



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	375552
Company:	RDSB - Charles C. McLean Public School	PO #:	
Address:	69 Young St Sudbury, ON, P3E 3G5	Regulation:	O.Reg. 243/07
Phone/Fax:	(705) 674-3171 / (705) 761-2442	Project #:	
Email:	mcculls@rainbowschools.ca	DWS #:	500039105
		Sampled By:	Steve McCulloch
Date Order Received:	6/18/2019	Analysis Started:	6/25/2019
Arrival Temperature:	15 °C	Analysis Completed:	6/26/2019

### WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
3 Standing (S)	1449886	Water	Plumbing		6/18/2019	6:15 AM
3 Flushed (F)	1449887	Water	Plumbing		6/18/2019	6:50 AM
6 S	1449888	Water	Plumbing		6/18/2019	6:20 AM
6 F	1449889	Water	Plumbing		6/18/2019	6:55 AM
8 S	1449890	Water	Plumbing		6/18/2019	6:25 AM
8 F	1449891	Water	Plumbing		6/18/2019	7:00 AM
D S	1449892	Water	Plumbing		6/18/2019	6:27 AM
D F	1449893	Water	Plumbing		6/18/2019	7:02 AM
15 Standing (S)	1449894	Water	Plumbing		6/18/2019	6:40 AM
15 Flushed (F)	1449895	Water	Plumbing		6/18/2019	7:15 AM
16 S	1449896	Water	Plumbing		6/18/2019	6:30 AM
16 F	1449897	Water	Plumbing		6/18/2019	7:05 AM
18B S	1449898	Water	Plumbing		6/18/2019	6:36 AM
18B F	1449899	Water	Plumbing		6/18/2019	7:11 AM
22 S	1449900	Water	Plumbing		6/18/2019	6:47 AM
22 F	1449901	Water	Plumbing		6/18/2019	7:22 AM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
21B Standind (S)	1449902	Water	Plumbing		6/18/2019	6:53 AM
21B Flushed (F)	1449903	Water	Plumbing		6/18/2019	7:33 AM
B S	1449904	Water	Plumbing		6/18/2019	6:55 AM
B F	1449905	Water	Plumbing		6/18/2019	7:30 AM
26 S	1449906	Water	Plumbing		6/18/2019	6:52 AM
26 F	1449907	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/18/2019	7:27 AM

### METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
ICPMS Reg. Water (A13)	Garson	Determination of Metals in Water by ICP/MS	Modified from SW846-6020A

### REPORT COMMENTS

Lead exceedance reported for sample 1449907. 06/26/19 JC

This report has been approved by:

Mark Charbonneau, Ph.D.  
Laboratory Director



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### WORK ORDER RESULTS

<b>Sample Description</b>	<b>3 Standing (S)</b>		<b>3 Flushed (F)</b>		<b>6 S</b>		<b>6 F</b>			
<b>Lab ID</b>	1449886		1449887		1449888		1449889			
<b>Metals</b>	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.4	0.1	0.1	0.1	0.4	0.1	0.1	0.1	ug/L	10
<b>Sample Description</b>	<b>8 S</b>		<b>8 F</b>		<b>D S</b>		<b>D F</b>			
<b>Lab ID</b>	1449890		1449891		1449892		1449893			
<b>Metals</b>	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	0.1	0.1	0.2	0.1	<0.1	0.1	ug/L	10
<b>Sample Description</b>	<b>15 Standing (S)</b>		<b>15 Flushed (F)</b>		<b>16 S</b>		<b>16 F</b>			
<b>Lab ID</b>	1449894		1449895		1449896		1449897			
<b>Metals</b>	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.6	0.1	1.2	0.1	3.2	0.1	8.9	0.1	ug/L	10
<b>Sample Description</b>	<b>18B S</b>		<b>18B F</b>		<b>22 S</b>		<b>22 F</b>			
<b>Lab ID</b>	1449898		1449899		1449900		1449901			
<b>Metals</b>	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.5	0.1	0.4	0.1	2.7	0.1	2.3 [2.4]	0.1	ug/L	10
<b>Sample Description</b>	<b>21B Standind (S)</b>		<b>21B Flushed (F)</b>		<b>B S</b>		<b>B F</b>			
<b>Lab ID</b>	1449902		1449903		1449904		1449905			
<b>Metals</b>	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.7	0.1	0.7	0.1	2.3	0.1	1.8	0.1	ug/L	10



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Sample Description	26 S		26 F			
Lab ID	1449906		1449907			
Metals	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.4	0.1	32.9	0.1	ug/L	10

### LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

MDL: Method detection limit or minimum reporting limit.

[ ]: Results for laboratory replicates are shown in square brackets immediately below the associated sample result for ease of comparison.

Quality Control: All associated Quality Control data is available on request.

LCL: Lower Control Limit.

UCL: Upper Control Limit.

QAQCID: This is a unique reference to the quality control data set used to generate the reported value. Contact our lab for this information, as it is traceable through our LIMS.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result.



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### QUALITY CONTROL DATA

THIS SECTION REPORTS QC RESULTS ASSOCIATED WITH THE TEST BATCH; THESE ARE NOT YOUR SAMPLE RESULTS.  
QAQC details include only values where sufficient sample data allowed measurement.

#### Metals

##### Method Blank: LRB-6 (Blank- µg/L) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	0	<1	1	20190626.A13.1C
Lead	1	ug/L	0	<1	1	20190626.A13.1D

##### Positive Control: LFB-7 (N 100 µg/L) (7)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	92.7	120	20190626.A13.1D
Lead	N/A	%	80	94.5	120	20190626.A13.1C

##### Reference Sample: CRM-12 (EP-L-3) (12)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	3.65	4.04	4.35	20190626.A13.1D
Lead	1	ug/L	3.65	4.07	4.35	20190626.A13.1C

##### Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	0	4.3	20	20190626.A13.1D

##### Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	95.7	130	20190626.A13.1D
Lead	N/A	% Rec	70	Not Analyzed	130	20190626.A13.1C



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THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
15 Flushed (F)	1449895	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
15 Standing (S)	1449894	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
16 F	1449897	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
16 S	1449896	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
18B F	1449899	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
18B S	1449898	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
21B Flushed (F)	1449903	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
21B Standind (S)	1449902	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
22 F	1449901	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
22 F	1449901r	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
22 S	1449900	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
26 F	1449907	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
26 S	1449906	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
3 Flushed (F)	1449887	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
3 Standing (S)	1449886	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
6 F	1449889	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
6 S	1449888	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
8 F	1449891	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
8 S	1449890	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
B F	1449905	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
B S	1449904	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
D F	1449893	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B
D S	1449892	ICPMS Reg. Water (A13)	20190626.A13.1D	20190625.A52B