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Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K0236

Tidewater

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

Project Name: Whittier Elementary

Project / PO Number: N/A
Received: 11/01/2018
Reported: 11/21/2018

Analytical Testing Parameters

Client Sample ID: W01A-05 1021 (DF)
Sample Matrix: Drinking Water
Lab Sample ID: 18K0236-01
Collected By: Walter Gomzalez
Collection Date: 11/01/2018 4:04

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		11/08/18 1028	11/08/18 1642	LMH

Client Sample ID: W01A-07 1021 (DF)
Sample Matrix: Drinking Water
Lab Sample ID: 18K0236-02
Collected By: Walter Gomzalez
Collection Date: 11/01/2018 4:08

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		11/08/18 1028	11/08/18 1643	LMH

Client Sample ID: W01A-06 1021 (DF)
Sample Matrix: Drinking Water
Lab Sample ID: 18K0236-03
Collected By: Walter Gomzalez
Collection Date: 11/01/2018 4:22

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		11/08/18 1028	11/08/18 1646	LMH

Client Sample ID: W01A-03 1021 (DF)
Sample Matrix: Drinking Water
Lab Sample ID: 18K0236-04
Collected By: Walter Gomzalez
Collection Date: 11/01/2018 4:18

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		11/08/18 1028	11/08/18 1648	LMH

Client Sample ID:	W01A-04 1021 (DF)		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-05	**Collection Date:**	11/01/2018 4:18

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		11/08/18 1028	11/08/18 1649	LMH

Client Sample ID:	Kitchen 1021 (IM)		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-06	**Collection Date:**	11/01/2018 4:16

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		11/08/18 1028	11/08/18 1650	LMH

Client Sample ID:	Health 1021 (IM)		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-07	**Collection Date:**	11/01/2018 4:23

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.3	20.0	1.0	ppb		11/07/18 1452	11/08/18 1144	LMH

Client Sample ID:	W01A-08 1021 (SL)		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-08	**Collection Date:**	11/01/2018 4:28

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		11/08/18 1028	11/08/18 1651	LMH

Client Sample ID:	K31-01 1021 (KS)		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-09	**Collection Date:**	11/01/2018 4:32

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.8	20.0	1.0	ppb		11/08/18 1028	11/08/18 1652	LMH

Client Sample ID:	K31-02 1021 (KS) Left		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-10	**Collection Date:**	11/01/2018 4:34

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	7.1	20.0	1.0	ppb		11/08/18 1028	11/08/18 1653	LMH

Client Sample ID:	K31-02 1021 (KS) Right		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gomzalez
Lab Sample ID:	18K0236-11	**Collection Date:**	11/01/2018 4:34

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		11/08/18 1028	11/08/18 1654	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: ºC

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 16:14

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Multiple Sample COC

Site: **Whittier Elementary: 2400 Whittier Drive, Frederick, MD 21702, Office Ph.: 240-236-3100**

(Not collected) wrong location WFG

wrong location WFG

Date Sampled: **Thursday, November 1, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28	Sampler's Name
1	1st Floor Outside Office	Drinking Fountain, Refrigerated	W01A-01 1021 (DF)	11/1/2018	Walter Gonzlaes
2	1st Floor Outside Office	Drinking Fountain, Refrigerated	W01A-02 1021 (DF)	11/1/2018	Walter Gonzlaes
3	2nd Floor Near RM 211	Drinking Fountain, Refrigerated	W01A-05 1021 (DF)	11/1/2018 4:04	Walter Gonzlaes
4	BY ROOM 110	Drinking Fountain, Refrigerated	W01A-07 1021 (DF)	11/1/2018 4:08	Walter Gonzlaes
5	~~BY ROOM 110~~ HALL outside 056	Drinking Fountain, Refrigerated	W01A-06 1021 (DF)	11/1/2018 4:22	Walter Gonzlaes
6	In Cafe	Drinking Fountain, Refrigerated	W01A-03 1021 (DF)	11/1/2018 4:18	Walter Gonzlaes
7	In Cafe	Drinking Fountain, Refrigerated	W01A-04 1021 (DF)	11/1/2018 4:18	Walter Gonzlaes
8	- Kitchen	- Ice machine	- Kitchen 1021 ([redacted]) IM	11/1/2018 4:16	
9	- Health room	- Ice machine	- Health 1021 ([redacted]) IM	11/1/2018 4:23	
10	- Staff lounge 026	- Sink lavatory	- W01A-08 1021 (SL)	11/1/2018 4:28	
11	- Kitchen	- K31-01 1021 (KS)	- Kitchen sink	11/1/2018 4:32	
12	- Kitchen	- K31-02 1021 (KS) left	- Kitchen sink left	11/1/2018 4:34	
13	- Kitchen	- K31-02 1021 (KS) right	- Kitchen sink right	11/1/2018 4:34	
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		
	-	-	-		

Samples Relinquished By: WALTER GONZALEZ

Samples Received By: @ 06:00 11/1/2018

Temp:

11 Samples Low

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division
Control # 606-03
Effective Date: 11/30/2016
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Number of Coolers Received: 1
Client: Tidewater
Form Completed By: MEG

Receipt Date / Time: 11/1/18 6:00
Work Order # 18K0236

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: _____ °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 - 11 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: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
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: _____