



CERTIFICATE OF ANALYSIS

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Work Order Number: 309079
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500039014
Sampled By: Chris Grabb

Date Order Received: 6/20/2017
Arrival Temperature: 17 °C

Analysis Started: 6/23/2017
Analysis Completed: 6/26/2017

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
A (Standing)	889103	Water	Plumbing		6/20/2017	6:45 AM
A (Flushed)	889104	Water	Plumbing		6/20/2017	7:20 AM
C (Standing)	889105	Water	Plumbing		6/20/2017	6:47 AM
C (Flushed)	889106	Water	Plumbing		6/20/2017	7:22 AM
D10 (Standing)	889107	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/20/2017	6:48 AM
D10 (Flushed)	889108	Water	Plumbing		6/20/2017	7:24 AM
29A (Standing)	889109	Water	Plumbing		6/20/2017	6:50 AM
29A (Flushed)	889110	Water	Plumbing		6/20/2017	7:26 AM
E (Standing)	889111	Water	Plumbing		6/20/2017	6:52 AM
E (Flushed)	889112	Water	Plumbing		6/20/2017	7:28 AM
G (Standing)	889113	Water	Plumbing		6/20/2017	6:54 AM
G (Flushed)	889114	Water	Plumbing		6/20/2017	7:33 AM
H (Standing)	889115	Water	Plumbing		6/20/2017	6:56 AM
H (Flushed)	889116	Water	Plumbing		6/20/2017	7:35 AM

METHODS AND INSTRUMENTATION

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



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Work Order Number: 309079

Method	Lab	Description	Reference
ICPMS Reg. Water	Garson	Determination of Metals in Water by ICP/MS	Based on SW846-6020A

REPORT COMMENTS

Estimated Standing Time 10 HRS
Lead exceedance reported for Sample ID #889107 06/26/17 HC

This report has been approved by:

Khaled Omari, Ph.D.

Laboratory Director



CERTIFICATE OF ANALYSIS

RDSB - Manitoulin Secondary School

Work Order Number: 309079

WORK ORDER RESULTS

Sample Description	A (Standing)		A (Flushed)		C (Standing)		C (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889103		889104		889105		889106			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	0.55	0.1	0.22	0.1	0.85	0.1	0.31	0.1	ug/L	10

Sample Description	D10 (Standing)		D10 (Flushed)		29A (Standing)		29A (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889107		889108		889109		889110			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	11.7	0.1	1.77	0.1	3.55	0.1	0.3	0.1	ug/L	10

Sample Description	E (Standing)		E (Flushed)		G (Standing)		G (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889111		889112		889113		889114			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	2.54	0.1	0.65	0.1	1.03	0.1	0.25	0.1	ug/L	10

Sample Description	H (Standing)		H (Flushed)		Units	Criteria: O.Reg. 243/07
Lab ID	889115		889116			
Metals	Result	MDL	Result	MDL		
Lead	5.71 [5.78]	0.1	1	0.1	ug/L	10



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Work Order Number: 309079

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.



CERTIFICATE OF ANALYSIS

RDSB - Manitoulin Secondary School

Work Order Number: 309079

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							
%RPD							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	0	1.2	20	20170625.R13-5o1	
Method Blank							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	0	<1	1	20170625.R13-5o	
Lead	1	ug/L	0	<1	1	20170625.R13-5o1	
Positive Control							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	80	94.5	120	20170625.R13-5o1	
Lead	N/A	%	80	95.9	120	20170625.R13-5o	
Reference Sample							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	80	101	120	20170625.R13-5o1	
Lead	N/A	% Rec	80	102	120	20170625.R13-5o	
Sample Spike							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	92.1	130	20170625.R13-5o1	
Lead	N/A	% Rec	70	94.7	130	20170625.R13-5o	



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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
29A (Flushed)	889110	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
29A (Standing)	889109	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
A (Flushed)	889104	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
A (Standing)	889103	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
C (Flushed)	889106	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
C (Standing)	889105	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
D10 (Flushed)	889108	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
D10 (Standing)	889107	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
E (Flushed)	889112	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
E (Standing)	889111	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
G (Flushed)	889114	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
G (Standing)	889113	ICPMS Reg. Water	20170625.R13-5o	20170623.R52P
H (Flushed)	889116	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
H (Standing)	889115	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q
H (Standing)	889115r	ICPMS Reg. Water	20170625.R13-5o1	20170623.R52Q