



CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	499882
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:	5/23/2023	Analysis Started:	5/24/2023
Arrival Temperature:	2 °C	Analysis Completed:	5/25/2023

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	1882900	Water	Plumbing		5/21/2023	6:05 AM
Flushed-F1	1882901	Water	Plumbing		5/21/2023	6:40 AM
Standing-FU4	1882902	Water	Plumbing		5/21/2023	6:10 AM
Flushed-FU4	1882903	Water	Plumbing		5/21/2023	6:45 AM
Standing-F7	1882904	Water	Plumbing		5/21/2023	6:15 AM
Flushed-F7	1882905	Water	Plumbing		5/21/2023	6:50 AM
Standing-F10	1882906	Water	Plumbing		5/21/2023	6:20 AM
Flushed-F10	1882907	Water	Plumbing		5/21/2023	6:55 AM
Standing-SD5A	1882908	Water	Plumbing		5/21/2023	6:25 AM
Flushed-SD5A	1882909	Water	Plumbing		5/21/2023	7:00 AM
Standing-SD5D	1882910	Water	Plumbing		5/21/2023	6:30 AM
Flushed-SD5D	1882911	Water	Plumbing		5/21/2023	7:05 AM
Standing-S29A	1882912	Water	Plumbing		5/21/2023	6:35 AM
Flushed-S29A	1882913	Water	Plumbing		5/21/2023	7:10 AM
Standing-S29D	1882914	Water	Plumbing		5/21/2023	6:40 AM
Flushed-S29D	1882915	Water	Plumbing		5/21/2023	7:15 AM



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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:

Brad Halvorson, B.Sc.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	Standing - F1		Flushed - F1		Standing - FU4		Flushed - FU4			
Sample Date	5/21/2023 6:05 AM		5/21/2023 6:40 AM		5/21/2023 6:10 AM		5/21/2023 6:45 AM			
Lab ID	1882900		1882901		1882902		1882903			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	1.7	0.1	0.8	0.1	0.6	0.1	0.4	0.1	ug/L	10
Sample Description	Standing - F7		Flushed - F7		Standing - F10		Flushed - F10			
Sample Date	5/21/2023 6:15 AM		5/21/2023 6:50 AM		5/21/2023 6:20 AM		5/21/2023 6:55 AM			
Lab ID	1882904		1882905		1882906		1882907			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.5	0.1	0.1	0.1	0.5	0.1	0.2	0.1	ug/L	10
Sample Description	Standing - SD5A		Flushed - SD5A		Standing - SD5D		Flushed - SD5D			
Sample Date	5/21/2023 6:25 AM		5/21/2023 7:00 AM		5/21/2023 6:30 AM		5/21/2023 7:05 AM			
Lab ID	1882908		1882909		1882910		1882911			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.6	0.1	0.6	0.1	1.0	0.1	0.3	0.1	ug/L	10
Sample Description	Standing - S29A		Flushed - S29A		Standing - S29D		Flushed - S29D			
Sample Date	5/21/2023 6:35 AM		5/21/2023 7:10 AM		5/21/2023 6:40 AM		5/21/2023 7:15 AM			
Lab ID	1882912		1882913		1882914		1882915			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.7	0.1	0.1	0.1	0.7	0.1	0.2	0.1	ug/L	10



TESTMARK Laboratories Ltd.

Committed to Quality and Service

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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.

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.

Reproduction of Report: Report shall not be reproduced, except in full, without the approval of Testmark Laboratories Ltd.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.



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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	0.3	20230525.A13.1J

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	85	101	115	20230525.A13.1J

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	4.01	5.38	20230525.A13.1J

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	99.3	130	20230525.A13.1J



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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	1882901	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - F10	1882907	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - F7	1882905	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - FU4	1882903	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - S29A	1882913	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - S29D	1882915	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - SD5A	1882909	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Flushed - SD5D	1882911	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - F1	1882900	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - F10	1882906	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - F7	1882904	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - FU4	1882902	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - S29A	1882912	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - S29D	1882914	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - SD5A	1882908	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ
Standing - SD5D	1882910	ICPMS Reg. Water (A13)	20230525.A13.1J	20230524.A52ZJ