



CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	442215
Company:	RDSB - Manitoulin Secondary School	PO #:	
Address:	408 Wembley Drive Sudbury, ON, P3E 1P2	Regulation:	O.Reg. 243/07
Phone/Fax:	(705) 674-3171 / (705) 671-2442	Project #:	
Email:	mcculls@rainbowschools.ca	DWS #:	500039014
		Sampled By:	Steve McCulloch
Date Order Received:	9/13/2021	Analysis Started:	9/20/2021
Arrival Temperature:	6 °C	Analysis Completed:	9/21/2021

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
Standing - F1	1682354	Water	Plumbing		9/11/2021	12:20 PM
Flushed - F1	1682355	Water	Plumbing		9/11/2021	12:56 PM
Standing - F2	1682356	Water	Plumbing		9/11/2021	12:25 PM
Flushed - F2	1682357	Water	Plumbing		9/11/2021	1:01 PM
Standing - FU4	1682358	Water	Plumbing		9/11/2021	12:30 PM
Flushed - FU4	1682359	Water	Plumbing		9/11/2021	1:06 PM
Standing - F6	1682360	Water	Plumbing		9/11/2021	12:35 PM
Flushed - F6	1682361	Water	Plumbing		9/11/2021	1:11 PM
Standing - F9	1682362	Water	Plumbing		9/11/2021	12:40 PM
Flushed - F9	1682363	Water	Plumbing		9/11/2021	1:16 PM
Standing - S61	1682364	Water	Plumbing		9/11/2021	12:45 PM
Flushed - S61	1682365	Water	Plumbing		9/11/2021	1:21 PM
Standing - SD5A	1682366	Water	Plumbing		9/11/2021	12:50 PM
Flushed - SD5A	1682367	Water	Plumbing		9/11/2021	1:26 PM
Standing - SD5C	1682368	Water	Plumbing		9/11/2021	12:55 PM
Flushed - SD5C	1682369	Water	Plumbing		9/11/2021	1:31 PM
Standing - SD5E	1682370	Water	Plumbing		9/11/2021	1:00 PM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
Flushed - SD5E	1682371	Water	Plumbing		9/11/2021	1:36 PM
Standing - S29B	1682372	Water	Plumbing		9/11/2021	1:05 PM
Flushed - S29B	1682373	Water	Plumbing		9/11/2021	1:41 PM
Standing - S29D	1682374	Water	Plumbing		9/11/2021	1:10 PM
Flushed - S29D	1682375	Water	Plumbing		9/11/2021	1:46 PM
Standing - S29E	1682376	Water	Plumbing		9/11/2021	1:15 PM
Flushed - S29E	1682377	Water	Plumbing		9/11/2021	1:51 PM

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

This report has been approved by:

Mahesh Patel, B.Sc.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	Standing - F1		Flushed - F1		Standing - F2		Flushed - F2			
Sample Date	9/11/2021 12:20 PM		9/11/2021 12:56 PM		9/11/2021 12:25 PM		9/11/2021 1:01 PM			
Lab ID	1682354		1682355		1682356		1682357			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.8	0.1	0.2	0.1	0.7	0.1	0.2	0.1	ug/L	10
Sample Description	Standing - FU4		Flushed - FU4		Standing - F6		Flushed - F6			
Sample Date	9/11/2021 12:30 PM		9/11/2021 1:06 PM		9/11/2021 12:35 PM		9/11/2021 1:11 PM			
Lab ID	1682358		1682359		1682360		1682361			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	0.2	0.1	0.5	0.1	0.2	0.1	ug/L	10
Sample Description	Standing - F9		Flushed - F9		Standing - S61		Flushed - S61			
Sample Date	9/11/2021 12:40 PM		9/11/2021 1:16 PM		9/11/2021 12:45 PM		9/11/2021 1:21 PM			
Lab ID	1682362		1682363		1682364		1682365			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	0.2	0.1	3.1	0.1	0.4	0.1	ug/L	10
Sample Description	Standing - SD5A		Flushed - SD5A		Standing - SD5C		Flushed - SD5C			
Sample Date	9/11/2021 12:50 PM		9/11/2021 1:26 PM		9/11/2021 12:55 PM		9/11/2021 1:31 PM			
Lab ID	1682366		1682367		1682368		1682369			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.5	0.1	0.8	0.1	3.7	0.1	1.5	0.1	ug/L	10



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Sample Description	Standing - SD5E		Flushed - SD5E		Standing - S29B		Flushed - S29B			
Sample Date	9/11/2021 1:00 PM		9/11/2021 1:36 PM		9/11/2021 1:05 PM		9/11/2021 1:41 PM			
Lab ID	1682370		1682371		1682372		1682373			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	1.5	0.1	0.3	0.1	0.2	0.1	ug/L	10
Sample Description	Standing - S29D		Flushed - S29D		Standing - S29E		Flushed - S29E			
Sample Date	9/11/2021 1:10 PM		9/11/2021 1:46 PM		9/11/2021 1:15 PM		9/11/2021 1:51 PM			
Lab ID	1682374		1682375		1682376		1682377			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.4	0.1	0.1	0.1	0.2	0.1	0.1	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.

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.

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. Results apply to the sample(s) as received.

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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) (6)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1B
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1D
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1E
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1F
Lead	0.1	ug/L	0	<0.1	1	20210920.A13.1G
Lead	0.1	ug/L	0	<0.1	1	20210921.A13.1F

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	94.3	120	20210920.A13.1G
Lead	N/A	%	80	95.6	120	20210920.A13.1B
Lead	N/A	%	80	95.7	120	20210920.A13.1E
Lead	N/A	%	80	95.9	120	20210921.A13.1F
Lead	N/A	%	80	96.3	120	20210920.A13.1F
Lead	N/A	%	80	96.9	120	20210920.A13.1D

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	3.94	5.38	20210920.A13.1D
Lead	1	ug/L	2.58	4.02	5.38	20210921.A13.1F
Lead	1	ug/L	2.58	4.06	5.38	20210920.A13.1F
Lead	1	ug/L	2.58	4.06	5.38	20210920.A13.1G
Lead	1	ug/L	2.58	4.08	5.38	20210920.A13.1B
Lead	1	ug/L	2.58	4.1	5.38	20210920.A13.1E



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Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	0	2.6	20	20210921.A13.1F

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	89.7	130	20210920.A13.1F
Lead	N/A	% Rec	70	92.1	130	20210920.A13.1E
Lead	N/A	% Rec	70	94.1	130	20210920.A13.1G
Lead	N/A	% Rec	70	94.9	130	20210920.A13.1B
Lead	N/A	% Rec	70	97.5	130	20210920.A13.1D
Lead	N/A	% Rec	70	97.5	130	20210921.A13.1F



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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
Flushed - F1	1682355	ICPMS Reg. Water (A13)	20210920.A13.1E	20210915.A52V
Flushed - F2	1682357	ICPMS Reg. Water (A13)	20210920.A13.1F	20210915.A52X
Flushed - F6	1682361	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Flushed - F9	1682363	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Flushed - FU4	1682359	ICPMS Reg. Water (A13)	20210920.A13.1D	20210915.A52W
Flushed - S29B	1682373	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Flushed - S29D	1682375	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Flushed - S29E	1682377	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Flushed - S61	1682365	ICPMS Reg. Water (A13)	20210920.A13.1D	20210915.A52W
Flushed - SD5A	1682367	ICPMS Reg. Water (A13)	20210920.A13.1F	20210915.A52X
Flushed - SD5C	1682369	ICPMS Reg. Water (A13)	20210920.A13.1E	20210915.A52V
Flushed - SD5E	1682371	ICPMS Reg. Water (A13)	20210921.A13.1F	20210917.A52T
Standing - F1	1682354	ICPMS Reg. Water (A13)	20210920.A13.1F	20210915.A52X
Standing - F2	1682356	ICPMS Reg. Water (A13)	20210920.A13.1D	20210915.A52W
Standing - F6	1682360	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Standing - F9	1682362	ICPMS Reg. Water (A13)	20210920.A13.1F	20210915.A52X
Standing - FU4	1682358	ICPMS Reg. Water (A13)	20210920.A13.1E	20210915.A52V
Standing - S29B	1682372	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Standing - S29D	1682374	ICPMS Reg. Water (A13)	20210920.A13.1B	20210915.A52Y
Standing - S29E	1682376	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z
Standing - S61	1682364	ICPMS Reg. Water (A13)	20210920.A13.1D	20210915.A52W
Standing - SD5A	1682366	ICPMS Reg. Water (A13)	20210920.A13.1D	20210915.A52W
Standing - SD5C	1682368	ICPMS Reg. Water (A13)	20210920.A13.1F	20210915.A52X
Standing - SD5E	1682370	ICPMS Reg. Water (A13)	20210920.A13.1G	20210915.A52Z