

Fairfield Public Schools

# Water Analysis Report

Mill Hill Elementary School  
635 Mill Hill Terrace  
Fairfield, CT



Big East Environmental, LLC  
February 22, 2018

<b>SUBJECT SITE:</b>	Mill Hill Elementary School 635 Mill Hill Terrace Fairfield, CT
<b>CLIENT:</b>	Fairfield Public Schools 501 Kings Hwy East Fairfield, CT 06825 203.255.8277 mpiatt@fairfieldschools.org
<b>INSPECTION DATE:</b>	February 16, 2018
<b>BIG EAST PROJECT #:</b>	18076

## WATER QUALITY ANALYSIS REPORT

### Lead in Water

#### Introduction

Big East Environmental, LLC was retained by the client to perform follow up lead in water testing at Mill Hill Elementary School February 16, 2018. The subject site serves as an elementary school for Fairfield public schools.

#### Methods

Big East Environmental collected first draw and flush water samples from the school's main sink in the kitchen location (as close to the water main line as possible). The school was directed to not open the taps prior to the arrival of the sample collection technician. 250 ml of water was collected for first draw samples. The tap was then opened for 30 seconds and an additional 250 ml of water was collected. All samples were collected, labeled, stored in a cooler, and transported to Phoenix Environmental Laboratories under chain of custody protocol. The laboratory report is attached.

#### Findings

Water samples did NOT exceed the EPA's action level of 0.015 mg/L for lead in water.

#### SAMPLE RESULTS

School Name	Sample ID	Result mg/L	AL mg/L
Mill Hill	DW-1 First Draw	<0.0005	0.015
	DW-2 Flush	<0.0005	0.015

**Source:** Kitchen Sink Tap

#### RESULTS KEY

\*exceeds AL

\*\*exceeds secondary goal

AL – Action Level

MCL – Maximum Contaminant Level



*MCLG – Maximum Contaminant Level Goal*

*NE – Not Established*

*Mg/L – milligrams per liter of water / parts per million*

*µg/L – micrograms per liter of water / parts per billion*

*pCi/L – pico curies per liter*

*sec. goal – secondary goal*

Action Level (AL): 40 CFR Part 141.80

Maximum Contaminant Level (Lower of): 40 CFR Part 141; Public Health Law, Section 225 Part 5, Subpart 5-1. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Secondary DW Maximum Contaminant Level Goal (MCLG): 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

Sincerely,

*Steve DiNapoli*

Steve DiNapoli, LEED AP, CMC

President

Big East Environmental

[steve@bigeastlabs.com](mailto:steve@bigeastlabs.com)



Wednesday, February 21, 2018

Attn: Mr. Steve Dinapoli  
Big East Environmental LLC  
68 Water Street, Unit F  
Norwalk, CT 06854

Project ID: 18076  
Sample ID#s: BZ91361 - BZ91362

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis/Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



**Environmental Laboratories, Inc.**  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 February 21, 2018

FOR: Attn: Mr. Steve Dinapoli  
 Big East Environmental LLC  
 68 Water Street, Unit F  
 Norwalk, CT 06854

Sample Information

Matrix: DRINKING WATER  
 Location Code: BIG-EAST  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by: JD  
 Received by: SW  
 Analyzed by: see "By" below

Date

02/16/18  
 02/19/18

Time

10:03  
 12:00

Laboratory Data

SDG ID: GBZ91361  
 Phoenix ID: BZ91361

Project ID: 18076  
 Client ID: DW-1

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	< 0.0005	0.0005	1	mg/L	0.015			02/20/18	RS	E200.9-2.2
Total Metal Digestion	Completed							02/19/18	BF	E200.9

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected  
 BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)  
 AL = Action Level MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

**Comments:**

Maximum Contaminant Level (MCL) (Lower of): 40 CFR Part 141; CT Public Health Code 19-13-B102. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Action Level (AL): 40 CFR Part 141.80.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143; CT Public Health Code 19-13-B102. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

If there are any questions regarding this data, please call Phoenix Client Services.  
 This report must not be reproduced except in full as defined by the attached chain of custody.

**Phyllis Shiller, Laboratory Director**

**February 21, 2018**

**Reviewed and Released by: Rashmi Makol, Project Manager**



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**Analysis Report**  
 February 21, 2018

FOR: Attn: Mr. Steve Dinapoli  
 Big East Environmental LLC  
 68 Water Street, Unit F  
 Norwalk, CT 06854

Sample Information

Matrix: DRINKING WATER  
 Location Code: BIG-EAST  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by: JD  
 Received by: SW  
 Analyzed by: see "By" below

Date

02/16/18  
 02/19/18

Time

10:10  
 12:00

Laboratory Data

SDG ID: GBZ91361  
 Phoenix ID: BZ91362

Project ID: 18076  
 Client ID: DW-2

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	< 0.0005	0.0005	1	mg/L	0.015			02/20/18	RS	E200.9-2.2
Total Metal Digestion	Completed							02/19/18	BF	E200.9

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**Phyllis Shiller, Laboratory Director**

**February 21, 2018**

**Reviewed and Released by: Rashmi Makol, Project Manager**



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# QA/QC Report

February 21, 2018


## QA/QC Data

SDG I.D.: GBZ91361

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 420372 (mg/L), QC Sample No: BZ91361 (BZ91361, BZ91362)													
Lead	BRL	0.0005	<0.0005	<0.0005	NC	110			114			85 - 115	20
Comment:													
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 February 21, 2018

Wednesday, February 21, 2018

Criteria: CT: DW

State: CT

## Sample Criteria Exceedances Report

### GBZ91361 - BIG-EAST

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Phoenix Environmental Labs, Inc.

**Client:** Big East Environmental LLC

**Project Location:** 18076

**Project Number:**

**Laboratory Sample ID(s):** BZ91361, BZ91362

**Sampling Date(s):** 2/16/2018

**List RCP Methods Used (e.g., 8260, 8270, et cetera)** 7000

<b>1</b>	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1A</b>	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>1B</b>	<u><i>VPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
<b>2</b>	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>3</b>	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
<b>4</b>	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>5</b>	a) Were reporting limits specified or referenced on the chain-of-custody?  b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>6</b>	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>7</b>	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

**Authorized Signature:** Rashmi Makol **Position:** Project Manager

**Printed Name:** Rashmi Makol **Date:** Wednesday, February 21, 2018

**Name of Laboratory** Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**



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Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

February 21, 2018

SDG I.D.: GBZ91361

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### **SDG Comments**

#### Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Lead is reported as requested on the chain of custody.

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### **AA Metals (PB-DW) Narration**

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### **Instrument:**

**PE600-1 02/20/18 13:37**

Rick Schweitzer, Chemist 02/20/18

BZ91361, BZ91362

Any sample below with an analytical spike recovery outside of 85-115% was re-analyzed at a dilution with a passing analytical spike recovery.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following samples did not meet analytical spike criteria: None.

#### **QC (Site Specific):**

**Batch 420372 (BZ91361)**

BZ91361, BZ91362

All LCS recoveries were within 85 - 115 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.

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### **Temperature Narration**

The samples were received at 5.2C with cooling initiated.

(Note acceptance criteria is above freezing up to 6°C)

