



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

Date Received: 14-JUL-17  
Report Date: 24-JUL-17 11:40 (MT)  
Version: FINAL

Client Phone: 905-882-4211

## Certificate of Analysis

Lab Work Order #: L1959262  
Project P.O. #: 171-09362-00  
Job Reference: 500013885  
C of C Numbers:  
Legal Site Desc:

Emerson Perez, B.S.E  
Account Manager

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# CRITERIA REPORT

500013885

Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits	Analyzed	Batch
L1959262-1 ~P1 ST CATHERINE OF SIENA-500013885-104-S Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 14:54 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	1.1		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-2 ~P1 ST CATHERINE OF SIENA-500013885-117H-BFF-S Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 14:56 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-3 ~P1 ST CATHERINE OF SIENA-500013885-144-S Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 14:59 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-4 ~P1 ST CATHERINE OF SIENA-500013885-1405-S Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:01 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	1.2		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-5 ~P1 ST CATHERINE OF SIENA-500013885-PRES-S Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:07 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-6 ~P2 ST CATHERINE OF SIENA-500013885-104-F Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:43 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-7 ~P2 ST CATHERINE OF SIENA-500013885-117H-BFF-F Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:43 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	18-JUL-17	R3777320
L1959262-8 ~P2 ST CATHERINE OF SIENA-500013885-144-F Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:44 Matrix: PLUMBING <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	10	18-JUL-17	R3777320

\* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

\*\* Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

# CRITERIA REPORT

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Sample Details/Parameters	Result	Qualifier	D.L.	Units	Criteria Specific Limits	Analyzed	Batch
L1959262-9 -P2 ST CATHERINE OF SIENA-500013885-1405-F Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:45 Matrix: PLUMBING  <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	ON-DWSTANDARD  10	18-JUL-17	R3777320
L1959262-10 -P2 ST CATHERINE OF SIENA-500013885-PRES-F Sampled By: PAISLEY MCDOWELL on 14-JUL-17 @ 15:46 Matrix: PLUMBING  <b>Individual Analytes</b> Lead (Pb)	<1.0		1.0	ug/L	ON-DWSTANDARD  10	18-JUL-17	R3777320

\* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

\*\* Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

# Reference Information

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**Methods Listed (if applicable):**

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
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.

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

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 wwt - 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 criteria limits 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.*



### Quality Control Report

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Client: WSP Canada Inc.  
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Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
<b>PB-ONT-DW-243-WT</b>								
	<b>Water</b>							
<b>Batch</b>	<b>R3777320</b>							
<b>WG2572691-4</b>	<b>DUP</b>	<b>WG2572691-3</b>						
Lead (Pb)		<1.0	<1.0	RPD-NA	ug/L	N/A	20	18-JUL-17
<b>WG2572691-2</b>	<b>LCS</b>							
Lead (Pb)			103.4		%		70-130	18-JUL-17
<b>WG2572691-1</b>	<b>MB</b>							
Lead (Pb)			<1.0		ug/L		1	18-JUL-17
<b>WG2572691-5</b>	<b>MS</b>	<b>WG2572691-3</b>						
Lead (Pb)			95.5		%		70-130	18-JUL-17

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## Legend:

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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

## Sample Parameter Qualifier Definitions:

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Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

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## 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.

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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.

