



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1406

Tidewater

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

Project Name: Earth and Space Sciences

Laboratory
Project / PO Number: N/A
Received: 11/30/2018
Reported: 12/26/2018

Analytical Testing Parameters

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-01 1006 (DF), Drinking Water, 18K1406-01, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (12/14/18 0931), Analyzed (12/20/18 1602), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-02 1006 (DF), Drinking Water, 18K1406-02, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (12/14/18 0931), Analyzed (12/20/18 1602), Analyst (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: 13.9°C

Cooler Inspection Checklist

Checklist table with 4 columns: Question, Yes/No, Question, Yes/No. Includes items like 'Ice Present or not required?', 'Shipping containers sealed or not required?', etc.



Microbac Laboratories, Inc. - Baltimore

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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:

A handwritten signature in black ink that reads "Caliesha A. Scott".

Caliesha A. Scott

Project Manager

Reported: 12/26/2018 11:01

Microbac Laboratories, Inc.

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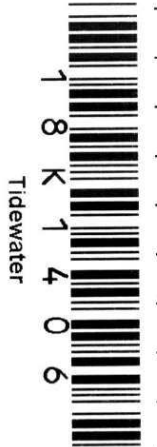
18K1406

Multiple Sample COC

Site: **Earth and Space Sciences Laboratory: 210 Madison Street, Office Ph.: Frederick, MD 21701**

Date Sampled: **Friday, November 30, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28)	Sampler's Name
1	Main Hall North	Drinking Fountain, Refrigerated	W01A-01 1006 (DF) <i>501am</i>	Friday, November 30, 2018	Kevin Rodgers
2	Main Hall North	Drinking Fountain, Refrigerated	W01A-02 1006 (DF) <i>502am</i>	Friday, November 30, 2018	Kevin Rodgers
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
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-	-	-	-	-	-
-	-	-	-	-	-



Samples Relinquished By: *Kevin Rodgers 11-30-18*

Samples Received By: *[Signature] 11-30-18*

Temp: *13.9*

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

Receipt Date / Time: 11-30-18 832

Client: Tidewater

Work Order # 18K1406

Form Completed By: Evelyn Metzger

Shipper:

Microbac Client UPS FedEx

Custody Tape Intact:

YES / NO / NA

Containers Intact:

YES / NO

Sample Received on Ice or refrigerated:

YES / NO / NA

Chain of Custody Present with shipment:

Infrared (IR) Temperature: 13.9°C

Sample Bottle IDs agree with COC:

YES / NO

Preservation requirements met:

YES / NO

Correct Number of Containers / Sample Volume:

YES / NO / Not Checked

Headspace in container:

YES / NO (If No, contact client immediately)

Type of Sample:

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 -	Unpreserved	H2SO4	<u>2</u> HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH < <u>2</u> , 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: _____ H₂SO₄ HNO₃ NaOH _____ mls added

Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added

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

Describe Anomalies: _____

Contact information / Summary of Actions:

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

Comments: _____
