



**Westchester  
Environmental, LLC**

# **LEAD IN DRINKING WATER SECOND ROUND REPORT**

## **BUTLER PUBLIC SCHOOL DISTRICT**

*PERFORMED FOR:*

**BUTLER PUBLIC SCHOOL DISTRICT**  
38 BARTHOLDI AVE. HS ANNEX  
BUTLER, NJ 07405

*PERFORMED BY:*

**WESTCHESTER ENVIRONMENTAL LLC**  
307 N WALNUT STREET  
WEST CHESTER, PA

APRIL 2017



April 19, 2017

Mrs. Barbara Murphy  
School Business Administrator  
Butler Public School District  
38 Bartholdi Ave, HS Annex  
Butler, NJ 07405

**Re: LEAD IN DRINKING WATER SECOND ROUND REPORT**

Dear Mrs. Murphy,

Please find enclosed the report for the Lead in Drinking Second Round Water Sampling conducted for the Butler Public School District facilities on March 28, 2017.

If you have any questions, please contact me at 610-431-7545 or email me at [nabraham@WestChesterEnvironmental.com](mailto:nabraham@WestChesterEnvironmental.com).

Sincerely,

Westchester Environmental, LLC

A handwritten signature in black ink, appearing to read 'Noel Abraham', is written over a horizontal line.

Noel Abraham  
Environmental Specialist



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## 1.0 INTRODUCTION

Westchester Environmental, LLC was contracted by Butler Public School District to conduct a second round of Follow-up Drinking Water Sampling at the following Butler Public Schools:

1. Richard Butler School
2. Butler High School

The purpose of the follow up sampling was to collect water samples at those fixtures in the facility where the initial first draw samples were reported to contain lead above the NJDEP action level of 15.5 parts per billion (ppb) and have them analyzed for lead levels.

The water sampling was performed on March 28, 2017 by Noel Abraham of Westchester Environmental, LLC.

All samples were analyzed by Suburban Testing Labs located at 1037F MacArthur Rd, Reading, PA 19605, a New Jersey certified Lead in Drinking Water testing facility.

*-END OF SECTION-*

## 2.0 SUMMARY OF FINDINGS

The flush water samples were collected from the school buildings and submitted for lead analysis. The tables below show the concentration of lead (reported in parts per billion (ppb)) at each sampled location in each facility, and locations that were reported to have lead concentrations greater than the recommended New Jersey Department of Environmental Protection (NJDEP) Action Level of 15.5 ppb have been highlighted. The lead results of the field blanks collected at these schools were both non-detect < 1.0 ppb.

Table 1: Richard Butler School

	Sample Number	Location	First Draw	Flush	Action Level	Flush Over Limit
			ppb	ppb	ppb	Yes/No
1	BRB-1FL-DW-Room 151	Room 151	50.7	3.57	15.5	No
2	BRB-1FL-DW-Room 152	Room 152	34.9	275	15.5	Yes
3	BRB-1FL-DW-Room 158	Room 158	20.5	13.2	15.5	No
4	BRB-1FL-DW-Hall o/s Guidance-Left	Hall o/s Guidance	24	27.5	15.5	Yes
5	BRB-1FL-DW-Hall o/s 119-Left	Hall o/s 119 Left	264	10.7	15.5	No
6	BRB-1FL-DW-Hall o/s 119-Right	Hall o/s 119 Right	202	13.6	15.5	No
7	BRB-1FL-DW-Room 307	Room 307	21.8	3.29	15.5	No

Table 2: Butler High School

	Sample Number	Location	First Draw	Flush	Action Level	Flush Over Limit
			ppb	ppb	ppb	Yes/No
1	BHS-LL-DW-Hall O/S 142	Hall o/s 142	16.2	3.33	15.5	No
2	BHS-ML-WC-Hall O/S 214	Hall o/s 214	17.2	5.57	15.5	No

*-END OF SECTION-*



### **3.0 SAMPLING AND ANALYSES**

Flush samples (water that is collected after the first draw sample) were collected from the two facilities at locations where the initial first draw samples were reported to contain lead above the lead action level of 15.5 parts per billion (ppb), along with one (1) Field Blank from each school for Quality Control purposes.

A total of (9) flush samples and (2) associated field blanks were collected, seven samples from Richard Butler and two samples from Butler High School.

All samples were labeled with a unique identification number and transported to the Suburban Laboratory for analysis of lead in drinking water using EPA Method 200.8.

*-END OF SECTION-*

## 4.0 DISCUSSION & RECOMMENDATIONS

According to the US EPA, lead enters drinking water primarily through plumbing materials.

For further information on guidance protocols and Action Levels that were followed please refer to:

1. N.J.A.C. 6A:26
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"

### **Immediate / Short Term Action Required:**

1. Continue to keep those locations where any lead levels (either first draw or flush) exceeded the NJDEP 15.5 ppb Action Level off line until corrective actions can be completed. Locations where first draw samples were above the action level and flush samples are below the lead limit are an indication that the fixtures themselves are contributing to the lead concentrations reported. Locations where flushed samples were above the action level are an indication that conditions further back (upstream) in the plumbing system are also contributing to the lead contamination.
2. Refer to EPA's "**3Ts for Reduced Lead in Drinking Water in Schools**" for other short term and long term suggested remediation measures. These measures may include but are not limited to: cleaning of aerators or screens, decommission of an outlet (taking off line), replacing a fixture or parts of a fixture, installing a lead filter, replacing specific plumbing components. If a location is remediated with intent to be put back in service it must first be re-tested for lead to assure that the remediation performed successfully produces a result under the lead action limit. Further Operations and Maintenance Plans if not already in place should be developed to periodically evaluate those sample points remediated if necessary.
3. Proper notification of these results is required per the NJ regulations.

*-END OF SECTION-*



## 5.0 DISCLAIMER

The Lead Hazard Assessment has limitations with regards to identification of actual health and environmental issues. It is limited to only those items listed in the report and all items reflect conditions at the time of the assessment only.

Westchester Environmental LLC warrants only that the contents of this report constitute an informed discussion of the assessment at the subject property and is prepared exclusively for, and is confidential to, the above noted client. Westchester Environmental LLC assumes no liability with regards to the use of this information or decisions, which are made regarding the subject property. The user(s) of this information must use their own best judgment to determine the appropriate course of action.

Westchester Environmental LLC

A handwritten signature in black ink, appearing to read 'Noel Abraham'.

Noel Abraham  
Environmental Specialist

*-END OF REPORT-*



## **APPENDIX I**

**LEAD IN DRINKING WATER SAMPLING  
CHAINS-OF-CUSTODY & LAB REPORTS**



## Results Report

Order ID: 7034593

Westchester Environmental  
307 North Walnut Street  
West Chester, PA 19380

Project: Butler, NJ SD - Richard Butler  
30 Pearl Place  
Butler, NJ 07405

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7034593-01  
Collector: NPA

Site: Field Blank  
Collect Date: 03/28/2017 9:04 am

Sample ID: BRB-Blank  
Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead < 1.00 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 22:47 RPV

Sample Number: 7034593-02  
Collector: NPA

Site: Room 151  
Collect Date: 03/28/2017 2:05 pm

Sample ID: BRB-1FL-DW-Room 151-F  
Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 3.57 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 22:53 RPV

Sample Number: 7034593-03  
Collector: NPA

Site: Room 152  
Collect Date: 03/28/2017 2:10 pm

Sample ID: BRB-1FL-DW-Room 152-F  
Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 275 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 22:57 RPV

Sample Number: 7034593-04  
Collector: NPA

Site: Room 158  
Collect Date: 03/28/2017 9:15 am

Sample ID: BRB-1FL-DW-Room 158-F  
Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 13.2 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 22:59 RPV

Sample Number: 7034593-05  
Collector: NPA

Site: O/S Guidance Left  
Collect Date: 03/28/2017 9:18 am

Sample ID: BRB-1FL-DW-Hall o/s Guidance-L-F  
Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 27.5 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 23:01 RPV

Report Generated On: 04/11/2017 6:29 pm  
STL\_Results Revision #1.6

7034593  
Effective: 07/09/2014





# SUBURBAN TESTING LABS

Sample Number: 7034593-06      Site: O/S 119 L      Sample ID: BRB-1FL-DW-Hall o/s 119 L-F  
 Collector: NPA      Collect Date: 03/28/2017 9:22 am      Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead      10.7      µg/L      EPA 200.8      1.00      1      03/30/17      MMR      04/08/17 23:03      RPV

Sample Number: 7034593-07      Site: O/S 119 R      Sample ID: BRB-1FL-DW-Hall o/s 119 R-F  
 Collector: NPA      Collect Date: 03/28/2017 9:26 am      Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead      13.6      µg/L      EPA 200.8      1.00      1      03/30/17      MMR      04/08/17 23:05      RPV

Sample Number: 7034593-08      Site: Room 307      Sample ID: BRB-1FL-DW-Room 307-F  
 Collector: NPA      Collect Date: 03/28/2017 9:31 am      Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead      3.29      µg/L      EPA 200.8      1.00      1      03/30/17      MMR      04/08/17 23:07      RPV

Sample Number: 7034593-09      Site: Laboratory Control Sample      Sample ID:  
 Collector:      Collect Date: 03/30/2017 12:00 am      Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead      15.1      µg/L      EPA 200.8      1.00      1      03/30/17      MMR      04/08/17 23:16      RPV

Sample Number: 7034593-10      Site: Laboratory Control Sample Duplicate      Sample ID:  
 Collector:      Collect Date: 03/30/2017 12:00 am      Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead      15.1      µg/L      EPA 200.8      1.00      1      03/30/17      MMR      04/08/17 23:18      RPV

**Sample Receipt Conditions:**

All samples met the sample receipt requirements for the relevant analyses.

Report Generated On: 04/11/2017 6:29 pm      7034593  
 STL\_Results      Revision #1.6      Effective: 07/09/2014





# SUBURBAN TESTING LABS

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

**Reviewed and Released By:**

Alana Kopicz  
Project Manager

Report Generated On: 04/11/2017 6:29 pm 7034593  
STL\_Results Revision #1.6 Effective: 07/09/2014





7034593  
Alana Kopicz

		<b>Chain of Custody Record</b>		TAT (Check One)    Stand	
Client Name: <b>Westchester Environmental LLC.</b>		Project Name: <b>Butler SD</b>		Address: <b>Richard Butler School</b>	
Address: <b>307 N. Walnut Street</b>		Phone: <b>610-883-3839</b>		Address: <b>10 Pearl Pl, Butler, NJ 07405</b>	
Contact Name: <b>Noel Abraham</b>		Email: <b>nabraham@westchesterenviro</b> <b>ironmental.com</b>		Payment / P.O. Info:	

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type *	Preservative	Location Code
	Field Blank	03/28/17	09:04 AM	NPA	001	Pb EPA 200.8	1	PW	G	P	H	BRB-Blank
Flush	Room 151	03/28/17	02:05 PM	NPA	002	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Room 151-F
Flush	Room 152	03/28/17	02:10 PM	NPA	003	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Room 152-F
Flush	Room 158	03/28/17	09:15 AM	NPA	004	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Room 158-F
Flush	O/S Guidance Left	03/28/17	09:18 AM	NPA	005	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Hall o/s Guidance-L-F
Flush	O/S 119 L	03/28/17	09:22 AM	NPA	006	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Hall o/s 119-L-F
Flush	O/S 119 R	03/28/17	09:26 AM	NPA	007	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Hall o/s 119-R-F
Flush	Room 307	03/28/17	09:31 AM	NPA	008	Pb EPA 200.8	1	PW	G	P	H	BRB-1FL-DW-Room 307-F

PH 2

Relinquished by: *[Signature]*  
 Received By: *[Signature]*  
 Relinquished by: *[Signature]*  
 Received in Lab By: *[Signature]*

Date: 2/30/17  
 Time: 09:00  
 Temp °C: 14.9  
 Acceptable Y/N

Date: 3/30/17  
 Time: 1440  
 Temp °C: 4-8  
 Acceptable Y/N

Date: 3/30/17  
 Time: 1440  
 Temp °C: 4.8  
 Acceptable Y/N

Sample Conditions	Matrix Key	Bottle Type Key	Reporting options
Submitted w/ COC <input checked="" type="checkbox"/> Y/N	NPW = Non-Potable Water	P = Plastic	<input type="checkbox"/> SWDA Reportin
Number of containers match <input checked="" type="checkbox"/> Y/N	Solid = Raw Sludge, Dewatered Sludge, soil, etc. (reported as mg/l) PW = Potable Water (not for SWDA compliance)	G = Glass O = Other	<input type="checkbox"/> Fax
All containers intact <input checked="" type="checkbox"/> Y/N	SWDA = Safe Drinking Water Act Potable Sample	<b>Preservative Key</b>	
Tests within holding times <input checked="" type="checkbox"/> Y/N	<b>Sample Type Key</b> G = Grab 8 HC = 8 Hour Composite 24 HC = 24 Hour Composite	H = Sodium Thiosulphate A = Ascorbic Acid C = HCl H <sub>2</sub> SO <sub>4</sub> NaOH NA = None Required	<input type="checkbox"/> Email
40 ml. VOA vials free of headspace? <input checked="" type="checkbox"/> Y/N	<b>SWDA Sample Type</b> D = Distribution E = Entry Point R = Raw C = Check S = Special M = Maximum Residence		<input type="checkbox"/> Other <input type="checkbox"/> Return a copy of

PH ✓

3/30/17



## Results Report

Order ID: 7034594

Westchester Environmental  
307 North Walnut Street  
West Chester, PA 19380

Project: Butler, NJ SD - High School  
38 Bartholdi Avenue  
Butler, NJ 07405

Attn: Westchester Environmental

Regulatory ID:

Sample Number: 7034594-01  
Collector: NPA

Site: Field Blank  
Collect Date: 03/28/2017 8:39 am

Sample ID: BHS-Blank  
Sample Type: S

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead < 1.00 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 23:20 RPV

Sample Number: 7034594-02  
Collector: NPA

Site: O/S 142  
Collect Date: 03/28/2017 8:40 am

Sample ID: BHS-LL-DW-Hall o/s 142-F  
Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 3.33 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 23:22 RPV

Sample Number: 7034594-03  
Collector: NPA

Site: O/S 214  
Collect Date: 03/28/2017 8:45 am

Sample ID: BHS-ML-WC-Hall o/s 214-F  
Sample Type: F

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 5.57 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 23:28 RPV

Sample Number: 7034594-04  
Collector:

Site: Laboratory Control Sample  
Collect Date: 03/30/2017 12:00 am

Sample ID:  
Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 15.1 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 23:30 RPV

Sample Number: 7034594-05  
Collector:

Site: Laboratory Control Sample Duplicate  
Collect Date: 03/30/2017 12:00 am

Sample ID:  
Sample Type:

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 15.1 µg/L EPA 200.8 1.00 1 03/30/17 MMR 04/08/17 23:32 RPV

Report Generated On: 04/11/2017 6:28 pm  
STL\_Results Revision #1.6

7034594  
Effective: 07/09/2014





**Sample Receipt Conditions:**

All samples met the sample receipt requirements for the relevant analyses.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

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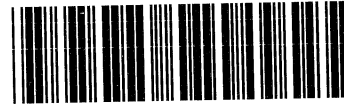
Results are considered Preliminary unless report is signed by authorized representative of STL.

**Reviewed and Released By:**

Alana Kopicz  
Project Manager

Report Generated On: 04/11/2017 6:28 pm 7034594  
STL\_Results Revision #1.6 Effective: 07/09/2014





7034594  
Alana Kopicz

111



**Chain of Custody Record**

TAT (Check Or

1037F MacArthur Road, Reading, PA 19605  
610-375-TEST - Fax: 610-375-4090 - suburbantestinglabs.com

Client Name:	Westchester Environmental LLC.			Project Name:	Butler SD
Address:	307 N. Walnut Street	Phone:	610-883-3839	Address:	Butler High School
	West Chester, PA 19380	Email:	nabraham@westchesterenv ironmental.com		38 Bartholdi Ave, Butler NJ
Contact Name:	Noel Abraham			Payment / P.O. Info:	

Comments:

Flush / First Draw	Sample Description / Site ID.	Date Sampled	Time Sampled	Samplers Initials	Westchester Field Sample #	Tests Requested	Bottle Quantity	Matrix	Sample Types	Bottle Type	Preservative	Location Code
	Field Blank	03/28/17	08:39 AM	NPA	001	Pb EPA 200.8	1	PW	G	P	H	BHS-Blank
Flush	O/S 142	03/28/17	08:40 AM	NPA	002	Pb EPA 200.8	1	PW	G	P	H	BHS-LL-DW-Hall o/s 142-F
Flush	O/S 214	03/28/17	08:45 AM	NPA	003	Pb EPA 200.8	1	PW	G	P	H	BHS-ML-WC-Hall o/s 214-F

PH 2

Relinquished by:

*[Signature]*

Received By:

(3) *[Signature]*

Relinquished by:

(3) *[Signature]*

Received in Lab By:

*[Signature]*

Date: 3/30/17  
Time: 09:00

Date: 3/30/17 Temp °C: 14.7  
Time: 1:30 Acceptable (Y) N

Date: 3/30/17 Temp °C: 9.8  
Time: 1440 Acceptable (Y) N

Date: 3/30/17 Temp °C: 4.8  
Time: 1440 Acceptable (Y) N

Sample Conditions	Matrix Key	Bottle Type Key	Reporting options
Submitted w/ COC (Y) N	NPW = Non-Potable Water	P = Plastic	<input type="checkbox"/> SWDA Reportin
Number of containers match (Y) N	Solid = Raw Sludge, Dewatered Sludge sol., etc. (reported as mg/l) PW = Potable Water (not for SWDA compliance)	G = Glass	<input type="checkbox"/> Fax
All containers intact (Y) N	SWDA = Safe Drinking Water Act Potable Sample	O = Other	<input type="checkbox"/> Email
Tests within holding times (Y) N	<b>Sample Type Key</b> G = Grab 8 HC = 8 Hour Composite 24 HC = 24 Hour Composite	<b>Preservative Key</b> H = Sodium Thiosulphate Acid C = HCl H <sub>2</sub> SO <sub>4</sub> NaOH	<input type="checkbox"/> Other <input type="checkbox"/> Return a copy of
40 ml. VOA vials free of headspace? (Y) N	<b>SWDA Sample Type</b> D = Distribution E = Entry Point R = Raw C = Check S = Special M = Maximum Residence	A = Ascorbic H = HNO <sub>3</sub> S = OH = O = Other NA = None Required	

PH ✓ GKM  
3/30/17