



TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

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Work Order Number: 346724
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500039027
Sampled By: Steve McCulloch

Date Order Received: 6/13/2018
Arrival Temperature: 10 °C

Analysis Started: 6/19/2018
Analysis Completed: 6/20/2018

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
12A (Standing)	1351071	Water	Plumbing		6/13/2018	7:00 AM
12A (Flushed)	1351072	Water	Plumbing		6/13/2018	7:35 AM
A Standing	1351073	Water	Plumbing		6/13/2018	7:02 AM
A Flushed	1351074	Water	Plumbing		6/13/2018	7:37 AM
23 Standing	1351075	Water	Plumbing		6/13/2018	7:04 AM
23 Flushed	1351076	Water	Plumbing		6/13/2018	7:39 AM
E Standing	1351077	Water	Plumbing		6/13/2018	7:06 AM
E Flushed	1351078	Water	Plumbing		6/13/2018	7:41 AM

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	Modified from SW846-6020A

REPORT COMMENTS

ESTIMATED STANDING TIME: 8 hrs



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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	12A (Standing)		12A (Flushed)		A Standing		A Flushed			
Lab ID	1351071		1351072		1351073		1351074			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.11	0.1	<0.1	0.1	2.13	0.1	0.45	0.1	ug/L	10

Sample Description	23 Standing		23 Flushed		E Standing		E Flushed			
Lab ID	1351075		1351076		1351077		1351078			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.35 [0.35]	0.1	0.13	0.1	2.13	0.1	0.51	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.

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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							
Positive Control: LFB-7 (N 100 µg/L) (7)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	%	80	87	120	20180620.R13.1F	
Lead	N/A	%	80	86.5	120	20180620.R13.1E	
Method Blank: LRB-6 (Blank- µg/L) (6)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	1	ug/L	0	<1	1	20180620.R13.1F	
Lead	1	ug/L	0	<1	1	20180620.R13.1E	
Sample Spike: LFMS-10 (N 100 µg/L) (10)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	% Rec	70	85.1	130	20180620.R13.1E	
Lead	N/A	% Rec	70	87.3	130	20180620.R13.1F	
Reference Sample: CRM-12 (EP-L-3) (12)							
Parameter	MDL	Units	LCL	Result	UCL	QAQCID	
Lead	N/A	ug/L	3.65	3.75	4.35	20180620.R13.1F	
Lead	N/A	ug/L	3.65	3.69	4.35	20180620.R13.1E	

THIS INDEX SHOWS HOW YOUR SAMPLES ARE ASSOCIATED TO THE CONTROLS INCLUDED IN THE IDENTIFIED BATCHES.

Sample Description	Lab ID	Method	QAQCID	Prep QAQCID
12A (Flushed)	1351072	ICPMS Reg. Water (R13.1)	20180620.R13.1E	20180619.A52N
12A (Standing)	1351071	ICPMS Reg. Water (R13.1)	20180620.R13.1E	20180619.A52N
23 Flushed	1351076	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
23 Standing	1351075	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
23 Standing	1351075r	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
A Flushed	1351074	ICPMS Reg. Water (R13.1)	20180620.R13.1E	20180619.A52N
A Standing	1351073	ICPMS Reg. Water (R13.1)	20180620.R13.1E	20180619.A52N
E Flushed	1351078	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O
E Standing	1351077	ICPMS Reg. Water (R13.1)	20180620.R13.1F	20180619.A52O