



TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

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Work Order Number: 346727
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500039105
Sampled By: Steve McCulloch

Date Order Received: 6/13/2018
Arrival Temperature: 17 °C

Analysis Started: 6/18/2018
Analysis Completed: 6/19/2018

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
28 (Standing)	1351081	Water	Plumbing		6/13/2018	6:52 AM
28 (Flushed)	1351082	Water	Plumbing		6/13/2018	7:27 AM
20 Standing	1351083	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/13/2018	6:53 AM
20 Flushed	1351084	Water	Plumbing		6/13/2018	7:28 AM
14 Standing	1351085	Water	Plumbing		6/13/2018	6:54 AM
14 Flushed	1351086	Water	Plumbing		6/13/2018	7:29 AM
30B Standing	1351087	Water	Plumbing		6/13/2018	6:49 AM
30B Flushed	1351088	Water	Plumbing		6/13/2018	7:26 AM
34 Standing	1351089	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/13/2018	6:48 AM
34 Flushed	1351090	Water	Plumbing		6/13/2018	7:22 AM
33 Standing	1351091	Water	Plumbing		6/13/2018	6:44 AM
33 Flushed	1351092	Water	Plumbing		6/13/2018	7:18 AM
F Standing	1351093	Water	Plumbing		6/13/2018	6:40 AM
F Flushed	1351094	Water	Plumbing		6/13/2018	7:15 AM
2B Standing	1351095	Water	Plumbing		6/13/2018	6:42 AM
2B Flushed	1351096	Water	Plumbing		6/13/2018	7:17 AM

METHODS AND INSTRUMENTATION

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



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

REPORT COMMENTS

ESTIMATED STANDING TIME: 9 hrs
Lead exceedance reported for samples 1351083 and 1351089. 06/19/18 DC

This report has been approved by:

Khaled Omari, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	28 (Standing)		28 (Flushed)		20 Standing		20 Flushed			
Lab ID	1351081		1351082		1351083		1351084			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	5.55 [5.54]	0.1	1.94	0.1	17.7	0.1	7.07	0.1	ug/L	10
Sample Description	14 Standing		14 Flushed		30B Standing		30B Flushed			
Lab ID	1351085		1351086		1351087		1351088			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.45	0.1	1.5	0.1	6.34	0.1	2.71	0.1	ug/L	10
Sample Description	34 Standing		34 Flushed		33 Standing		33 Flushed			
Lab ID	1351089		1351090		1351091		1351092			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	75.4	0.1	1.54	0.1	3.52	0.1	1.44	0.1	ug/L	10
Sample Description	F Standing		F Flushed		2B Standing		2B Flushed			
Lab ID	1351093		1351094		1351095		1351096			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.59	0.1	0.26	0.1	0.29	0.1	0.21	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.

Metals							
Method Blank: LRB-6 (Blank- µg/L) (6)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	0	<1	1	20180619.R13-6o1	
Sample Spike: LFMS-10 (N 100 µg/L) (10)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	79.7	130	20180619.R13-6o1	
Reference Sample: CRM-12 (EP-L-3) (12)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	80	90.8	120	20180619.R13-6o1	
%RPD: % RPD (4)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	0	0.2	20	20180619.R13-6o1	
Positive Control: LFB-7 (N 100 µg/L) (7)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	80	86.3	120	20180619.R13-6o1	



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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
14 Flushed	1351086	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
14 Standing	1351085	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
20 Flushed	1351084	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
20 Standing	1351083	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
28 (Flushed)	1351082	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
28 (Standing)	1351081	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
28 (Standing)	1351081r	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
2B Flushed	1351096	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
2B Standing	1351095	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
30B Flushed	1351088	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
30B Standing	1351087	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
33 Flushed	1351092	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
33 Standing	1351091	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
34 Flushed	1351090	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
34 Standing	1351089	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
F Flushed	1351094	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S
F Standing	1351093	ICPMS Reg. Water (R13.1)	20180619.R13-6o1	20180618.A52S