



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1210

Tidewater

Project Name: Frederick County Public Schools

Meneka Rodrigo
6625 Selnick Drive, Suite A
Elkridge, MD 21075

Project / PO Number: Emmitsburg Elementary
Received: 10/23/2018
Reported: 11/21/2018

Analytical Testing Parameters

Table with sample details: Client Sample ID: W01A-031040 (DF) TEST POINT, Sample Matrix: Drinking Water, Lab Sample ID: 18J1210-01, Collected By: Walter Gonzalez, Collection Date: 10/23/2018 4:09

Table header: Metals, Total by EPA 200 Series Methods, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row: Lead, <1.0, 20.0, 1.0, ppb, 10/24/18 1113, 10/24/18 1416, LMH

Table with sample details: Client Sample ID: W01A-06 1040 (DF) TEST POINT, Sample Matrix: Drinking Water, Lab Sample ID: 18J1210-02, Collected By: Walter Gonzalez, Collection Date: 10/23/2018 4:12

Table header: Metals, Total by EPA 200 Series Methods, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row: Lead, 2.2, 20.0, 1.0, ppb, 10/24/18 1113, 10/24/18 1420, LMH

Table with sample details: Client Sample ID: W01A-01 1040 (DF) TEST POINT, Sample Matrix: Drinking Water, Lab Sample ID: 18J1210-03, Collected By: Walter Gonzalez, Collection Date: 10/23/2018 4:15

Table header: Metals, Total by EPA 200 Series Methods, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row: Lead, <1.0, 20.0, 1.0, ppb, 10/24/18 1113, 10/24/18 1421, LMH

Table with sample details: Client Sample ID: S23-01 1040 (TL) TEST POINT, Sample Matrix: Drinking Water, Lab Sample ID: 18J1210-04, Collected By: Walter Gonzalez, Collection Date: 10/23/2018 4:17

Table header: Metals, Total by EPA 200 Series Methods, Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row: Lead, 2.6, 20.0, 1.0, ppb, 10/24/18 1113, 10/24/18 1422, LMH



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Client Sample ID: W01B-01 1040 (DF) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:19
Lab Sample ID: 18J1210-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.4	20.0	1.0	ppb		10/24/18 1113	10/24/18 1423	LMH

Client Sample ID: W01B-02 1040 (DF) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:20
Lab Sample ID: 18J1210-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	12.2	20.0	1.0	ppb		10/24/18 1113	10/24/18 1423	LMH

Client Sample ID: S23-28 1040 (NO) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:22
Lab Sample ID: 18J1210-07	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.5	20.0	1.0	ppb		10/24/18 1113	10/24/18 1427	LMH

Client Sample ID: K31-01-1040 (KS) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:28
Lab Sample ID: 18J1210-08	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	6.6	20.0	1.0	ppb		10/24/18 1113	10/24/18 1427	LMH



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CERTIFICATE OF ANALYSIS

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Client Sample ID: K31-02 1040 (KS) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:29
Lab Sample ID: 18J1210-09	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8								
Lead	4.2	20.0	1.0	ppb		10/24/18 1113	10/24/18 1428	LMH

Client Sample ID: K17-01 1040 (IM) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:23
Lab Sample ID: 18J1210-10	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8								
Lead	10.6	20.0	1.0	ppb		10/24/18 1113	10/24/18 1429	LMH

Client Sample ID: W01A-02 1040 (DF) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:33
Lab Sample ID: 18J1210-11	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8								
Lead	1.4	20.0	1.0	ppb		10/24/18 1113	10/24/18 1430	LMH

Client Sample ID: W01A-04 1040 (DF) TEST POINT	Collected By: Walter Gomzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:36
Lab Sample ID: 18J1210-12	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8								
Lead	1.2	20.0	1.0	ppb		10/24/18 1113	10/24/18 1432	LMH



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CERTIFICATE OF ANALYSIS

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Client Sample ID: W01A-05 1040 (DF) TEST POINT	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/23/2018 4:38
Lab Sample ID: 18J1210-13	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	2.8	20.0	1.0	ppb		10/24/18 1113	10/24/18 1433	LMH

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 15.4°C

Cooler Inspection Checklist

Custody Seals Intact	Yes	Containers Intact	Yes
Received on ice or not required.	Yes	Radiation Scan Acceptable or not required.	Yes
COC Present	Yes	COC/Containers Agree	Yes
Correct Preservation	Yes	Correct Number of Containers Received	Yes
Sufficient Sample Volume	Yes	Proper Condition	Yes

Project Requested Certification(s)

Microbac Laboratories, Inc. - Baltimore
109

State of Maryland (Drinking Water)

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Isang Isang
Client Relations

Reported: 11/21/2018 15:35

Reviewed By: II

18J1210

Date: 10/23/18



Multiple Sample COC

Site: **Emmitsburg Elementary: 300 S. Seton Avenue, Emmitsburg, MD 21727, Office Ph.: 240-236-1750**

Date Sampled: **Tuesday, October 23, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28)	Sampler's Name
1	Across from RM 109	Drinking Fountain, Refrigerated	W01A-03 1040 (DF) Test Point @ 4:09 AM	10/23/2018	Walter Gonzales
2	Art Room	Drinking Fountain, Refrigerated	W01A-06 1040 (DF) Test Point @ 4:12 AM	10/23/2018	Walter Gonzales
3	Cafe	Drinking Fountain, Refrigerated	W01A-01 1040 (DF) Test Point 4:15 AM	10/23/2018	Walter Gonzales
4	Front Entrance Rest Room	Non-Kitchen lavatory/Sink	S23-01 1040 (TL) Test Point 4:17 AM	10/23/2018	Walter Gonzales
5	Gym	Drinking Fountain, Non-Refrigerated	W01B-01 1040 (DF) Test Point 4:19 AM	10/23/2018	Walter Gonzales
6	Gym	Drinking Fountain, Non-Refrigerated	W01B-02 1040 (DF) Test Point 4:20 AM	10/23/2018	Walter Gonzales
7	Health Rm	Non-Kitchen lavatory/Sink	S23-28 1040 (NO) Test Point 4:22 AM	10/23/2018	Walter Gonzales
8	Kitchen	Sink, Kitchen	K31-01 1040 (KS) Test Point 4:28 AM	10/23/2018	Walter Gonzales
9	Kitchen	Sink, Kitchen	K31-02 1040 (KS) Test Point 4:29 AM	10/23/2018	Walter Gonzales
10	Nurse's Office	Ice Machine	K17-01 1040 (IM) Test Point 4:23 AM	10/23/2018	Walter Gonzales
11	RM 101	Drinking Fountain, Refrigerated	W01A-02 1040 (DF) Test Point 4:33 AM	10/23/2018	Walter Gonzales
12	RM 113	Drinking Fountain, Refrigerated	W01A-04 1040 (DF) Test Point 4:36 AM	10/23/2018	Walter Gonzales
13	RM 118	Drinking Fountain, Refrigerated	W01A-05 1040 (DF) Test Point 4:38 AM	10/23/2018	Walter Gonzales
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-



Samples Relinquished By: WALTER GONZALEZ
 Samples Received By: Emily this mty 10/23/18 7:50
 Temp: 15.4

on ice

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division
Control # 606-03
Effective Date: 11/30/2016
Page 1 of 1

Number of Coolers Received: 1
Client: Emmitsburg Elementary
Form Completed By: Evelyn Shinas Mety
Shipper:
Custody Tape Intact:
Containers Intact:
Sample Received on Ice or refrigerated:

Chain of Custody Present with shipment:
Sample Bottle IDs agree with COC:
Preservation requirements met:
Correct Number of Containers / Sample Volume:
Headspace in container:
Type of Sample:

Receipt Date / Time: 10/23/18 7:50
Work Order # RJ210

Microbac Client UPS FedEx

YES / NO / NA

YES / NO

YES / NO / NA

Infrared (IR) Temperature: 15.4 °C

YES / NO

YES / NO

YES / NO / Not Checked

YES / NO (If No, contact client immediately)

YES / NO / NA

Water Soil Wipes Oil Filter Solid
Sludge Food Swab Other

Container Type/Quantity:

A - <u>10</u> Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid:	If preserved pH <2, pH >10
B - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
C - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
D - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
E - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
H - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
K - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
L - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
M - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
P - <u>13</u> Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
W - Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
V - Unpreserved	HCl	HCl / Ascorbic Acid	HCl / NaTHIO	(Checked at time of Analysis)		
F - Unpreserved	NaTHIO	(Checked at time of Analysis)				
S - Unpreserved	NaTHIO	(Checked at time of Analysis)				
SN - Unpreserved	NaTHIO	NaTHIO/EDTA	(Checked at time of Analysis)			
Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10
Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2, pH >10

Describe preservation requirements not met:

All Acid preserved <2 pH NaOH preserved >12 pH All others >2 and <10 (usually 4-8)

Sample ID: All bottles H₂SO₄ HNO₃ NaOH 1 mls added to each to preserve for

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added analysis requested.

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

H₂SO₄ - Sulfuric Acid, HNO₃ - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate 10/23/18
0944

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____

