



Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T3D1087

Project Description

School Lead Testing

For:

Lisa Knewasser

Broome-Tioga BOCES

435 Glenwood RD

Binghamton, NY 13905

Project Manager

Joseph Palanza

Monday, August 14, 2023

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Pittston Division. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc.

428 Route 315 | Pittston, PA 18640 | 570-348-0775 p | www.microbac.com



Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T3D1087

**Revised Report:
Amended - See Case
Narrative.**

Broome-Tioga BOCES

Lisa Knewasser
435 Glenwood RD
Binghamton, NY 13905

Project Name: School Lead Testing

Project / PO Number: BTB-WLC
Received: 04/07/2023
Reported: 08/14/2023

Case Narrative

Revision 1 - 08/14/2023: Revised to show correct MDL

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
BTB-WLC-35-Sink	T3D1087-01	Drinking Water	Grab		04/04/23 06:45	04/07/23 16:36
BTB-WLC-1S-Sink	T3D1087-02	Drinking Water	Grab		04/04/23 06:46	04/07/23 16:36
BTB-WLC-3S-Sprayer	T3D1087-03	Drinking Water	Grab		04/04/23 06:48	04/07/23 16:36
BTB-WLC-Kitch-Ice	T3D1087-04	Drinking Water	Grab		04/04/23 06:50	04/07/23 16:36
BTB-WLC-100-F	T3D1087-05	Drinking Water	Grab		04/04/23 06:52	04/07/23 16:36
BTB-WLC-100-BF	T3D1087-06	Drinking Water	Grab		04/04/23 06:54	04/07/23 16:36
BTB-WLC-236-WD	T3D1087-07	Drinking Water	Grab		04/04/23 07:00	04/07/23 16:36
BTB-WLC-232--WD	T3D1087-08	Drinking Water	Grab		04/04/23 07:04	04/07/23 16:36
BTB-WLC-102-WD	T3D1087-09	Drinking Water	Grab		04/04/23 07:06	04/07/23 16:36
BTB-WLC-112-WD	T3D1087-10	Drinking Water	Grab		04/04/23 07:07	04/07/23 16:36
BTB-WLC-110-WD	T3D1087-11	Drinking Water	Grab		04/04/23 07:09	04/07/23 16:36
BTB-WLC-128-S	T3D1087-12	Drinking Water	Grab		04/04/23 07:10	04/07/23 16:36



Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T3D1087

Analytical Testing Parameters

Client Sample ID: BTB-WLC-35-Sink

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-01

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 6:45

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1313	MMC

Client Sample ID: BTB-WLC-1S-Sink

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-02

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 6:46

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0013	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1317	MMC

Client Sample ID: BTB-WLC-3S-Sprayer

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-03

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 6:48

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1319	MMC

Client Sample ID: BTB-WLC-Kitch-Ice

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-04

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 6:50

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1320	MMC



Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T3D1087

Client Sample ID: BTB-WLC-100-F

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-05

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 6:52

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1322	MMC

Client Sample ID: BTB-WLC-100-BF

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-06

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 6:54

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1324	MMC

Client Sample ID: BTB-WLC-236-WD

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-07

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 7:00

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1328	MMC

Client Sample ID: BTB-WLC-232--WD

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-08

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 7:04

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1330	MMC



Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T3D1087

Client Sample ID: BTB-WLC-102-WD

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-09

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 7:06

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1332	MMC

Client Sample ID: BTB-WLC-112-WD

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-10

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 7:07

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1333	MMC

Client Sample ID: BTB-WLC-110-WD

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-11

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 7:09

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	<0.0010	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1335	MMC

Client Sample ID: BTB-WLC-128-S

Sample Matrix: Drinking Water

Lab Sample ID: T3D1087-12

Collected By: Lisa Knewasser

Collection Date: 04/04/2023 7:10

Analyses Performed by: Microbac Laboratories, Inc. - Dayville

Metals Total by ICPMS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.8, Rv. 5.4 (1994)								
Lead	0.0013	0.005 AL	0.0010	mg/L		04/14/23 1152	04/14/23 1338	MMC

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

AL: US EPA Action Level
mg/L: Milligrams per Liter
RL: Reporting Limit



Microbac Laboratories, Inc., Pittston Division

CERTIFICATE OF ANALYSIS

T3D1087

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 16.1°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	Yes	COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes	Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes	Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes	Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes		

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville
11549

New York State Department of Health

Microbac Laboratories, Inc., Pittston Division
35-05082

Pennsylvania Department of Environmental Protection

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. **The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:

Joseph Palanza
Project Manager

Reported: 08/14/2023 10:08

MICROBAC 3821 Buck Dr., Cortland, NY 12045 | 607.753.3403 p | 607.753.3415 f

CHAIN OF CUSTODY RECORD

Number

Instructions on back

Lab Report Address **435 Glenwood Rd**

Client Name: **BT BOCES**

Address: **435 Glenwood Rd**

City, State, Zip: **Binghamton, NY 13905**

Contact: **Lisa Knewasser**

Telephone No.: **607-752-0261 (cell)**

Send Report via: ☒ Mail ☐ Fax ☒ e-mail (address) **knewass@btbooces.org**

Project:

Location:

PO No.:

Sampler Signature:

Sampler Phone No.:

Invoice Address **same**

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.: **607-763-3354**

Send Report via: ☒ Mail ☐ Fax ☒ e-mail (address) **knewass@btbooces.org**

Project:

Location:

PO No.:

Sampler Signature:

Sampler Phone No.:

Invoice Address **same**

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.: **607-763-3354**

Send Report via: ☒ Mail ☐ Fax ☒ e-mail (address) **knewass@btbooces.org**

Project:

Location:

PO No.:

Sampler Signature:

Sampler Phone No.:

Invoice Address **same**

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.: **607-763-3354**

Send Report via: ☒ Mail ☐ Fax ☒ e-mail (address) **knewass@btbooces.org**

Project:

Location:

PO No.:

Sampler Signature:

Sampler Phone No.:

Turnaround Time

☐ Routine (5 to 7 business days)

☐ RUSH* (notify lab)

(needed by)

Report Type

☒ Results Only ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

☐ Mail ☐ Fax ☒ e-mail (address)

Compliance Monitoring? ☐ Yes ☐ No

☐ Agency/Program

Additional Notes

head in drinking water

Requested Analysis

Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Hexane, (9) Unpreserved

Requested Analysis

Lab ID

Client Sample ID

Date Collected

Time Collected

No. of Containers

Matrix

Grab / Comp

Preservative Types **

1. BTB-WLC-35-Sink 4/16/23 6:45 AM X HNO3

2. BTB-WLC-15-Sink 6:46 AM

3. BTB-WLC-35-Sprayer 6:48 AM

4. BTB-WLC-Kitch-Ice 6:50 AM

5. BTB-WLC-100 Wng-F 6:52 AM

6. BTB-WLC-100 Wng-F 6:54 AM

7. BTB-WLC-236-WD 7:00 AM

8. BTB-WLC-232-WD 7:04 AM

9. BTB-WLC-102-WD 7:06 AM

Possible Hazard Identification

Comments

☒ Hazardous ☐ Non-Hazardous ☐ Radioactive

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T 3 D 1 0 8 7

Broome-Tioga BOCES

PM: Kylie Ryan

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CHAIN OF CUSTODY RECORD

Number

Instructions on back

TO BE COMPLETED BY MICROBAC

Turnaround Time

☐ Routine (5 to 7 business days)
☐ RUSH* (notify lab)

Invoice Address

Client Name:

Address:

City, State, Zip:

Contact:

Telephone No.:

Send Report via:

☐ Mail ☐ Fax ☒ e-mail (address)

Location:

PO No.:

Sampler Signature:

Sampler Phone No.:

* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **
10.	BTB-WLC-112-WD	4/4/23	7:07am			X	HNO3
11.	BTB-WLC-110-WD		7:09am				
12.	BTB-WLC-12P-S		7:10am				

Additional Notes

Lead in drinking water



Broome-Tioga BOCES
PM: Kylie Ryan

Possible Hazard Identification
Comments

☐ Hazardous ☐ Non-Hazardous ☐ Radioactive

Sample Disposition

☐ Dispose as appropriate ☐ Return ☐ Archive

Relinquished By (signature)

Relinquished By (signature)

Relinquished By (signature)

Relinquished By (signature)

Date/Time

Date/Time

Date/Time

Date/Time

Received By (signature)

Received By (signature)

Received By (signature)

Received By (signature)

Date/Time

Date/Time

Date/Time

Date/Time

Melina Blythe 4/17/23 16:30