



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	499904
Company:	RDSB - Espanola H.S. - AB ELLIS PS	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 #:	500039053
		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 - S-E80	1882993	Water	Plumbing		5/21/2023	1:40 PM
Flushed - S-E80	1882994	Water	Plumbing		5/21/2023	2:15 PM
Standing - S-68	1882995	Water	Plumbing		5/21/2023	1:45 PM
Flushed - S-68	1882996	Water	Plumbing		5/21/2023	2:20 PM
Standing - F-B131A	1882997	Water	Plumbing		5/21/2023	1:50 PM
Flushed - F-B131A	1882998	Water	Plumbing		5/21/2023	2:25 PM
Standing - FU-228	1882999	Water	Plumbing		5/21/2023	1:55 PM
Flushed - FU-228	1883000	Water	Plumbing		5/21/2023	2:30 PM
Standing - S-178C	1883001	Water	Plumbing		5/21/2023	2:00 PM
Flushed - S-178C	1883002	Water	Plumbing		5/21/2023	2:35 PM
Standing - F-2	1883003	Water	Plumbing		5/21/2023	2:05 PM
Flushed - F-2	1883004	Water	Plumbing		5/21/2023	2:40 PM
Standing - F-3	1883005	Water	Plumbing		5/21/2023	2:10 PM
Flushed - F-3	1883006	Water	Plumbing		5/21/2023	2:45 PM
Standing - FU-5	1883007	Water	Plumbing		5/21/2023	2:15 PM
Flushed - FU-5	1883008	Water	Plumbing		5/21/2023	2:50 PM
Standing - S-C119A	1883009	Water	Plumbing		5/21/2023	2:20 PM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
Flushed - S-C119A	1883010	Water	Plumbing		5/21/2023	2:55 PM
Standing - S-C119D	1883011	Water	Plumbing		5/21/2023	2:25 PM
Flushed - S-C119D	1883012	Water	Plumbing		5/21/2023	3:00 PM
Standing - E-E88	1883013	Water	Plumbing		5/21/2023	2:30 PM
Flushed - E-E88	1883014	Water	Plumbing		5/21/2023	3:05 PM
Standing - S-C97B	1883015	Water	Plumbing		5/21/2023	2:35 PM
Flushed - S-C97B	1883016	Water	Plumbing		5/21/2023	3:10 PM
Standing - S-D55B	1883017	Water	Plumbing		5/21/2023	2:40 PM
Flushed - S-D55B	1883018	Water	Plumbing		5/21/2023	3:15 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:

Brad Halvorson, B.Sc.  
Laboratory Director



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**WORK ORDER RESULTS**

Sample Description	Standing - S - E80		Flushed - S - E80		Standing - S - 68		Flushed - S - 68			
Sample Date	5/21/2023 1:40 PM		5/21/2023 2:15 PM		5/21/2023 1:45 PM		5/21/2023 2:20 PM			
Lab ID	1882993		1882994		1882995		1882996			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	<0.1	0.1	0.3	0.1	0.4	0.1	ug/L	10
Sample Description	Standing - F - B131A		Flushed - F - B131A		Standing - FU - 228		Flushed - FU - 228			
Sample Date	5/21/2023 1:50 PM		5/21/2023 2:25 PM		5/21/2023 1:55 PM		5/21/2023 2:30 PM			
Lab ID	1882997		1882998		1882999		1883000			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.4	0.1	0.2 [0.1]	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	Standing - S - 178C		Flushed - S - 178C		Standing - F - 2		Flushed - F - 2			
Sample Date	5/21/2023 2:00 PM		5/21/2023 2:35 PM		5/21/2023 2:05 PM		5/21/2023 2:40 PM			
Lab ID	1883001		1883002		1883003		1883004			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.2	0.1	0.5	0.1	2.1	0.1	0.1	0.1	ug/L	10
Sample Description	Standing - F - 3		Flushed - F - 3		Standing - FU - 5		Flushed - FU - 5			
Sample Date	5/21/2023 2:10 PM		5/21/2023 2:45 PM		5/21/2023 2:15 PM		5/21/2023 2:50 PM			
Lab ID	1883005		1883006		1883007		1883008			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	2.1	0.1	<0.1	0.1	0.9	0.1	0.4	0.1	ug/L	10



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Sample Description	Standing - S - C119A		Flushed - S - C119A		Standing - S - C119D		Flushed - S - C119D			
Sample Date	5/21/2023 2:20 PM		5/21/2023 2:55 PM		5/21/2023 2:25 PM		5/21/2023 3:00 PM			
Lab ID	1883009		1883010		1883011		1883012			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	2.6	0.1	<0.1	0.1	0.2	0.1	0.7	0.1	ug/L	10
Sample Description	Standing - E - E88		Flushed - E - E88		Standing - S - C97B		Flushed - S - C97B			
Sample Date	5/21/2023 2:30 PM		5/21/2023 3:05 PM		5/21/2023 2:35 PM		5/21/2023 3:10 PM			
Lab ID	1883013		1883014		1883015		1883016			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	<0.1	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	Standing - S - D55B		Flushed - S - D55B							
Sample Date	5/21/2023 2:40 PM		5/21/2023 3:15 PM							
Lab ID	1883017		1883018							
Metals	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07				
Lead	<0.1	0.1	<0.1 [<0.1]	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.

[ ]: 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.

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.A13.1K
Lead	0.1	ug/L	0	<0.1	0.3	20230525.A13.1L

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	85	100	115	20230525.A13.1K
Lead	N/A	%	85	99.5	115	20230525.A13.1L

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	3.9	5.38	20230525.A13.1L
Lead	1	ug/L	2.58	3.95	5.38	20230525.A13.1K

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	95.9	130	20230525.A13.1L
Lead	N/A	% Rec	70	97.1	130	20230525.A13.1K



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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 - E - E88	1883014	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - F - 2	1883004	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - F - 3	1883006	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - F - B131A	1882998	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL
Flushed - F - B131A	1882998r	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL
Flushed - FU - 228	1883000	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - FU - 5	1883008	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - 178C	1883002	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - 68	1882996	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL
Flushed - S - C119A	1883010	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - C119D	1883012	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - C97B	1883016	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - D55B	1883018	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - D55B	1883018r	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Flushed - S - E80	1882994	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL
Standing - E - E88	1883013	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - F - 2	1883003	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - F - 3	1883005	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - F - B131A	1882997	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL
Standing - FU - 228	1882999	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - FU - 5	1883007	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - S - 178C	1883001	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - S - 68	1882995	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL
Standing - S - C119A	1883009	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - S - C119D	1883011	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - S - C97B	1883015	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - S - D55B	1883017	ICPMS Reg. Water (A13)	20230525.A13.1L	20230524.A52ZM
Standing - S - E80	1882993	ICPMS Reg. Water (A13)	20230525.A13.1K	20230524.A52ZL