

CERTIFICATE OF ANALYSIS

Work Order	: WP2412351	Page	: 1 of 3
Client	: Gull Lake Basin Management Board	Laboratory	: ALS Environmental - Winnipeg
Contact	: David Cairns	Account Manager	:
Address	: Box 31, Grp 327, RR3 Beausejour MB Canada R0E 0C0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 204 799 1554	Telephone	: +1 204 255 9720
Project	: Gull Lake	Date Samples Received	: 21-May-2024 10:10
PO	: ----	Date Analysis Commenced	: 21-May-2024
C-O-C number	: ----	Issue Date	: 24-May-2024 16:02
Sampler	: ----		
Site	: Gull Lake		
Quote number	: Analytical Testing (2024)		
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 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
Jade Soliman		Microbiology, Winnipeg, Manitoba
Jeremy Byrnes	Senior Analyst	Limnology, Winnipeg, Manitoba
Rhovee Guevarra		Inorganics, Winnipeg, Manitoba



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
ct/sample	counts per sample
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres

<: 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.

Sample Comments

Sample	Client Id	Comment
WP2412351-001	GLBMB	No Zebra Mussel Veligers observed in the sample.



Analytical Results

Sub-Matrix: Lake Water					Client sample ID	GLBMB	----	----	----	----
(Matrix: Water)										
					Client sampling date / time	20-May-2024 16:00	----	----	----	----
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2412351-001	-----	-----	-----	-----	
					Result	----	----	----	----	
Anions and Nutrients										
Kjeldahl nitrogen, total [TKN]	----	E318/WP	0.050	mg/L	1.78	----	----	----	----	
Nitrate (as N)	14797-55-8	E235.NO3/WP	0.020	mg/L	<0.020	----	----	----	----	
Nitrate + Nitrite (as N)	----	EC235.N+N/W P	0.0050	mg/L	<0.0224	----	----	----	----	
Nitrite (as N)	14797-65-0	E235.NO2/WP	0.010	mg/L	<0.010	----	----	----	----	
Nitrogen, total	7727-37-9	EC368/WP	0.050	mg/L	1.78	----	----	----	----	
Phosphorus, total	7723-14-0	E372-U/WP	0.0020	mg/L	0.0196	----	----	----	----	
Microbiological Tests										
Coliforms, total	----	E010.QT97/W P	1	MPN/100mL	47	----	----	----	----	
Coliforms, Escherichia coli [E. coli]	----	E010.QT97/W P	1	MPN/100mL	1	----	----	----	----	
Taxonomy										
Zebra mussel veliger	----	E920A/WP	1	ct/sample	<1	----	----	----	----	

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	: WP2412351	Page	: 1 of 6
Client	: Gull Lake Basin Management Board	Laboratory	: ALS Environmental - Winnipeg
Contact	: David Cairns	Account Manager	:
Address	: Box 31, Grp 327, RR3 Beausejour MB Canada R0E 0C0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
Telephone	: 204 799 1554	Telephone	: +1 204 255 9720
Project	: Gull Lake	Date Samples Received	: 21-May-2024 10:10
PO	: ----	Issue Date	: 24-May-2024 15:43
C-O-C number	: ----		
Sampler	: ----		
Site	: Gull Lake		
Quote number	: Analytical Testing (2024)		
No. of samples received	: 1		
No. of samples analysed	: 1		

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

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



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	
Anions and Nutrients : Nitrate in Water by IC										
HDPE GLBMB	E235.NO3	20-May-2024	21-May-2024	3 days	1 days	✓	21-May-2024	3 days	1 days	✓
Anions and Nutrients : Nitrite in Water by IC										
HDPE GLBMB	E235.NO2	20-May-2024	21-May-2024	3 days	1 days	✓	21-May-2024	3 days	1 days	✓
Anions and Nutrients : Total Kjeldahl Nitrogen by Fluorescence (Low Level)										
Amber glass total (sulfuric acid) GLBMB	E318	20-May-2024	22-May-2024	28 days	2 days	✓	22-May-2024	28 days	2 days	✓
Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)										
Amber glass total (sulfuric acid) GLBMB	E372-U	20-May-2024	22-May-2024	28 days	2 days	✓	23-May-2024	28 days	3 days	✓
Microbiological Tests : Total Coliforms and E. coli (Enzyme Substrate, 97 Well Tray)										
Sterile HDPE (Sodium thiosulphate) GLBMB	E010.QT97	20-May-2024	----	----	----		21-May-2024	30 hrs	25 hrs	✓
Taxonomy : Zebra Mussel veliger										
HDPE (70% ethanol) GLBMB	E920A	20-May-2024	----	----	----		22-May-2024	----	2 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			Count		Frequency (%)		
Analytical Methods	Method	QC Lot #	QC	Regular	Actual	Expected	Evaluation
Laboratory Duplicates (DUP)							
Nitrate in Water by IC	E235.NO3	1452671	1	4	25.0	5.0	✔
Nitrite in Water by IC	E235.NO2	1452672	1	4	25.0	5.0	✔
Total Coliforms and E. coli (Enzyme Substrate, 97 Well Tray)	E010.QT97	1452084	0	2	0.0	5.0	✖
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1452879	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1454815	1	20	5.0	5.0	✔
Laboratory Control Samples (LCS)							
Nitrate in Water by IC	E235.NO3	1452671	1	4	25.0	5.0	✔
Nitrite in Water by IC	E235.NO2	1452672	1	4	25.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1452879	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1454815	1	20	5.0	5.0	✔
Method Blanks (MB)							
Nitrate in Water by IC	E235.NO3	1452671	1	4	25.0	5.0	✔
Nitrite in Water by IC	E235.NO2	1452672	1	4	25.0	5.0	✔
Total Coliforms and E. coli (Enzyme Substrate, 97 Well Tray)	E010.QT97	1452084	1	2	50.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1452879	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1454815	1	20	5.0	5.0	✔
Matrix Spikes (MS)							
Nitrate in Water by IC	E235.NO3	1452671	1	4	25.0	5.0	✔
Nitrite in Water by IC	E235.NO2	1452672	1	4	25.0	5.0	✔
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318	1452879	1	15	6.6	5.0	✔
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U	1454815	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 Coliforms and E. coli (Enzyme Substrate, 97 Well Tray)	E010.QT97 ALS Environmental - Winnipeg	Water	APHA 9223 (mod)	The enzyme substrate test simultaneously detects Total Coliforms and E. coli in a 100 mL sample after incubation at 35.0 ±0.5°C for either 18 or 24 hours (dependent on reagent used). This method uses the 97 well Quanti-Tray.
Nitrite in Water by IC	E235.NO2 ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Nitrate in Water by IC	E235.NO3 ALS Environmental - Winnipeg	Water	EPA 300.1 (mod)	Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection.
Total Kjeldahl Nitrogen by Fluorescence (Low Level)	E318 ALS Environmental - Winnipeg	Water	Method Fialab 100, 2018	TKN in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021).
Total Phosphorus by Colourimetry (0.002 mg/L)	E372-U ALS Environmental - Winnipeg	Water	APHA 4500-P E (mod).	Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample.
Zebra Mussel veliger	E920A ALS Environmental - Winnipeg	Water	APHA 10500 (mod)	Microscopic techniques are used to identify and enumerate the target organisms. A result of <1 indicates that no target organisms were observed.
Nitrate and Nitrite (as N) (Calculation)	EC235.N+N ALS Environmental - Winnipeg	Water	EPA 300.0	Nitrate and Nitrite (as N) is a calculated parameter. Nitrate and Nitrite (as N) = Nitrite (as N) + Nitrate (as N).
Total Nitrogen (calculation)	EC368 ALS Environmental - Winnipeg	Water	BC MOE LABORATORY MANUAL (2005)	Total Nitrogen is a calculated parameter. Total Nitrogen = Total Kjeldahl Nitrogen + [Nitrate and Nitrite (as N)].
Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for TKN in water	EP318 ALS Environmental - Winnipeg	Water	APHA 4500-Norg D (mod)	Samples are digested at high temperature using Sulfuric Acid with Copper catalyst, which converts organic nitrogen sources to Ammonia, which is then quantified by the analytical method as TKN. This method is unsuitable for samples containing high levels of nitrate. If nitrate exceeds TKN concentration by ten times or more, results may be biased low.



Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Digestion for Total Phosphorus in water	EP372 ALS Environmental - Winnipeg	Water	APHA 4500-P E (mod).	Samples are heated with a persulfate digestion reagent.

QUALITY CONTROL REPORT

Work Order	: WP2412351	Page	: 1 of 4
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Address	: Box 31, Grp 327, RR3 Beausejour MB Canada R0E 0C0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
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Quote number	: Analytical Testing (2024)		
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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.

Signatories	Position	Laboratory Department
Jade Soliman		Winnipeg Microbiology, Winnipeg, Manitoba
Jeremy Byrnes	Senior Analyst	Winnipeg Limnology, Winnipeg, Manitoba
Rhovee Guevarra		Winnipeg Inorganics, Winnipeg, Manitoba



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
Anions and Nutrients (QC Lot: 1452671)											
WP2412337-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	0.020	mg/L	0.134	0.134	0.0001	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1452672)											
WP2412337-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.010	mg/L	<0.010	<0.010	0	Diff <2x LOR	----
Anions and Nutrients (QC Lot: 1452879)											
WP2412188-001	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	2.50	mg/L	33.5	34.2	2.05%	20%	----
Anions and Nutrients (QC Lot: 1454815)											
WP2412238-001	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.0020	mg/L	0.0127	0.0136	0.0009	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
Anions and Nutrients (QCLot: 1452671)						
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	<0.020	----
Anions and Nutrients (QCLot: 1452672)						
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	<0.010	----
Anions and Nutrients (QCLot: 1452879)						
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	<0.050	----
Anions and Nutrients (QCLot: 1454815)						
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	<0.0020	----
Microbiological Tests (QCLot: 1452084)						
Coliforms, Escherichia coli [E. coli]	----	E010.QT97	1	MPN/100mL	<1	----
Coliforms, total	----	E010.QT97	1	MPN/100mL	<1	----

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
Anions and Nutrients (QCLot: 1452671)									
Nitrate (as N)	14797-55-8	E235.NO3	0.02	mg/L	2.5 mg/L	98.6	90.0	110	----
Anions and Nutrients (QCLot: 1452672)									
Nitrite (as N)	14797-65-0	E235.NO2	0.01	mg/L	0.5 mg/L	101	90.0	110	----
Anions and Nutrients (QCLot: 1452879)									
Kjeldahl nitrogen, total [TKN]	----	E318	0.05	mg/L	4 mg/L	102	75.0	125	----
Anions and Nutrients (QCLot: 1454815)									
Phosphorus, total	7723-14-0	E372-U	0.002	mg/L	0.5 mg/L	98.5	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 >= 1x spike level.

Laboratory sample ID					Matrix Spike (MS) Report				
					Spike		Recovery (%)	Recovery Limits (%)	
					Concentration	Target	MS	Low	High
Client sample ID	Analyte	CAS Number	Method						Qualifier
Anions and Nutrients (QCLot: 1452671)									
WP2412337-001	Anonymous	Nitrate (as N)	14797-55-8	E235.NO3	2.46 mg/L	2.5 mg/L	98.4	75.0	125
Anions and Nutrients (QCLot: 1452672)									
WP2412337-001	Anonymous	Nitrite (as N)	14797-65-0	E235.NO2	0.504 mg/L	0.5 mg/L	101	75.0	125
Anions and Nutrients (QCLot: 1452879)									
WP2412258-001	Anonymous	Kjeldahl nitrogen, total [TKN]	----	E318	2.47 mg/L	2.5 mg/L	98.8	70.0	130
Anions and Nutrients (QCLot: 1454815)									
WP2412238-002	Anonymous	Phosphorus, total	7723-14-0	E372-U	0.251 mg/L	0.25 mg/L	100	70.0	130

ENTERED IN LIMS BY: _____

Sample Intake					
Client: GULL 100					
Cheque Enclosed with CoC	Yes	No			
Priority/Emergency Required (circle one)	Yes	No			
Time Sensitive Hold Time (circle one)	Yes	No			
Matrix (circle one)	Water	Soil/solid	Air	Biota	Other
# of Bottles received:					
Green/White	1x250	Yellow/Black			
Purple/White	1x100	Light blue/White	2x125 1x250		
Warm red/White		Orange/Black			
Dark Green/White		Dark Blue/White			
Grey/black		Black/white			
Other:					
Additional Comments:					

Login Check	Check yes if you have verified the following:	
	Yes	N/A
Received date/time	✓	
Project/PO/LSD	✓	
Quote/Office match CoC	✓	
Sample IDs/Description	✓	
Sample Date/time	✓	
Sales Items as per CoC	✓	
Express Due Dates		✓
Client due date matches	✓	
ALS Due date	✓	
Client recipient emails	✓	
Guidelines/thresholds added		✓
Billing/payment recorded		✓
Field data entered		✓
Sub-contracting Forms Printed		✓
SUBCO/Chromatograph added to client contacts for required analysis		✓
Are sub-samples required?		✓
Has a SIF been submitted for this WO?		✓
Has the SIF been resolved?		✓

- quote updated
 - non-compliant submission for zebra mussel
 - CoC + sample labels don't match