L	99.8 93.6	80.0 80.0	120	
Chromium, total	7440-47-3		0.000005	mg/L	0.25 mg/L	93.0 93.0	80.0 80.0	120	
Cobalt, total	<i>i</i> 440-40-4		0.000005	mg/L	0.20 Mg/L	93.0	00.0	120	

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Sub-Matrix: Water					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery	Limits (%)	
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier
Fotal Metals (Undigested) (QCLot: 1656740) - continued									
Copper, total	7440-50-8	E470	0.00005	mg/L	0.25 mg/L	93.3	80.0	120	
Gallium, total	7440-55-3	E470	0.00005	mg/L	0.25 mg/L	100	80.0	120	
Iron, total	7439-89-6	E470	0.001	mg/L	1 mg/L	96.0	80.0	120	
Lanthanum, total	7439-91-0	E470	0.00001	mg/L	0.1 mg/L	103	80.0	120	
Lead, total	7439-92-1	E470	0.00001	mg/L	0.5 mg/L	98.1	80.0	120	
Lithium, total	7439-93-2	E470	0.0005	mg/L	0.25 mg/L	94.6	80.0	120	
Magnesium, total	7439-95-4	E470	0.004	mg/L	50 mg/L	91.6	80.0	120	
Manganese, total	7439-96-5	E470	0.00005	mg/L	0.25 mg/L	93.3	80.0	120	
Molybdenum, total	7439-98-7	E470	0.00005	mg/L	0.25 mg/L	94.4	80.0	120	
Nickel, total	7440-02-0	E470	0.00005	mg/L	0.5 mg/L	95.9	80.0	120	
Niobium, total	7440-03-1	E470	0.0001	mg/L	0.05 mg/L	103	80.0	120	
Phosphorus, total	7723-14-0	E470	0.05	mg/L	10 mg/L	103	80.0	120	
Potassium, total	7440-09-7	E470	0.02	mg/L	50 mg/L	93.7	80.0	120	
Rhenium, total	7440-15-5	E470	0.000005	mg/L	0.1 mg/L	102	80.0	120	
Rubidium, total	7440-17-7	E470	0.000005	mg/L	0.1 mg/L	92.0	80.0	120	
Selenium, total	7782-49-2	E470	0.00004	mg/L	1 mg/L	98.6	80.0	120	
Silicon, total	7440-21-3	E470	0.05	mg/L	10 mg/L	108	80.0	120	
Silver, total	7440-22-4	E470	0.000005	mg/L	0.1 mg/L	90.0	80.0	120	
Sodium, total	7440-23-5	E470	0.02	mg/L	50 mg/L	92.5	80.0	120	
Strontium, total	7440-24-6	E470	0.00002	mg/L	0.25 mg/L	92.5	80.0	120	
Sulfur, total	7704-34-9	E470	0.5	mg/L	50 mg/L	105	80.0	120	
Fantalum, total	7440-25-7	E470	0.0001	mg/L	0.1 mg/L	102	80.0	120	
Fellurium, total	13494-80-9	E470	0.00002	mg/L	0.1 mg/L	96.9	80.0	120	
Thallium, total	7440-28-0	E470	0.000005	mg/L	1 mg/L	98.4	80.0	120	
Γhorium, total	7440-29-1	E470	0.000005	mg/L	0.1 mg/L	101	80.0	120	
Γin, total	7440-31-5	E470	0.00002	mg/L	0.5 mg/L	99.9	80.0	120	
Titanium, total	7440-32-6	E470	0.00005	mg/L	0.25 mg/L	96.0	80.0	120	
Fungsten, total	7440-33-7	E470	0.00001	mg/L	0.1 mg/L	100	80.0	120	
Jranium, total	7440-61-1	E470	0.000001	mg/L	0.005 mg/L	102	80.0	120	
/anadium, total	7440-62-2	E470	0.00005	mg/L	0.5 mg/L	92.9	80.0	120	
Yttrium, total	7440-65-5	E470	0.00001	mg/L	0.1 mg/L	102	80.0	120	
Zinc, total	7440-66-6	E470	0.0005	mg/L	0.5 mg/L	92.6	80.0	120	
Zirconium, total	7440-67-7	E470	0.00001	mg/L	0.1 mg/L	96.9	80.0	120	
Aggregate Organics (QCLot: 16574	31)								
Oil & grease (gravimetric)		E567	5	mg/L	100 mg/L	114	70.0	130	

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Work Order	:	YL2401470
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Sub-Matrix: Water		Laboratory Control Sample (LCS) Report									
					Spike	Recovery (%)	Recovery	Limits (%)			
Analyte	CAS Number	Method	LOR	Unit	Target Concentration	LCS	Low	High	Qualifier		



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

b-Matrix: Water							Matrix Spik	e (MS) Report		
					Spi	ke	Recovery (%)	Recovery	Limits (%)	
boratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifie
ions and Nutrie	ents (QCLot: 16547	00)								
J2402760-001	Anonymous	Ammonia, total (as N)	7664-41-7	E298	ND mg/L		ND	75.0	125	
otal Metals (Und	igested) (QCLot: 10	656740)								
A24C4264-001	Anonymous	Aluminum, total	7429-90-5	E470	0.181 mg/L	0.2 mg/L	90.5	70.0	130	
		Antimony, total	7440-36-0	E470	0.0188 mg/L	0.02 mg/L	94.2	70.0	130	
		Arsenic, total	7440-38-2	E470	0.0208 mg/L	0.02 mg/L	104	70.0	130	
		Barium, total	7440-39-3	E470	0.0191 mg/L	0.02 mg/L	95.5	70.0	130	
		Beryllium, total	7440-41-7	E470	0.0386 mg/L	0.04 mg/L	96.4	70.0	130	
		Bismuth, total	7440-69-9	E470	0.00856 mg/L	0.01 mg/L	85.6	70.0	130	
		Boron, total	7440-42-8	E470	0.0913 mg/L	0.1 mg/L	91.3	70.0	130	
		Cadmium, total	7440-43-9	E470	0.00394 mg/L	0.004 mg/L	98.5	70.0	130	
		Calcium, total	7440-70-2	E470	ND mg/L		ND	70.0	130	
		Cesium, total	7440-46-2	E470	0.00961 mg/L	0.01 mg/L	96.1	70.0	130	
		Chromium, total	7440-47-3	E470	0.0364 mg/L	0.04 mg/L	91.0	70.0	130	
		Cobalt, total	7440-48-4	E470	0.0182 mg/L	0.02 mg/L	91.2	70.0	130	
		Copper, total	7440-50-8	E470	0.0183 mg/L	0.02 mg/L	91.6	70.0	130	
		Gallium, total	7440-55-3	E470	0.00257 mg/L	0.002 mg/L	103	70.0	130	
		Iron, total	7439-89-6	E470	1.87 mg/L	2 mg/L	93.6	70.0	130	
		Lanthanum, total	7439-91-0	E470	0.00260 mg/L	0.002 mg/L	104	70.0	130	
		Lead, total	7439-92-1	E470	0.0191 mg/L	0.02 mg/L	95.5	70.0	130	
		Lithium, total	7439-93-2	E470	0.0937 mg/L	0.1 mg/L	93.7	70.0	130	
		Magnesium, total	7439-95-4	E470	0.864 mg/L	1 mg/L	86.4	70.0	130	
		Manganese, total	7439-96-5	E470	0.0184 mg/L	0.02 mg/L	91.8	70.0	130	
		Molybdenum, total	7439-98-7	E470	0.0180 mg/L	0.02 mg/L	90.0	70.0	130	
		Nickel, total	7440-02-0	E470	0.0379 mg/L	0.04 mg/L	94.8	70.0	130	
		Niobium, total	7440-03-1	E470	0.00262 mg/L	0.002 mg/L	105	70.0	130	
		Phosphorus, total	7723-14-0	E470	10.0 mg/L	10 mg/L	100	70.0	130	
		Potassium, total	7440-09-7	E470	3.65 mg/L	4 mg/L	91.2	70.0	130	
		Rhenium, total	7440-15-5	E470	0.00254 mg/L	0.002 mg/L	102	70.0	130	
		Rubidium, total	7440-17-7	E470	0.0180 mg/L	0.02 mg/L	89.9	70.0	130	
		Selenium, total	7782-49-2	E470	0.0424 mg/L	0.04 mg/L	106	70.0	130	
		Silicon, total	7440-21-3	E470	9.39 mg/L	10 mg/L	93.9	70.0	130	
		Silver, total	7440-22-4	E470	0.00375 mg/L	0.004 mg/L	93.8	70.0	130	
		Sodium, total	7440-23-5	E470	1.77 mg/L	2 mg/L	88.4	70.0	130	
		Strontium, total	7440-23-5	E470	ND mg/L		ND	70.0	130	
		Sulfur, total	7704-34-9	E470	19.8 mg/L	20 mg/L	99.2	70.0	130	
		Tantalum, total	7440-25-7	E470	0.00248 mg/L	0.002 mg/L	99.2	70.0	130	
		Tellurium, total	13494-80-9	E470	0.0420 mg/L	0.002 mg/L	105	70.0	130	
		Thallium, total	7440-28-0	E470	0.00378 mg/L	0.004 mg/L	94.4	70.0	130	
		Thorium, total	7440-28-0	E470	0.0197 mg/L	0.004 mg/L 0.02 mg/L	94.4 98.4	70.0	130	

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Project	1	



Sub-Matrix: Water				Matrix Spike (MS) Report													
					Spi	ke	Recovery (%)	Recovery	Limits (%)								
aboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier							
otal Metals (Und	igested) (QCLot: 1	656740) - continued															
VA24C4264-001	Anonymous	Tin, total	7440-31-5	E470	0.0190 mg/L	0.02 mg/L	95.2	70.0	130								
		Titanium, total	7440-32-6	E470	0.0376 mg/L	0.04 mg/L	93.9	70.0	130								
		Tungsten, total	7440-33-7	E470	0.0192 mg/L	0.02 mg/L	96.2	70.0	130								
		Uranium, total	7440-61-1	E470	0.00395 mg/L	0.004 mg/L	98.8	70.0	130								
		Vanadium, total	7440-62-2	E470	0.0907 mg/L	0.1 mg/L	90.7	70.0	130								
		Yttrium, total	7440-65-5	E470	0.00261 mg/L	0.002 mg/L	104	70.0	130								
		Zinc, total	7440-66-6	E470	0.397 mg/L	0.4 mg/L	99.2	70.0	130								
		Zirconium, total	7440-67-7	E470	0.0383 mg/L	0.04 mg/L	95.7	70.0	130								

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-	ALS Enui	Report To	1		Phone: >06		Street: [617	Citv/Province:		Γ		Company: Fon	Contact: Rec	ALC Account # / Oucto #	ALS Account # / Quote #.	PO / AFE:	LSD:	ALS Lab Work Order # (lab use only):	ALS Sample # (lab use only)	1. A.	A second s			100 - 100 -		· · ·				Drinking Water (Are samples taken from a Regulated DW System?	Are samples for human consumption/ use?	YES K	

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

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