



CERTIFICATE OF ANALYSIS

<p>Work Order : KS2402203</p> <p>Client : Nicola Lakeshore Water Utility Co. Ltd.</p> <p>Contact : Kevin Rabbitt</p> <p>Address : 105 - 1121 McFarlane Way Merritt BC Canada V1K 1B9</p> <p>Telephone : 250 378 4206</p> <p>Project : Arsenic Plant B</p> <p>PO : ----</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Nicola Lakeshore Routine Tests</p> <p>No. of samples received : 1</p> <p>No. of samples analysed : 1</p>	<p>Page : 1 of 2</p> <p>Laboratory : ALS Environmental - Kamloops</p> <p>Account Manager : Ian Chen</p> <p>Address : 1445 McGill Road, Unit 2B Kamloops BC Canada V2C 6K7</p> <p>Telephone : +1 250 372 3588</p> <p>Date Samples Received : 12-Jun-2024 10:10</p> <p>Date Analysis Commenced : 15-Jun-2024</p> <p>Issue Date : 24-Jun-2024 09:58</p>
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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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kim Jensen	Department Manager - Metals	Metals, Burnaby, British Columbia



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
mg/L	milligrams per litre

<: 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					Client sample ID	Arsenic Plant Tank B	----	----	----	----
(Matrix: Water)					Client sampling date / time	12-Jun-2024 07:30	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	KS2402203-001	-----	-----	-----	-----	
Total Metals						Result	----	----	----	----
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00614	----	----	----	----	

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

<p>Work Order : KS2402203</p> <p>Client : Nicola Lakeshore Water Utility Co. Ltd.</p> <p>Contact : Kevin Rabbitt</p> <p>Address : 105 - 1121 McFarlane Way Merritt BC Canada V1K 1B9</p> <p>Telephone : 250 378 4206</p> <p>Project : Arsenic Plant B</p> <p>PO : ----</p> <p>C-O-C number : ----</p> <p>Sampler : ----</p> <p>Site : ----</p> <p>Quote number : Nicola Lakeshore Routine Tests</p> <p>No. of samples received : 1</p> <p>No. of samples analysed : 1</p>	<p>Page : 1 of 5</p> <p>Laboratory : ALS Environmental - Kamloops</p> <p>Account Manager : Ian Chen</p> <p>Address : 1445 McGill Road, Unit 2B Kamloops, British Columbia Canada V2C 6K7</p> <p>Telephone : +1 250 372 3588</p> <p>Date Samples Received : 12-Jun-2024 10:10</p> <p>Issue Date : 24-Jun-2024 10:01</p>
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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)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No 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.

Matrix: **Water** Evaluation: ✖ = Holding time exceedance ; ✔ = Within Holding Time

Analyte Group : Analytical Method Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times		Eval	Analysis Date	Holding Times		Eval
				Rec	Actual			Rec	Actual	
Total Metals : Total Metals in Water by CRC ICPMS										
HDPE - total (lab preserved) Arsenic Plant Tank B	E420	12-Jun-2024	15-Jun-2024	180 days	3 days	✔	19-Jun-2024	180 days	7 days	✔

Legend & Qualifier Definitions

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** Evaluation: ✖ = QC frequency outside specification; ✔ = QC frequency within specification.

Quality Control Sample Type	Method	QC Lot #	Count		Frequency (%)		
			QC	Regular	Actual	Expected	Evaluation
Analytical Methods							
Laboratory Duplicates (DUP)							
Total Metals in Water by CRC ICPMS	E420	1492546	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Total Metals in Water by CRC ICPMS	E420	1492546	1	20	5.0	5.0	✔
Method Blanks (MB)							
Total Metals in Water by CRC ICPMS	E420	1492546	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Total Metals in Water by CRC ICPMS	E420	1492546	1	20	5.0	5.0	✔



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
Total Metals in Water by CRC ICPMS	E420 ALS Environmental - Vancouver	Water	EPA 200.2/6020B (mod)	Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS. Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.



QUALITY CONTROL REPORT

Work Order	: KS2402203	Page	: 1 of 3
Client	: Nicola Lakeshore Water Utility Co. Ltd.	Laboratory	: ALS Environmental - Kamloops
Contact	: Kevin Rabbitt	Account Manager	: Ian Chen
Address	: 105 - 1121 McFarlane Way Merritt BC Canada V1K 1B9	Address	: 1445 McGill Road, Unit 2B Kamloops, British Columbia Canada V2C 6K7
Telephone	: 250 378 4206	Telephone	: +1 250 372 3588
Project	: Arsenic Plant B	Date Samples Received	: 12-Jun-2024 10:10
PO	: ----	Date Analysis Commenced	: 15-Jun-2024
C-O-C number	: ----	Issue Date	: 24-Jun-2024 10:01
Sampler	: ----		
Site	: ----		
Quote number	: Nicola Lakeshore Routine Tests		
No. of samples received	: 1		
No. of samples analysed	: 1		

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.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kim Jensen	Department Manager - Metals	Vancouver Metals, Burnaby, British Columbia



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).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	LOR	Unit	Original Result	Duplicate Result	RPD(%) or Difference	Duplicate Limits	Qualifier
Total Metals (QC Lot: 1492546)											
KS2402198-001	Anonymous	Arsenic, total	7440-38-2	E420	0.00010	mg/L	<0.00010	<0.00010	0	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.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Total Metals (QC Lot: 1492546)						
Arsenic, total	7440-38-2	E420	0.0001	mg/L	<0.00010	----



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
Total Metals (QCLot: 1492546)									
Arsenic, total	7440-38-2	E420	0.0001	mg/L	1 mg/L	114	80.0	120	----

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 \geq 1x spike level.

Sub-Matrix: **Water**

					Matrix Spike (MS) Report					
					Spike	Recovery (%)	Recovery Limits (%)			
Laboratory sample ID	Client sample ID	Analyte	CAS Number	Method	Concentration	Target	MS	Low	High	Qualifier
Total Metals (QCLot: 1492546)										
KS2402203-001	Arsenic Plant Tank B	Arsenic, total	7440-38-2	E420	0.0216 mg/L	0.02 mg/L	108	70.0	130	----



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Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here (lab use only)

COC Number: 15 -

Page of

Contact and company name below will appear on the final report

Company: Nicola Lakeshore Water Utility

Contact: 250-378-4176

Phone: Company address below will appear on the final report

Street: 106 1121 McFarlane Way

City/Province: Merritt, BC

Postal Code: V1K 1B9

Invoice To: Same as Report To

Company: Copy of Invoice with Report

Contact: Select Report Format: PDF EXCEL EDD (DIGITAL)

Quality Control (QC) Report with Report

Select Distribution: EMAIL MAIL FAX

Email 1 or Fax: small.companies@emiconservices.ca

Email 2: tibar@telus.net, jmike.mwu@emiconservices.ca

Email 3: katharine.monarara@interforhealth.ca

Select Invoice Distribution: EMAIL MAIL FAX

Email 1 or Fax: small.companies@emiconservices.ca

Email 2: tibar@telus.net

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requisitioner: Location:

ALS Account # / Quote #: Project Information

Job #: ALS Lab Work Order # (lab use only)

PO / AFE: KS2402203

LSD: ALS Sample #

Sample Identification and/or Coordinates

(This description will appear on the report)

Arsecnic Plant Tank B

Date: 12-Jun-24

Time: 7:30am

Sampler: Jeff Wike, Nikki Furlford

Sample Type: Water

Arsecnic Only

Number of Containers: 1

Drinking Water (DW) Samples (client use)

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below

Are samples taken from a Regulated DW System?

Are samples for human drinking water use?

SHIPMENT RELEASE (client use)

Released by: Date: 12-Jun-24

Time: Received by: Date: JUN 12 2024

Time: Received by: Date: JUN 12 2024

Select Service Level Below - Please confirm all E&P TATs with your AM - surcharges will apply

Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply

4 day [P4] 3 day [P3] 2 day [P2] 1 Business day [E1]

Same Day, Weekend or Statutory holiday [E0]

EMERGENCY

Date and Time Required for all E&P TATs:

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

Analysis Request

For tests that can not be performed according to the service level selected, you will be contacted.

Environmental Division

Kamloops

Work Order Reference

KS2402203

Barcode

Telephone: +1 250 372 3588

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen

Ice Packs

Cooling Initiated

INITIAL COOLER TEMPERATURES °C

FINAL COOLER TEMPERATURES °C

SIF Observations

Custody seal intact

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No



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Chain of Custody (COC) / Analytical Request Form

Affix ALS barcode label here
(lab use only)

COC Number: 15 - Page of

Contact and company name below will appear on the final report

Report To: Nicola Lakeshore Water Utility

Company: 250-378-4176

Phone: Company address below will appear on the final report

Street: 106 1121 McFarlane Way

City/Province: Merritt, BC

Postal Code: V1K 1B9

Invoice To: Same as Report To

Copy of Invoice with Report

Company: Project Information

ALS Account # / Quote #: K52402203

Job #: ALS Lab Work Order # (lab use only)

PO / AFE: Sample Identification and/or Coordinates

LSD: (This description will appear on the report)

ALS Sample # (lab use only)

Arsenic Plant Tank B

Sample Identification and/or Coordinates

Date: 12-Jun-24

Time: 7:30am

Sampler: Jeff Wike, Nikki Fulford

Sample Type: Water

Number of Containers: 1

Shipping Release (client use)

Initial Shipment Reception (lab use only)

White - Laboratory Copy

Yellow - Client Copy

Final Shipment Reception (lab use only)

Time: 12-Jun-24

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Report Format / Distribution

Select Report Format: PDF EXCEL EDD (DIGITAL)

Quality Control (QC) Report with Report YES NO

Compare Results to Criteria on Report - provide details below if box checked

Select Distribution: EMAIL MAIL FAX

Email 1 or Fax small.companies@emconservices.ca

Email 2 tibar@telus.net, wjke.nlwu@emconservices.ca

Email 3 katharine.mcmarrara@interiorhealth.ca

Invoice Distribution

Select Invoice Distribution: EMAIL MAIL FAX

Email 1 or Fax small.companies@emconservices.ca

Email 2 tibar@telus.net

Oil and Gas Required Fields (client use)

AFE/Cost Center: PO#

Major/Minor Code: Routing Code:

Requestioner: Location:

ALS Contact: ALS Account # / Quote #

Date: 12-Jun-24

Time: 7:30am

Sampler: Jeff Wike, Nikki Fulford

Sample Type: Water

Number of Containers: 1

Shipping Release (client use)

Initial Shipment Reception (lab use only)

White - Laboratory Copy

Yellow - Client Copy

Final Shipment Reception (lab use only)

Time: 12-Jun-24

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

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Received by: [Signature]

Date: [Signature]

Time: [Signature]

Received by: [Signature]

Date: [Signature]

Select Service Level Below - Please confirm all E&P TATs with your AM - surcharges will apply

Regular [R] Standard TAT if received by 3 pm - business days - no surcharges apply

4 day [P4] 3 day [P3] 2 day [P2]

EMERGENCY 1 Business day [E1] Same Day, Weekend or Statutory holiday [E0]

Date and Time Required for all E&P TATs:

For tests that can not be performed according to the service level selected, you will be contacted.

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below

Analysis Request

Analysis Request

Analysis Request

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Environmental Division
Kamloops
Work Order Reference
K52402203
Telephone : + 1 250 372 3598

Drinking Water (DW) Samples (client use)

Are samples taken from a Regulated DW System? YES NO

Are samples for human drinking water use? YES NO

SHIPPING RELEASE (client use)

Released by: [Signature]

Date: 12-Jun-24

Time: [Signature]

Received by: [Signature]

Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)

Initial Shipment Reception (lab use only)

White - Laboratory Copy

Yellow - Client Copy

Final Shipment Reception (lab use only)

Time: 12-Jun-24

Received by: [Signature]

Date: [Signature]

Sample Condition as Received (lab use only)

Frozen Ice Packs Ice Cubes Custody seal intact

SIF Observations Yes No

Initial Cooler Temperatures °C Final Cooler Temperatures °C

Time: 12-Jun-24

Received by: [Signature]

Date: [Signature]

Time: [Signature]

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