



## CERTIFICATE OF ANALYSIS

Client: Mark Bocy  
Company: RDSB - Lo-Ellen Park Secondary School  
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Work Order Number: 314002  
PO #: 706LW1736503  
Regulation: O.Reg. 243/07  
Project #:  
DWS #: 500040379  
Sampled By: B Aubrey

Date Order Received: 8/17/2017  
Arrival Temperature: 16 °C

Analysis Started: 8/23/2017  
Analysis Completed: 8/25/2017

### 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
DWS 1 STANDING	906581	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	8/15/2017	1:25 PM
DWS 1 FLUSHING	906582	Water	Plumbing		8/15/2017	1:55 PM
DWF 1 STANDING	906583	Water	Plumbing		8/15/2017	2:10 PM
DWF 1 FLUSHING	906584	Water	Plumbing		8/15/2017	2:40 PM
DWF 2 STANDING	906585	Water	Plumbing		8/17/2017	8:30 AM
DWF 2 FLUSHING	906586	Water	Plumbing		8/17/2017	9:03 AM
DWF 3 STANDING	906587	Water	Plumbing		8/16/2017	6:30 AM
DWF 3 FLUSHING	906588	Water	Plumbing		8/16/2017	7:00 AM
BF 1 STANDING	906589	Water	Plumbing		8/16/2017	10:55 AM
BF1 FLUSHING	906590	Water	Plumbing		8/16/2017	11:25 AM
DWF 4 STANDING	906591	Water	Plumbing		8/16/2017	6:35 AM
DWF 4 FLUSHING	906592	Water	Plumbing		8/16/2017	7:05 AM
DWS 2 STANDING	906593	Water	Plumbing		8/15/2017	1:22 PM
DWS 2 FLUSHING	906594	Water	Plumbing		8/15/2017	1:52 PM
DWF 5 STANDING	906595	Water	Plumbing		8/15/2017	1:05 PM
DWF 5 FLUSHING	906596	Water	Plumbing		8/15/2017	1:35 PM
DWF 6 STANDING	906597	Water	Plumbing		8/16/2017	7:45 AM
DWF 6 FLUSHING	906598	Water	Plumbing		8/16/2017	8:15 AM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
DWF 7 STANDING	906599	Water	Plumbing		8/17/2017	7:00 AM
DWF 7 FLUSHING	906600	Water	Plumbing		8/17/2017	7:30 AM
DWS 4 STANDING	906601	Water	Plumbing		8/16/2017	8:25 AM
DWS 4 FLUSHING	906602	Water	Plumbing		8/16/2017	8:55 AM
DWS 7 STANDING	906603	Water	Plumbing		8/16/2017	9:30 AM
DWS 7 FLUSHING	906604	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	8/16/2017	10:00 AM
DWS 8 STANDING	906605	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	8/17/2017	7:15 AM
DWS 8 FLUSHING	906606	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	8/17/2017	7:45 AM
BF 2 STANDING	906607	Water	Plumbing		8/16/2017	9:45 AM
BF 2 FLUSHING	906608	Water	Plumbing		8/16/2017	10:15 AM
DWF 8 STANDING	906609	Water	Plumbing		8/17/2017	7:32 AM
DWF 8 FLUSHING	906610	Water	Plumbing		8/17/2017	8:02 AM
DWS 9 STANDING	906611	Water	Plumbing		8/16/2017	1:30 PM
DWS 9 FLUSHING	906612	Water	Plumbing		8/16/2017	2:00 PM
DWF 9 STANDING	906613	Water	Plumbing		8/16/2017	1:35 PM
DWF 9 FLUSHING	906614	Water	Plumbing		8/16/2017	2:05 PM
DWS 3 STANDING	906615	Water	Plumbing		8/16/2017	9:00 PM
DWS 3 FLUSHING	906616	Water	Plumbing		8/16/2017	9:30 PM

### METHODS AND INSTRUMENTATION

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

Method	Lab	Description	Reference
ICPMS Reg. Water (R13.1)	Garson	Determination of Metals in Water by ICP/MS	Based on SW846-6020A

### REPORT COMMENTS

Lead exceedance reported for sample 906581. 08/24/17 JC  
Lead exceedance reported for samples 906604, 906605 and 906606. 08/25/17 JC



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This report has been approved by:

Khaled Omari, Ph.D.  
Laboratory Director



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**WORK ORDER RESULTS**

Sample Description	DWS 1 STANDING		DWS 1 FLUSHING		DWF 1 STANDING		DWF 1 FLUSHING		Units	Criteria: O.Reg. 243/07
Lab ID	906581		906582		906583		906584			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	17.4	0.1	0.99	0.1	3.83	0.1	<0.1	0.1	ug/L	10
Sample Description	DWF 2 STANDING		DWF 2 FLUSHING		DWF 3 STANDING		DWF 3 FLUSHING		Units	Criteria: O.Reg. 243/07
Lab ID	906585		906586		906587		906588			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	<0.1	0.1	<0.1 [<0.1]	0.1	1.03	0.1	0.23	0.1	ug/L	10
Sample Description	BF 1 STANDING		BF1 FLUSHING		DWF 4 STANDING		DWF 4 FLUSHING		Units	Criteria: O.Reg. 243/07
Lab ID	906589		906590		906591		906592			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	<0.1	0.1	<0.1	0.1	3.86	0.1	<0.1	0.1	ug/L	10
Sample Description	DWS 2 STANDING		DWS 2 FLUSHING		DWF 5 STANDING		DWF 5 FLUSHING		Units	Criteria: O.Reg. 243/07
Lab ID	906593		906594		906595		906596			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
Lead	0.15	0.1	2.44	0.1	1.87	0.1	<0.1	0.1	ug/L	10
Sample Description	DWF 6 STANDING		DWF 6 FLUSHING		DWF 7 STANDING		DWF 7 FLUSHING		Units	Criteria: O.Reg. 243/07
Lab ID	906597		906598		906599		906600			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL		
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	DWS 4 STANDING		DWS 4 FLUSHING		DWS 7 STANDING		DWS 7 FLUSHING			
Lab ID	906601		906602		906603		906604			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.06	0.1	2.27	0.1	6.83	0.1	25.3	0.1	ug/L	10
Sample Description	DWS 8 STANDING		DWS 8 FLUSHING		BF 2 STANDING		BF 2 FLUSHING			
Lab ID	906605		906606		906607		906608			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	68.7	0.1	29.9	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	DWF 8 STANDING		DWF 8 FLUSHING		DWS 9 STANDING		DWS 9 FLUSHING			
Lab ID	906609		906610		906611		906612			
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	2.91	0.1	0.64	0.1	ug/L	10
Sample Description	DWF 9 STANDING		DWF 9 FLUSHING		DWS 3 STANDING		DWS 3 FLUSHING			
Lab ID	906613		906614		906615		906616			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	2.94	0.1	<0.1	0.1	7.46	0.1	1.31	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.



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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.

<b>Metals</b>							
<b>Method Blank</b>							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	0	<1	1	20170823.R13-5o2	
Lead	1	ug/L	0	<1	1	20170824.R13-6o0	
Lead	1	ug/L	0	<1	1	20170824.R13-6o1	
Lead	1	ug/L	0	<1	1	20170824.R13-6o2	
<b>Positive Control</b>							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	80	93	120	20170824.R13-6o1	
Lead	N/A	%	80	94.8	120	20170824.R13-6o2	
Lead	N/A	%	80	94.9	120	20170823.R13-5o2	
Lead	N/A	%	80	95.9	120	20170824.R13-6o0	
<b>Reference Sample</b>							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	80	94.4	120	20170824.R13-6o1	
Lead	N/A	% Rec	80	96.9	120	20170824.R13-6o2	
Lead	N/A	% Rec	80	98.1	120	20170824.R13-6o0	
Lead	N/A	% Rec	80	98.4	120	20170823.R13-5o2	
<b>Sample Spike</b>							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	85.3	130	20170824.R13-6o0	
Lead	N/A	% Rec	70	89.1	130	20170824.R13-6o1	
Lead	N/A	% Rec	70	92.3	130	20170824.R13-6o2	
Lead	N/A	% Rec	70	93.2	130	20170823.R13-5o2	



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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
BF 1 STANDING	906589	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
BF 2 FLUSHING	906608	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
BF 2 STANDING	906607	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
BF1 FLUSHING	906590	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 1 FLUSHING	906584	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
DWF 1 STANDING	906583	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
DWF 2 FLUSHING	906586	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 2 FLUSHING	906586r	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 2 STANDING	906585	ICPMS Reg. Water (R13.1)	20170824.R13-6o2	20170824.R52C
DWF 3 FLUSHING	906588	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
DWF 3 STANDING	906587	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
DWF 4 FLUSHING	906592	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 4 STANDING	906591	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 5 FLUSHING	906596	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 5 STANDING	906595	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 6 FLUSHING	906598	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 6 STANDING	906597	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 7 FLUSHING	906600	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 7 STANDING	906599	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWF 8 FLUSHING	906610	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWF 8 STANDING	906609	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWF 8 STANDING	906609r	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWF 9 FLUSHING	906614	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWF 9 STANDING	906613	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWS 1 FLUSHING	906582	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
DWS 1 STANDING	906581	ICPMS Reg. Water (R13.1)	20170823.R13-5o2	20170823.R52E
DWS 2 FLUSHING	906594	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 2 STANDING	906593	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 3 FLUSHING	906616	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWS 3 STANDING	906615	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWS 4 FLUSHING	906602	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K





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DWS 4 STANDING	906601	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 7 FLUSHING	906604	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 7 STANDING	906603	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 8 FLUSHING	906606	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 8 STANDING	906605	ICPMS Reg. Water (R13.1)	20170824.R13-6o1	20170824.R52K
DWS 9 FLUSHING	906612	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N
DWS 9 STANDING	906611	ICPMS Reg. Water (R13.1)	20170824.R13-6o0	20170824.R52N