



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1112

Tidewater

Project Name: Centerville Elementary

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

Project / PO Number: N/A
Received: 11/21/2018
Reported: 12/07/2018

Analytical Testing Parameters

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-01 1082 (DF), Drinking Water, 18K1112-01, etc.)

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

Method: EPA 200.2/EPA 200.8

Table row for Lead with values: <1.0, 20.0, 1.0, ppb, 12/06/18 1258, 12/06/18 1823, LMH

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-02 1082 (DF), Drinking Water, 18K1112-02, etc.)

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

Method: EPA 200.2/EPA 200.8

Table row for Lead with values: <1.0, 20.0, 1.0, ppb, 12/06/18 1258, 12/06/18 1829, LMH

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-12 1082 (DF), Drinking Water, 18K1112-03, etc.)

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

Method: EPA 200.2/EPA 200.8

Table row for Lead with values: <1.0, 20.0, 1.0, ppb, 12/06/18 1258, 12/06/18 1830, LMH

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-05 1082 (DF), Drinking Water, 18K1112-04, etc.)

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

Method: EPA 200.2/EPA 200.8

Table row for Lead with values: <1.0, 20.0, 1.0, ppb, 12/06/18 1258, 12/06/18 1834, LMH



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1112

Client Sample ID: W01A-06 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:14
Lab Sample ID: 18K1112-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		12/06/18 1258	12/06/18 1835	LMH

Client Sample ID: W01A-07 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:52
Lab Sample ID: 18K1112-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		12/06/18 1258	12/06/18 1836	LMH

Client Sample ID: W01A-08 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:53
Lab Sample ID: 18K1112-07	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		12/06/18 1258	12/06/18 1837	LMH

Client Sample ID: W01A-09 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:46
Lab Sample ID: 18K1112-08	

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		12/06/18 1258	12/06/18 1838	LMH



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1112

Client Sample ID: W01A-10 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:48
Lab Sample ID: 18K1112-09	

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		12/06/18 1258	12/06/18 1838	LMH

Client Sample ID: K17-02 1082 (IM)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:05
Lab Sample ID: 18K1112-10	

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		12/06/18 1258	12/06/18 1839	LMH

Client Sample ID: K17-01 2076 (IM)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:37
Lab Sample ID: 18K1112-12	

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		12/06/18 1258	12/06/18 1840	LMH

Client Sample ID: W01A-13 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 5:07
Lab Sample ID: 18K1112-14	

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		12/06/18 1258	12/06/18 1841	LMH



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1112

Client Sample ID: W01A-14 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 5:08
Lab Sample ID: 18K1112-15	

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		12/06/18 1258	12/06/18 1845	LMH

Client Sample ID: W01A-03 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:10
Lab Sample ID: 18K1112-16	

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		12/06/18 1258	12/06/18 1848	LMH

Client Sample ID: W01A-04 1082 (DF)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:10
Lab Sample ID: 18K1112-17	

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		12/06/18 1258	12/06/18 1849	LMH

Client Sample ID: K31-07 1082 (KS) Left	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:26
Lab Sample ID: 18K1112-18	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.3	20.0	1.0	ppb		12/06/18 1258	12/06/18 1850	LMH



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1112

Client Sample ID: K31-07 1082 (KS) Right	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:26
Lab Sample ID: 18K1112-19	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.4	20.0	1.0	ppb		12/06/18 1258	12/06/18 1851	LMH

Client Sample ID: K31-03 1082 (KS)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 4:30
Lab Sample ID: 18K1112-20	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.7	20.0	1.0	ppb		12/06/18 1258	12/06/18 1852	LMH

Client Sample ID: TL-01 1082 (IM)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 5:19
Lab Sample ID: 18K1112-21	

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		12/06/18 1258	12/06/18 1854	LMH

Client Sample ID: K-01-1082 (TL)	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 11/21/2018 5:20
Lab Sample ID: 18K1112-22	

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		12/06/18 1258	12/06/18 1855	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: 10.2°C



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1112

Cooler Inspection Checklist

Custody Seals	Yes	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	Yes
Received On Ice	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	No	Sample type identified on COC?	Yes
Correct containers listed on COC?	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	No	COC includes requested analyses?	No
Enough sample volume for indicated tests received?	No	Sample labels match COC (Name, Date & Time?)	No
Samples arrived within hold time?	No	Correct preservatives on COC or not required?	No
Chemical preservations checked or not required?	No	Preservation checks meet method requirements?	No
Check VOA, Micro, O&G, Carbamate, TOC before test.	No	Received aqueous VOA vials have <6mm headspace?	No
Trip Blank(s) Present or not required?	No		

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:

Jeanne Overstreet
Project Manager

Reported: 12/07/2018 19:06



16K1112

Reviewed By: _____

Date: _____

Multiple Sample COC

Site: **Centerville Elementary: 3601 Carriage Hill Drive, Office Ph.: Frederick, MD 21704**

Date Sampled: **Wednesday, November 21, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28)	Sampler's Name
✓1	100 Hall	Drinking Fountain, Refrigerated	W01A-01 1082 (DF)	Wednesday, November 21, 2018 4:41	Dhanushka Gamage
✓2	100 Hall	Drinking Fountain, Refrigerated	W01A-02 1082 (DF)	Wednesday, November 21, 2018 4:41	Dhanushka Gamage
✓3	300 Hall	Drinking Fountain, Refrigerated	Portable 159-09E13X150T W01A-02 (DF) W01A-12-1082 (DF)	Wednesday, November 21, 2018 5:06	Dhanushka Gamage
✓4	300 Hall	Drinking Fountain, Refrigerated	W01A-05 1082 (DF)	Wednesday, November 21, 2018 4:14	Dhanushka Gamage
✓5	300 Hall	Drinking Fountain, Refrigerated	W01A-06 1082 (DF)	Wednesday, November 21, 2018 4:14	Dhanushka Gamage
✓6	400 Hall	Drinking Fountain, Refrigerated	W01A-07 1082 (DF)	Wednesday, November 21, 2018 4:52	Dhanushka Gamage
✓7	400 Hall	Drinking Fountain, Refrigerated	W01A-08 1082 (DF)	Wednesday, November 21, 2018 4:53	Dhanushka Gamage
✓8	400 Hall	Drinking Fountain, Refrigerated	W01A-09 1082 (DF)	Wednesday, November 21, 2018 4:46	Dhanushka Gamage
✓9	Gym Office	Drinking Fountain, Refrigerated	W01A-10 1082 (DF)	Wednesday, November 21, 2018 4:48	Dhanushka Gamage
✓10	Health Room	Ice Machine	K17-02 1082 (IM)	Wednesday, November 21, 2018 4:05	Dhanushka Gamage
11	Kitchen	Ice Machine	K17-01 1082 (IM)	Wednesday, November 21, 2018	Dhanushka Gamage
✓12	Kitchen	Sink, Kitchen	K31-07-1083 (IM)	Wednesday, November 21, 2018 4:37	Dhanushka Gamage
13	Kitchen By Walk-in Boxes	Sink, Kitchen	K31-03 1083 (IM)	Wednesday, November 21, 2018	Dhanushka Gamage
✓14	Near Bathrooms	Drinking Fountain, Refrigerated	W01A-13-1082 (DF) Portable 159-09E13X150T-W01A-03 (DF)	Wednesday, November 21, 2018 5:07	Dhanushka Gamage
✓15	Near the Bathroom	Drinking Fountain, Refrigerated	W01A-14-1082 (DF) Portable 159-09E13X150T-W01A-04 (DF)	Wednesday, November 21, 2018 5:08	Dhanushka Gamage
✓16	RM 226	Drinking Fountain, Refrigerated	W01A-03 1082 (DF)	Wednesday, November 21, 2018 4:16	Dhanushka Gamage
✓17	RM 226	Drinking Fountain, Refrigerated	W01A-04 1082 (DF)	Wednesday, November 21, 2018 4:10	Dhanushka Gamage
✓18	PISH ROOM	SINK KITCHEN	-K-31-07-1082 (KS) LEFT	" " " " 4:26	" "
✓19	PISH ROOM	" "	-K-31-07-1082 (KS) RIGHT	" " " " 4:26	" "
✓20	Rm 171	SINK KITCHEN	-K-31-03-1082 (KS)	" " " " 4:30	" "

Samples Relinquished By: *[Signature]*

Samples Received By: _____

Temp: 10.2

Early Meeting
11-21-18 12:45

Multiple Sample COC

Site: **Centerville Elementary: 3601 Carriage Hill Drive, Office Ph.: Frederick, MD 21704**

Date Sampled: **Wednesday, November 21, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28)	Sampler's Name
✓ 21	FM 131	✓ ICE MAKER (REFRIG) [RETROFIT]	TL-01-1082-(1M)	WEDNESDAY NOV 21 8-19	D. COLUMA
✓ 22	CM 132	✓ SINK KITCHEN	K-01-1082-(TL)	WEDNESDAY NOV 21 5-20	" "
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Samples Relinquished By:  _____
 Samples Received By: _____
 Temp: _____

11-21-18 1245