



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1481

Tidewater

Project Name: Rock Creek

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

Project / PO Number: N/A
Received: 10/30/2018
Reported: 11/21/2018

Analytical Testing Parameters

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (S23-74 8024 TL, Drinking Water, 18J1481-01, Collected By: Walter Gonzalez, Collection Date: 10/30/2018 3:05)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Parameter (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1518), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-02 8024 DF, Drinking Water, 18J1481-02, Collected By: Walter Gonzalez, Collection Date: 10/30/2018 3:01)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Parameter (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1519), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-03 8024 DF, Drinking Water, 18J1481-03, Collected By: Walter Gonzalez, Collection Date: 10/30/2018 3:01)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Parameter (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1520), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (S23-34 8024 HE, Drinking Water, 18J1481-04, Collected By: Walter Gonzalez, Collection Date: 10/30/2018 3:12)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Parameter (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1521), Analyst (LMH)



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<b>Client Sample ID:</b> K31-01 8024 KS	<b>Collected By:</b> Walter Gonzalez
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/30/2018 3:10
<b>Lab Sample ID:</b> 18J1481-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	<1.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1522	LMH

<b>Client Sample ID:</b> S23-63 8024 NO	<b>Collected By:</b> Walter Gonzalez
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/30/2018 3:02
<b>Lab Sample ID:</b> 18J1481-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	<1.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1523	LMH

<b>Client Sample ID:</b> W01A-01 8024 DF	<b>Collected By:</b> Walter Gonzalez
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/30/2018 3:18
<b>Lab Sample ID:</b> 18J1481-07	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	<1.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1524	LMH

<b>Client Sample ID:</b> S23-36 8024 HE	<b>Collected By:</b> Walter Gonzalez
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/30/2018 3:15
<b>Lab Sample ID:</b> 18J1481-08	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	1.2	20.0	1.0	ppb		11/06/18 1303	11/06/18 1527	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: 18.2°C



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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  
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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 16:06



# 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: Evelyn Murray  
 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: 10/30/18 634  
 Work Order # 185148

Microbac  Client  UPS  FedEx  
 YES / NO / NA  
 YES / NO  
 YES / NO / NA  
 Infrared (IR) Temperature: 18.2 °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 -	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>8</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	<b>(Checked at time of Analysis)</b>	
F -	Unpreserved	NaTHIO <b>(Checked at time of Analysis)</b>				
S -	Unpreserved	NaTHIO <b>(Checked at time of Analysis)</b>				
SN -	Unpreserved	NaTHIO	NaTHIO/EDTA <b>(Checked at time of Analysis)</b>			
	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 preserve for analysis  
 Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added requested.  
 Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added 10/30/18  
 Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added 1019  
*H2SO4 - Sulfuric Acid, HNO3 - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate*

Describe Anomalies: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Contact information / Summary of Actions:**  
 Date / Time: \_\_\_\_\_ Contact: \_\_\_\_\_ Contact By: \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_