



## CERTIFICATE OF ANALYSIS

<p><b>Work Order</b> : <b>WP2503276</b></p> <p><b>Client</b> : <b>Government of Manitoba - Transportation and Infrastructure</b></p> <p><b>Contact</b> : Scott Johnstone</p> <p><b>Address</b> : 1520 - 215 Garry Street Winnipeg MB Canada R3C 3P3</p> <p><b>Telephone</b> : ----</p> <p><b>Project</b> : ----</p> <p><b>PO</b> : CONS No:15744 ESP CSAF No: 2017-13-WMS-O</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : ----</p> <p><b>Site</b> : ----</p> <p><b>Quote number</b> : Mould in Swab</p> <p><b>No. of samples received</b> : 2</p> <p><b>No. of samples analysed</b> : 2</p>	<p><b>Page</b> : 1 of 2</p> <p><b>Laboratory</b> : ALS Environmental - Winnipeg</p> <p><b>Account Manager</b> : Judy Dalmaijer</p> <p><b>Address</b> : 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4</p> <p><b>Telephone</b> : +1 204 255 9720</p> <p><b>Date Samples Received</b> : 12-Mar-2025 09:20</p> <p><b>Date Analysis Commenced</b> : 21-Mar-2025</p> <p><b>Issue Date</b> : 21-Mar-2025 12:21</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>
Jeremy Byrnes	Senior Analyst	Limnology, 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
-	no 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: Swab (Matrix: Wipe)					Client sample ID	Bedroom	Kitchen	----	----	----
Client sampling date / time					11-Mar-2025 11:03	11-Mar-2025 11:05	----	----	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2503276-001	WP2503276-002	-----	-----	-----	
					Result	Result	----	----	----	
<b>Molds</b>										
Mold	----	E933.A/WP	-	-	See Attached.	See Attached.	----	----	----	

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



## QUALITY CONTROL INTERPRETIVE REPORT

<p><b>Work Order</b> : <b>WP2503276</b></p> <p><b>Client</b> : <b>Government of Manitoba - Transportation and Infrastructure</b></p> <p><b>Contact</b> : Scott Johnstone</p> <p><b>Address</b> : 1520 - 215 Garry Street Winnipeg MB Canada R3C 3P3</p> <p><b>Telephone</b> : ----</p> <p><b>Project</b> : ----</p> <p><b>PO</b> : CONS No:15744 ESP CSAF No: 2017-13-WMS-O</p> <p><b>C-O-C number</b> : ----</p> <p><b>Sampler</b> : ----</p> <p><b>Site</b> : ----</p> <p><b>Quote number</b> : Mould in Swab</p> <p><b>No. of samples received</b> : 2</p> <p><b>No. of samples analysed</b> : 2</p>	<p><b>Page</b> : 1 of 4</p> <p><b>Laboratory</b> : ALS Environmental - Winnipeg</p> <p><b>Account Manager</b> : Judy Dalmajjer</p> <p><b>Address</b> : 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4</p> <p><b>Telephone</b> : +1 204 255 9720</p> <p><b>Date Samples Received</b> : 12-Mar-2025 09:20</p> <p><b>Issue Date</b> : 21-Mar-2025 12:21</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 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: **Wipe** 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	
<b>Molds : Fungi/Mold - Genera</b>										
<b>Sterile wipe</b> Bedroom	E933.A	11-Mar-2025	----	----	----		21-Mar-2025	----	10 days	
<b>Molds : Fungi/Mold - Genera</b>										
<b>Sterile wipe</b> Kitchen	E933.A	11-Mar-2025	----	----	----		21-Mar-2025	----	10 days	

### Legend & Qualifier Definitions

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



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## *Quality Control Parameter Frequency Compliance*

- No Quality Control data available for this section.



## 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
Fungi/Mold - Genera	E933.A ALS Environmental - Winnipeg	Wipe	Intro to Food Borne Fungi, R.A. Samson (mod)	Microscopic techniques are used to identify and enumerate spores and other structures based on taxonomic keys. Results are reported to the genus level.

## QUALITY CONTROL REPORT

<b>Work Order</b>	<b>: WP2503276</b>	<b>Page</b>	: 1 of 2
<b>Client</b>	: Government of Manitoba - Transportation and Infrastructure	<b>Laboratory</b>	: ALS Environmental - Winnipeg
<b>Contact</b>	: Scott Johnstone	<b>Account Manager</b>	: Judy Dalmaijer
<b>Address</b>	: 1520 - 215 Garry Street Winnipeg MB Canada R3C 3P3	<b>Address</b>	: 1329 Niakwa Road East, Unit 12 Winnipeg, Manitoba Canada R2J 3T4
<b>Telephone</b>	: ----	<b>Telephone</b>	: +1 204 255 9720
<b>Project</b>	: ----	<b>Date Samples Received</b>	: 12-Mar-2025 09:20
<b>PO</b>	: CONS No:15744 ESP CSAF No: 2017-13-WMS-O	<b>Date Analysis Commenced</b>	: 21-Mar-2025
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<b>Sampler</b>	: ----		
<b>Site</b>	: ----		
<b>Quote number</b>	: Mould in Swab		
<b>No. of samples received</b>	: 2		
<b>No. of samples analysed</b>	: 2		

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<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Jeremy Byrnes	Senior Analyst	Winnipeg Limnology, Winnipeg, Manitoba

Page : 2 of 2  
Work Order : WP2503276  
Client : Government of Manitoba - Transportation and Infrastructure  
Project : ---



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## 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.

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## Results of Analysis

<b>Sample Number</b>	<b>Client ID</b>	<b>Genus</b>	<b>Total Colonies</b>	<b>CFU/cm2</b>
WP2503276-1	Bedroom	Total	133	665
WP2503276-1	Bedroom	Aspergillus	33	165
WP2503276-1	Bedroom	Cladosporium	77	385
WP2503276-1	Bedroom	Penicillium	8	40
WP2503276-1	Bedroom	Ulocladium	15	75
WP2503276-2	Kitchen	Total	166	3320
WP2503276-2	Kitchen	Cladosporium	32	640
WP2503276-2	Kitchen	Aspergillus	134	2680



www.alsglobal.com

Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

COC Number: 23 - 109N678

Page 1 of 1

Environmental Division  
Winnipeg  
Work Order Reference  
WP2503276



Telephone : +1 204 255 9720

Contact and company name below will appear on the final report

Company: Manitoba Transportation and Infrastructure

Contact: Scott Johnston

Phone: 204 619-5285

Company address below will appear on the final report

Street: 1520-215 Garry St.

City/Province: Winnipeg, MB

Postal Code: R3C 3T5

Invoice To: Same as Report To

Copy of Invoice with Report:  YES  NO

Company:

Contact:

Project Information

ALS Client Code / QUOTE #: 1510 EQ334

Job / Project #:

PO / AFE:

LSD:

ALS Lab Work Order # (ALS use only):

Reports / Recipients

Select Report Format:  PDF  EXCEL  BDD (DIGITAL)

Merge QC/QCII Reports with COA  YES  NO  N/A

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

Select Distribution:  EMAIL  MAIL  FAX

Email 1 or Fax: Scott.Johnstone@gov.mb.ca

Email 2

Email 3

Select Invoice Distribution:  EMAIL  MAIL  FAX

Email 1 or Fax

Email 2

Oil and Gas Required Fields (client use)

AFCast Center:

Major/Minor Code:

Requisitioner:

Location:

ALS Contact:

Sampler: J.H.

Turnaround Time (TAT) Requested

4 day [P4] if received by 3pm M-F - no surcharges apply

3 day [P3] if received by 3pm M-F - 20% rush surcharge minimum

2 day [P2] if received by 3pm M-F - 50% rush surcharge minimum

1 day [E] if received by 3pm M-F - 100% rush surcharge minimum

Same day [E2] if received by 10am M-F - 200% rush surcharge

Additional fees may apply for rush requests on weeks

Date and Time Required for all E&P TATs:

For all tests with rush TATs requested, please use:

Analysts Request

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

NUMBER OF CONTAINERS

SAMPLES ON HOLD

EXTENDED STORAGE REQUIRED

SUSPECTED HAZARD (see notes)

Sample Identification and/or Coordinates (This description will appear on the report)

Bedroom  
Kitchen

11/03/85

11:03am

11:03/85 11:05am

Drinking Water (DW) Samples<sup>1</sup> (client use)

Are samples taken from a Regulated DW System?  YES  NO

Are samples for human consumption use?  YES  NO

Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)

SAMPLE RECEIPT DETAILS (ALS use only)

Cooling Method:  NONE  ICE  ICE PACKS  FROZEN  COOLING INITIATED

Cooler Custody Seals Intact:  YES  N/A Sample Custody Seals Intact:  YES  N/A

INITIAL COOLER TEMPERATURES °C: 3.6 FINAL COOLER TEMPERATURES °C:

SHIPMENT RELEASE (client use)

Date:

Time:

Received by:

INITIAL SHIPMENT RECEPTION (ALS use only)

Date:

Time:

Received by:

FINAL SHIPMENT RECEPTION (ALS use only)

Date:

Time:

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

JAN 2003 190041

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