



WSP Canada Inc.
ATTN: Marc St-Germain
100 Commerce Valley Drive West
Thornhill ON L3T 0A1

Date Received: 28-MAY-20
Report Date: 04-JUN-20 14:36 (MT)
Version: FINAL

Client Phone: 905-882-4211

Certificate of Analysis

Lab Work Order #: L2454270
Project P.O. #: 191-09337-01
Job Reference: 500015458
C of C Numbers:
Legal Site Desc:

Candice Hunter
Account Manager

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Environmental

ANALYTICAL GUIDELINE REPORT

L2454270 CONTD....

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500015458

| Sample Details Grouping | Analyte | Result | Qualifier | D.L. | Units | Analyzed | Guideline Limits | | | |
|----------------------------|--|------------|-----------|------|-------|-----------|------------------|----|--|--|
| L2454270-1 | ~P1 MSGR. PHILIP COFFEY C.S. 500015458 | H106-DFR-S | | | | | | | | |
| Sampled By: | MEREDITH CAKE on 27-MAY-20 (| | | | | | #1 | #2 | | |
| Matrix: | PLUMBING | | | | | | | | | |
| Total Metals | | | | | | | | | | |
| Lead (Pb) | | 5.6 | | 1.0 | ug/L | 04-JUN-20 | 10 | | | |
| L2454270-2 | ~P2 MSGR. PHILIP COFFEY C.S. 500015458 | H106-DFR-F | | | | | | | | |
| Sampled By: | MEREDITH CAKE on 27-MAY-20 (| | | | | | #1 | #2 | | |
| Matrix: | PLUMBING | | | | | | | | | |
| Total Metals | | | | | | | | | | |
| Lead (Pb) | | 2.1 | | 1.0 | ug/L | 04-JUN-20 | 10 | | | |
| | | | | | | | | | | |

** Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

Ontario Drinking Water Regulation (ODWQS) JAN.1,2020 = [Suite] - ON-DW-STANDARD+GUIDELINES

#1: Schedule 1 (Microbiological) and 2 (Chemical) Standards (JAN,2020)

#2: Ontario DW Aesthetic and Operational Guidelines (June, 2006)

Reference Information

Methods Listed (if applicable):

| ALS Test Code | Matrix | Test Description | Method Reference*** |
|---|--------|--------------------------------------|---------------------|
| PB-ONT-DW-243-WT | Water | Lead (O.Reg 243/07) | EPA 200.8 |
| TURB-MET-WT | Water | Turbidity on preserved metals sample | APHA 2130 B |
| Sample result is based on a comparison of the intensity of the light scattered by the sample under defined conditions with the intensity of light scattered by a standard reference suspension under the same conditions. Sample readings are obtained from a Nephelometer. | | | |

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

Chain of Custody numbers:

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

| Laboratory Definition Code | Laboratory Location | Laboratory Definition Code | Laboratory Location |
|----------------------------|---|----------------------------|---------------------|
| WT | ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA | | |

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

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

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



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| Test | Matrix | Reference | Result | Qualifier | Units | RPD | Limit | Analyzed |
|------------------|----------|-------------|--------|-----------|-------|-----|--------|-----------|
| PB-ONT-DW-243-WT | | Water | | | | | | |
| Batch | R5106360 | | | | | | | |
| WG3335040-4 | DUP | WG3335040-3 | | | | | | |
| Lead (Pb) | | 9.8 | 9.8 | | ug/L | 1.0 | 20 | 04-JUN-20 |
| WG3335040-2 | LCS | | | | | | | |
| Lead (Pb) | | | 99.5 | | % | | 70-130 | 04-JUN-20 |
| WG3335040-1 | MB | | | | | | | |
| Lead (Pb) | | | <1.0 | | ug/L | | 1 | 04-JUN-20 |
| WG3335040-5 | MS | WG3335040-3 | | | | | | |
| Lead (Pb) | | | 94.1 | | % | | 70-130 | 04-JUN-20 |

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Legend:

| | |
|-------|---|
| Limit | ALS Control Limit (Data Quality Objectives) |
| DUP | Duplicate |
| RPD | Relative Percent Difference |
| N/A | Not Available |
| LCS | Laboratory Control Sample |
| SRM | Standard Reference Material |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| ADE | Average Desorption Efficiency |
| MB | Method Blank |
| IRM | Internal Reference Material |
| CRM | Certified Reference Material |
| CCV | Continuing Calibration Verification |
| CVS | Calibration Verification Standard |
| LCSD | Laboratory Control Sample Duplicate |

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes 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 pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

