



TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Client: Steve McCulloch
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Work Order Number: 375539
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500001132
Sampled By: Steve McCulloch

Date Order Received: 6/18/2019
Arrival Temperature: 15 °C

Analysis Started: 6/23/2019
Analysis Completed: 6/24/2019

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
139 Standing (S)	1449822	Water	Plumbing		6/18/2019	6:05 AM
139 Flushed (F)	1449823	Water	Plumbing		6/18/2019	6:40 AM
140 S	1449824	Water	Plumbing		6/18/2019	6:07 AM
140 F	1449825	Water	Plumbing		6/18/2019	6:47 AM
132 S	1449826	Water	Plumbing		6/18/2019	6:09 AM
132 F	1449827	Water	Plumbing		6/18/2019	6:49 AM
133 S	1449828	Water	Plumbing		6/18/2019	6:11 AM
133 F	1449829	Water	Plumbing		6/18/2019	6:52 AM
124C Standing (S)	1449830	Water	Plumbing		6/18/2019	6:13 AM
124C Flushed (F)	1449831	Water	Plumbing		6/18/2019	6:54 AM
124B S	1449832	Water	Plumbing		6/18/2019	6:15 AM
124B F	1449833	Water	Plumbing		6/18/2019	6:56 AM
103A S	1449834	Water	Plumbing		6/18/2019	6:17 AM
103A F	1449835	Water	Plumbing		6/18/2019	6:58 AM
107 S	1449836	Water	Plumbing		6/18/2019	6:19 AM
107 F	1449837	Water	Plumbing		6/18/2019	7:00 AM



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Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
106 Standing (S)	1449838	Water	Plumbing		6/18/2019	6:21 AM
106 Flushed (F)	1449839	Water	Plumbing	SAMPLE CONTAINED RESULT EXCEEDENCES.	6/18/2019	7:02 AM
B2 S	1449840	Water	Plumbing		6/18/2019	6:23 AM
B2 F	1449841	Water	Plumbing		6/18/2019	7:04 AM
C3 S	1449842	Water	Plumbing		6/18/2019	6:25 AM
C3 F	1449843	Water	Plumbing		6/18/2019	7:06 AM

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

REPORT COMMENTS

Lead exceedance reported for sample 1449839. 06/24/19 JC

This report has been approved by:

Mark Charbonneau, Ph.D.
Laboratory Director



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WORK ORDER RESULTS

Sample Description	139 Standing (S)		139 Flushed (F)		140 S		140 F			
Lab ID	1449822		1449823		1449824		1449825			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.4	0.1	<0.1	0.1	<0.1	0.1	<0.1	0.1	ug/L	10
Sample Description	132 S		132 F		133 S		133 F			
Lab ID	1449826		1449827		1449828		1449829			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.2	0.1	0.5	0.1	1.5	0.1	1.1 [1.2]	0.1	ug/L	10
Sample Description	124C Standing (S)		124C Flushed (F)		124B S		124B F			
Lab ID	1449830		1449831		1449832		1449833			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	3.3	0.1	0.3	0.1	3	0.1	0.2	0.1	ug/L	10
Sample Description	103A S		103A F		107 S		107 F			
Lab ID	1449834		1449835		1449836		1449837			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.3	0.1	0.1	0.1	2	0.1	1.6	0.1	ug/L	10
Sample Description	106 Standing (S)		106 Flushed (F)		B2 S		B2 F			
Lab ID	1449838		1449839		1449840		1449841			
Metals	Result	MDL	Result	MDL	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	2.6	0.1	12.3	0.1	<0.1	0.1	<0.1	0.1	ug/L	10



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Sample Description	C3 S		C3 F			
Lab ID	1449842		1449843			
Metals	Result	MDL	Result	MDL	Units	Criteria: O.Reg. 243/07
Lead	0.7	0.1	1.9	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.

Exceedences: HIGHLIGHTED CELLS INDICATE THAT THE RESULT EXCEEDS A REGULATORY LIMIT. CALCULATED UNCERTAINTY ESTIMATIONS ARE NOT APPLIED FOR DETERMINING SAMPLE EXCEEDANCES.

Benzo(b)fluoranthene: Results for benzo(b)fluoranthene may include contributions from benzo(j)fluoranthene.

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.



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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	20190624.A13.1B
Lead	1	ug/L	0	<1	1	20190624.A13.1D

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	80	87.2	120	20190624.A13.1B
Lead	N/A	%	80	88.7	120	20190624.A13.1D

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

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	1	ug/L	3.65	3.66	4.35	20190624.A13.1B
Lead	1	ug/L	3.65	3.69	4.35	20190624.A13.1D

Sample Replicate: % RPD (4)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	%	0	8.7	20	20190624.A13.1B

Sample Spike: LFMS-9 (N 100 µg/L) (9)

Parameter	MDL	Units	LCL	Result	UCL	QAQCID
Lead	N/A	% Rec	70	86.5	130	20190624.A13.1D
Lead	N/A	% Rec	70	90.7	130	20190624.A13.1B



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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
103A F	1449835	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
103A S	1449834	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
106 Flushed (F)	1449839	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
106 Standing (S)	1449838	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
107 F	1449837	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
107 S	1449836	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
124B F	1449833	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
124B S	1449832	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
124C Flushed (F)	1449831	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
124C Standing (S)	1449830	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
132 F	1449827	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
132 S	1449826	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
133 F	1449829	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
133 F	1449829r	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
133 S	1449828	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
139 Flushed (F)	1449823	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
139 Standing (S)	1449822	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
140 F	1449825	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
140 S	1449824	ICPMS Reg. Water (A13)	20190624.A13.1B	20190623.A52F
B2 F	1449841	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
B2 S	1449840	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
C3 F	1449843	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G
C3 S	1449842	ICPMS Reg. Water (A13)	20190624.A13.1D	20190623.A52G