



TESTMARK Laboratories Ltd.

Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Client: Mark Bocy
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Work Order Number: 347306
PO #:
Regulation: O.Reg. 243/07
Project #:
DWS #: 500039053
Sampled By: Steve McCulloch

Date Order Received: 6/19/2018
Arrival Temperature: 16 °C

Analysis Started: 6/22/2018
Analysis Completed: 6/26/2018

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 |
|--------------------|---------|--------|----------|----------|----------------|----------------|
| 228 A (Standing) | 1353537 | Water | Plumbing | | 6/19/2018 | 6:04 AM |
| 228 A (Flushed) | 1353538 | Water | Plumbing | | 6/19/2018 | 6:39 AM |
| 173 Standing | 1353539 | Water | Plumbing | | 6/19/2018 | 6:06 AM |
| 173 Flushed | 1353540 | Water | Plumbing | | 6/19/2018 | 6:41 AM |
| 68 Standing | 1353541 | Water | Plumbing | | 6/19/2018 | 6:00 AM |
| 68 Flushed | 1353542 | Water | Plumbing | | 6/19/2018 | 6:35 AM |
| E80 Standing | 1353543 | Water | Plumbing | | 6/19/2018 | 6:00 AM |
| E80 Flushed | 1353544 | Water | Plumbing | | 6/19/2018 | 6:37 AM |
| E223 Standing | 1353545 | Water | Plumbing | | 6/19/2018 | 6:09 AM |
| E223 Flushed | 1353546 | Water | Plumbing | | 6/19/2018 | 6:44 AM |
| C119 B Standing | 1353547 | Water | Plumbing | | 6/19/2018 | 6:02 AM |
| C119 B Flushed | 1353548 | Water | Plumbing | | 6/19/2018 | 6:37 AM |
| C119 A Standing | 1353549 | Water | Plumbing | | 6/18/2018 | 6:00 AM |
| C119 A Flushed | 1353550 | Water | Plumbing | | 6/18/2018 | 6:35 AM |
| D51 Standing | 1353551 | Water | Plumbing | | 6/19/2018 | 6:07 AM |
| D51 Flushed | 1353552 | Water | Plumbing | | 6/19/2018 | 6:42 AM |
| C109 Standing | 1353553 | Water | Plumbing | | 6/19/2018 | 6:04 AM |
| C109 Flushed | 1353554 | Water | Plumbing | | 6/19/2018 | 6:39 AM |
| A06 Standing | 1353555 | Water | Plumbing | | 6/19/2018 | 6:05 AM |



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| Sample Description | Lab ID | Matrix | Type | Comments | Date Collected | Time Collected |
|--------------------|---------|--------|----------|----------|----------------|----------------|
| A06 Flushed | 1353556 | Water | Plumbing | | 6/19/2018 | 6:41 AM |
| A125 E Standing | 1353557 | Water | Plumbing | | 6/19/2018 | 6:13 AM |
| A125 E Flushed | 1353558 | Water | Plumbing | | 6/19/2018 | 6:48 AM |
| E83 Standing | 1353559 | Water | Plumbing | | 6/19/2018 | 6:11 AM |
| E83 Flushed | 1353560 | Water | Plumbing | | 6/19/2018 | 6:46 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: 8hrs

This report has been approved by:

Khaled Omari, Ph.D.
Laboratory Director

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WORK ORDER RESULTS

| Sample Description | 228 A (Standing) | | 228 A (Flushed) | | 173 Standing | | 173 Flushed | | | |
|--------------------|------------------|-----|-----------------|-----|--------------|-----|-------------|-----|-------|-------------------------|
| Lab ID | 1353537 | | 1353538 | | 1353539 | | 1353540 | | | |
| Metals | Result | MDL | Result | MDL | Result | MDL | Result | MDL | Units | Criteria: O.Reg. 243/07 |
| Lead | 0.6 | 0.1 | 0.11 | 0.1 | 0.17 | 0.1 | 0.12 | 0.1 | ug/L | 10 |

| Sample Description | 68 Standing | | 68 Flushed | | E80 Standing | | E80 Flushed | | | |
|--------------------|-------------|-----|------------|-----|--------------|-----|-------------|-----|-------|-------------------------|
| Lab ID | 1353541 | | 1353542 | | 1353543 | | 1353544 | | | |
| Metals | Result | MDL | Result | MDL | Result | MDL | Result | MDL | Units | Criteria: O.Reg. 243/07 |
| Lead | 0.29 | 0.1 | 0.24 | 0.1 | <0.1 | 0.1 | <0.1 | 0.1 | ug/L | 10 |

| Sample Description | E223 Standing | | E223 Flushed | | C119 B Standing | | C119 B Flushed | | | |
|--------------------|---------------|-----|--------------|-----|-----------------|-----|----------------|-----|-------|-------------------------|
| Lab ID | 1353545 | | 1353546 | | 1353547 | | 1353548 | | | |
| Metals | Result | MDL | Result | MDL | Result | MDL | Result | MDL | Units | Criteria: O.Reg. 243/07 |
| Lead | 0.47 | 0.1 | 0.51 | 0.1 | 1.25 | 0.1 | 0.3 | 0.1 | ug/L | 10 |

| Sample Description | C119 A Standing | | C119 A Flushed | | D51 Standing | | D51 Flushed | | | |
|--------------------|-----------------|-----|----------------|-----|--------------|-----|-------------|-----|-------|-------------------------|
| Lab ID | 1353549 | | 1353550 | | 1353551 | | 1353552 | | | |
| Metals | Result | MDL | Result | MDL | Result | MDL | Result | MDL | Units | Criteria: O.Reg. 243/07 |
| Lead | 5.52 [5.64] | 0.1 | 0.88 | 0.1 | 0.15 | 0.1 | <0.1 | 0.1 | ug/L | 10 |

| Sample Description | C109 Standing | | C109 Flushed | | A06 Standing | | A06 Flushed | | | |
|--------------------|---------------|-----|--------------|-----|--------------|-----|-------------|-----|-------|-------------------------|
| Lab ID | 1353553 | | 1353554 | | 1353555 | | 1353556 | | | |
| Metals | Result | MDL | Result | MDL | Result | MDL | Result | MDL | Units | Criteria: O.Reg. 243/07 |
| Lead | 0.7 | 0.1 | 0.19 | 0.1 | 0.47 | 0.1 | 0.41 | 0.1 | ug/L | 10 |



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| Sample Description | A125 E Standing | | A125 E Flushed | | E83 Standing | | E83 Flushed | | | |
|--------------------|-----------------|-----|----------------|-----|--------------|-----|-------------|-----|-------|----------------------------|
| Lab ID | 1353557 | | 1353558 | | 1353559 | | 1353560 | | | |
| Metals | Result | MDL | Result | MDL | Result | MDL | Result | MDL | Units | Criteria: O.Reg. 243/07 |
| Lead | 0.33 | 0.1 | 0.14 | 0.1 | 0.4 | 0.1 | 0.11 | 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 | | | | | | | |
|---|-----|-------|------|--------|------|-----------------|--|
| Method Blank: LRB-6 (Blank- µg/L) (6) | | | | | | | |
| Parameter | MDL | Units | LCL | Result | UCL | QAQCID | |
| Lead | 1 | ug/L | 0 | <1 | 1 | 20180626.R13.1E | |
| Lead | 1 | ug/L | 0 | <1 | 1 | 20180626.R13.1D | |
| Positive Control: LFB-7 (N 100 µg/L) (7) | | | | | | | |
| Parameter | MDL | Units | LCL | Result | UCL | QAQCID | |
| Lead | N/A | % | 80 | 90.1 | 120 | 20180626.R13.1E | |
| Lead | N/A | % | 80 | 91.3 | 120 | 20180626.R13.1D | |
| Sample Spike: LFMS-9 (N 100 µg/L) (9) | | | | | | | |
| Parameter | MDL | Units | LCL | Result | UCL | QAQCID | |
| Lead | N/A | % Rec | 70 | 90.9 | 130 | 20180626.R13.1E | |
| Lead | N/A | % Rec | 70 | 86.2 | 130 | 20180626.R13.1D | |
| Reference Sample: CRM-12 (EP-L-3) (12) | | | | | | | |
| Parameter | MDL | Units | LCL | Result | UCL | QAQCID | |
| Lead | N/A | ug/L | 3.65 | 3.86 | 4.35 | 20180626.R13.1D | |
| Lead | N/A | ug/L | 3.65 | 3.84 | 4.35 | 20180626.R13.1E | |
| %RPD: % RPD (4) | | | | | | | |
| Parameter | MDL | Units | LCL | Result | UCL | QAQCID | |
| Lead | N/A | % | 0 | 0.8 | 20 | 20180626.R13.1D | |
| Lead | N/A | % | 0 | 2.2 | 20 | 20180626.R13.1E | |



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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 |
|--------------------|----------|--------------------------|-----------------|---------------|
| 173 Flushed | 1353540 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| 173 Standing | 1353539 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| 228 A (Flushed) | 1353538 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| 228 A (Standing) | 1353537 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| 68 Flushed | 1353542 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| 68 Standing | 1353541 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| A06 Flushed | 1353556 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| A06 Standing | 1353555 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| A125 E Flushed | 1353558 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| A125 E Standing | 1353557 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| C109 Flushed | 1353554 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| C109 Standing | 1353553 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| C119 A Flushed | 1353550 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| C119 A Standing | 1353549 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| C119 A Standing | 1353549r | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| C119 B Flushed | 1353548 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| C119 B Standing | 1353547 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| D51 Flushed | 1353552 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| D51 Standing | 1353551 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| E223 Flushed | 1353546 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| E223 Standing | 1353545 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| E80 Flushed | 1353544 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| E80 Standing | 1353543 | ICPMS Reg. Water (R13.1) | 20180626.R13.1D | 20180622.A52R |
| E83 Flushed | 1353560 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |
| E83 Standing | 1353559 | ICPMS Reg. Water (R13.1) | 20180626.R13.1E | 20180622.A52S |