



CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	375558
Company:	RDSB - Copper Cliff 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 #:	500045852
		Sampled By:	Steve McCulloch
Date Order Received:	6/19/2019	Analysis Started:	6/25/2019
Arrival Temperature:	12 °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
102 Standing	1449910	Water	Plumbing		6/19/2019	6:30 AM
102 Flushed	1449911	Water	Plumbing		6/19/2019	7:05 AM
211 Standing	1449912	Water	Plumbing		6/19/2019	6:35 AM
211 Flushed	1449913	Water	Plumbing		6/19/2019	7:10 AM
A Standing	1449914	Water	Plumbing		6/19/2019	6:40 AM
A Flushed	1449915	Water	Plumbing		6/19/2019	7:15 AM
B Standing	1449916	Water	Plumbing		6/19/2019	6:45 AM
B Flushed	1449917	Water	Plumbing		6/19/2019	7:20 AM
C Standing	1449918	Water	Plumbing		6/19/2019	6:50 AM
C Flushed	1449919	Water	Plumbing		6/19/2019	7:25 AM
D Standing	1449920	Water	Plumbing		6/19/2019	6:55 AM
D Flushed	1449921	Water	Plumbing		6/19/2019	7:30 AM

METHODS AND INSTRUMENTATION

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



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

This report has been approved by:

Mark Charbonneau, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	102 Standing		102 Flushed		211 Standing		211 Flushed		Units	Criteria: O.Reg. 243/07
Lab ID	1449910		1449911		1449912		1449913			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	1.4	0.1	0.9	0.1	5.3	0.1	6.4	0.1	ug/L	10

Sample Description	A Standing		A Flushed		B Standing		B Flushed		Units	Criteria: O.Reg. 243/07
Lab ID	1449914		1449915		1449916		1449917			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	1.4	0.1	1.1	0.1	0.2	0.1	<0.1	0.1	ug/L	10

Sample Description	C Standing		C Flushed		D Standing		D Flushed		Units	Criteria: O.Reg. 243/07
Lab ID	1449918		1449919		1449920		1449921			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	<0.1	0.1	0.2	0.1	0.8	0.1	0.8	0.1	ug/L	10



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LEGEND

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

MDL: Method detection limit or minimum reporting limit.

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

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
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	4.07	4.35	20190626.A13.1C

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
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
102 Flushed	1449911	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
102 Standing	1449910	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
211 Flushed	1449913	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
211 Standing	1449912	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
A Flushed	1449915	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
A Standing	1449914	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
B Flushed	1449917	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
B Standing	1449916	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
C Flushed	1449919	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
C Standing	1449918	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
D Flushed	1449921	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G
D Standing	1449920	ICPMS Reg. Water (A13)	20190626.A13.1C	20190625.A52G