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Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1355

Tidewater

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

Project Name: Myersville Elementary

Project / PO Number: N/A
Received: 10/26/2018
Reported: 11/21/2018

Analytical Testing Parameters

Client Sample ID: W01B-01 1047 (DF)
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-01
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:15

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1446	GHW

Client Sample ID: W01A-02 1047 (DF) D-B
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-02
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:17

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1449	GHW

Client Sample ID: W01A-01 1047 (DF)
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-03
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:18

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	6.3	20.0	1.0	ppb		10/29/18 0916	10/29/18 1450	GHW

Client Sample ID: W01A-03 1047 (DF) D-B
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-04
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:46

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1451	GHW

Client Sample ID: K17-01 1047 (IM) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-05
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:47

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	2.5	20.0	1.0	ppb		11/06/18 1646	11/07/18 1344	LMH

Client Sample ID: S23-15 1047 (NO)
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-06
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:48

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	12.7	20.0	1.0	ppb		10/29/18 0916	10/29/18 1454	GHW

Client Sample ID: K31-01 1047 (KS) Left
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-07
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:55

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	17.8	20.0	1.0	ppb		10/29/18 0916	10/29/18 1455	GHW

Client Sample ID: K31-01 1047 (KS) Right
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-08
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:57

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	13.3	20.0	1.0	ppb		10/29/18 0916	10/29/18 1456	GHW

Client Sample ID: K31-02 1047 (KS)
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-09
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:39

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	**34.3**	20.0	1.0	ppb		10/29/18 0916	10/29/18 1456	GHW

Client Sample ID: W01A-04 1047 (DF) D-B
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-10
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:42

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1457	GHW

Client Sample ID: R07-01 1047 (OT)
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-11
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:52

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1458	GHW

Client Sample ID: S23-16 1047 (TL)
Sample Matrix: Drinking Water
Lab Sample ID: 18J1355-12
Collected By: Walter Gonzalez
Collection Date: 10/26/2018 3:53

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		10/29/18 0916	10/29/18 1459	GHW

*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: 18.5°C

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CERTIFICATE OF ANALYSIS

18J1355

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	No	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 15:58

MICROBAC

Multiple Sample COC

Site: **Myersville Elementary: 429 Main Street, Myersville, MD 21773, Office Ph.: 240-236-1900** 18J1355

Date Sampled: **Friday, October 26, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28	Sampler's Name
1	Cafeteria	Drinking Fountain, Non-Refrigerated	W01B-01 1047 (DF)	10/26/2018 4:15	Walter Gonzales
2	Gym RM 140	Drinking Fountain, Refrigerated	W01A-02 1047 (DF) D-B	10/26/2018 4:19	Walter Gonzales
3	Hall - Main Office RM 150	Drinking Fountain, Refrigerated	W01A-01 1047 (DF)	10/26/2018 4:25	Walter Gonzales
4	Hall New Section @ RM 106	Drinking Fountain, Refrigerated	W01A-03 1047 (DF) D-B	10/26/2018 4:38	Walter Gonzales
5	Health Room	Ice Machine	K17-01 1047 (IM)Test Point	10/26/2018 4:24	Walter Gonzales
6	Health Room 151	Non-Kitchen lavatory/Sink	S23-15 1047 (NO)	10/26/2018 4:24	Walter Gonzales
7	Kitchen	Sink, Kitchen	K31-01 1047 (KS) Left	10/26/2018 4:13	Walter Gonzales
8	Kitchen	Sink, Kitchen	K31-01 1047 (KS) Right	10/26/2018 4:13	Walter Gonzales
9	Kitchen	Sink, Kitchen	K31-02 1047 (KS)	10/26/2018 4:12	Walter Gonzales
10	Media Center	Drinking Fountain, Refrigerated	W01A-04 1047 (DF) D-B	10/26/2018 4:36	Walter Gonzales
11	RM 155 Faculty Lounge	Refrigerator, Domestic (for Lead Testing Or	R07-01 1047 (OT)	10/26/2018 4:30	Walter Gonzales
12	RM 155 Faculty Lounge	Non-Kitchen lavatory/Sink	S23-16 1047 (TL)	10/26/2018 4:29	Walter Gonzales
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		

Samples Relinquished By: WALTER GONZALEZ

Samples Received By: [signature] 10/26/18 @ 6:30

Temp: 18.5°C ø rec'd on ice

18J1355

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: Tidewater
Form Completed By: HW Williams

Receipt Date / Time: 10/26/18 0630
Work Order # 18J1352/1353/1355

Shipper:	☐ Microbac ☒ Client ☐ UPS ☐ FedEx
Custody Tape Intact:	(YES) / NO / NA
Containers Intact:	(YES) / NO
Sample Received on Ice or refrigerated:	YES / (NO) / NA
	Infrared (IR) Temperature: 18.5 °C
Chain of Custody Present with shipment:	(YES) / NO
Sample Bottle IDs agree with COC:	(YES) / NO
Preservation requirements met:	YES / (NO) / Not Checked
Correct Number of Containers / Sample Volume:	(YES) / NO (If No, contact client immediately)
Headspace in container:	YES / NO / (NA)
Type of Sample:	(Water) Soil Wipes Oil Filter Solid Sludge Food Swab Other ____

***Container Type / Quantity*:**

A - ___	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 - 5 5	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 H_2SO_4 (HNO3) NaOH 1 mls added to preserve for analysis
Sample ID: ____ H_2SO_4 HNO_3 NaOH ____ mls added requested - HW 10/26/18 1208
Sample ID: ____ H_2SO_4 HNO_3 NaOH ____ mls added
Sample ID: ____ H_2SO_4 HNO_3 NaOH ____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: ____

Contact information / Summary of Actions:

Date / Time: ____ Contact: ____ Contact By: ____
Comments: ____