



**TESTMARK Laboratories Ltd.**

Committed to Quality and Service

## CERTIFICATE OF ANALYSIS

Client:	Steve McCulloch	Work Order Number:	462833
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:	
Date Order Received:	5/16/2022	Analysis Started:	5/19/2022
Arrival Temperature:	3 °C	Analysis Completed:	5/19/2022

### 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-SA06	1753866	Water	Plumbing		5/14/2022	2:40 PM
Flushed-SA06	1753867	Water	Plumbing		5/14/2022	3:15 PM
Standing-S51	1753868	Water	Plumbing		5/14/2022	2:45 PM
Flushed-S51	1753869	Water	Plumbing		5/14/2022	3:20 PM
Standing-SD55A	1753870	Water	Plumbing		5/14/2022	2:50 PM
Flushed-SD55A	1753871	Water	Plumbing		5/14/2022	3:25 PM
Standing-SE69C	1753872	Water	Plumbing		5/14/2022	2:55 PM
Flushed-SE69C	1753873	Water	Plumbing		5/14/2022	3:30 PM
Standing-SC119F	1753874	Water	Plumbing		5/14/2022	3:00 PM
Flushed-SC119F	1753875	Water	Plumbing		5/14/2022	3:35 PM
Standing-F8	1753876	Water	Plumbing		5/14/2022	3:05 PM
Flushed-F8	1753877	Water	Plumbing		5/14/2022	3:40 PM
Standing-SC119C	1753878	Water	Plumbing		5/14/2022	3:10 PM
Flushed-SC119C	1753879	Water	Plumbing		5/14/2022	3:45 PM
Standing-F9	1753880	Water	Plumbing		5/14/2022	3:15 PM
Flushed-F9	1753881	Water	Plumbing		5/14/2022	3:50 PM
Standing-S73	1753882	Water	Plumbing		5/14/2022	3:20 PM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
Flushed-S73	1753883	Water	Plumbing		5/14/2022	3:55 PM
Standing-S173	1753884	Water	Plumbing		5/14/2022	3:25 PM
Flushed-S173	1753885	Water	Plumbing		5/14/2022	4:00 PM
Standing-S169	1753886	Water	Plumbing		5/14/2022	3:30 PM
Flushed-S169	1753887	Water	Plumbing		5/14/2022	4:05 PM
Standing-FB162	1753888	Water	Plumbing		5/14/2022	3:35 PM
Flushed-FB162	1753889	Water	Plumbing		5/14/2022	4:10 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 - SA06		Flushed - SA06		Standing - S51		Flushed - S51			
Sample Date	5/14/2022 2:40 PM		5/14/2022 3:15 PM		5/14/2022 2:45 PM		5/14/2022 3:20 PM			
Lab ID	1753866		1753867		1753868		1753869			
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 - SD55A		Flushed - SD55A		Standing - SE69C		Flushed - SE69C			
Sample Date	5/14/2022 2:50 PM		5/14/2022 3:25 PM		5/14/2022 2:55 PM		5/14/2022 3:30 PM			
Lab ID	1753870		1753871		1753872		1753873			
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 - SC119F		Flushed - SC119F		Standing - F8		Flushed - F8			
Sample Date	5/14/2022 3:00 PM		5/14/2022 3:35 PM		5/14/2022 3:05 PM		5/14/2022 3:40 PM			
Lab ID	1753874		1753875		1753876		1753877			
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 - SC119C		Flushed - SC119C		Standing - F9		Flushed - F9			
Sample Date	5/14/2022 3:10 PM		5/14/2022 3:45 PM		5/14/2022 3:15 PM		5/14/2022 3:50 PM			
Lab ID	1753878		1753879		1753880		1753881			
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



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Sample Description	Standing - S73		Flushed - S73		Standing - S173		Flushed - S173			
Sample Date	5/14/2022 3:20 PM		5/14/2022 3:55 PM		5/14/2022 3:25 PM		5/14/2022 4:00 PM			
Lab ID	1753882		1753883		1753884		1753885			
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	0.1	ug/L	10

  

Sample Description	Standing - S169		Flushed - S169		Standing - FB162		Flushed - FB162			
Sample Date	5/14/2022 3:30 PM		5/14/2022 4:05 PM		5/14/2022 3:35 PM		5/14/2022 4:10 PM			
Lab ID	1753886		1753887		1753888		1753889			
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

**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.

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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.



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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	20220519.A13.1C
Lead	0.1	ug/L	0	<0.1	1	20220519.A13.1D

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	94.3	120	20220519.A13.1D
Lead	N/A	%	80	95.7	120	20220519.A13.1C

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	2.58	3.92	5.38	20220519.A13.1D
Lead	1	ug/L	2.58	3.95	5.38	20220519.A13.1C

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	87.7	130	20220519.A13.1C
Lead	N/A	% Rec	70	88	130	20220519.A13.1D



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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 - F8	1753877	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - F9	1753881	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - FB162	1753889	ICPMS Reg. Water (A13)	20220519.A13.1D	20220518.A52F
Flushed - S169	1753887	ICPMS Reg. Water (A13)	20220519.A13.1D	20220518.A52F
Flushed - S173	1753885	ICPMS Reg. Water (A13)	20220519.A13.1D	20220518.A52F
Flushed - S51	1753869	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - S73	1753883	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - S73	1753883r	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - SA06	1753867	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - SC119C	1753879	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - SC119F	1753875	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - SD55A	1753871	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Flushed - SE69C	1753873	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - F8	1753876	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - F9	1753880	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - FB162	1753888	ICPMS Reg. Water (A13)	20220519.A13.1D	20220518.A52F
Standing - S169	1753886	ICPMS Reg. Water (A13)	20220519.A13.1D	20220518.A52F
Standing - S173	1753884	ICPMS Reg. Water (A13)	20220519.A13.1D	20220518.A52F
Standing - S51	1753868	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - S73	1753882	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - SA06	1753866	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - SC119C	1753878	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - SC119F	1753874	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - SD55A	1753870	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E
Standing - SE69C	1753872	ICPMS Reg. Water (A13)	20220519.A13.1C	20220518.A52E