

BEDFORD CENTRAL SCHOOL DISTRICT FOX LANE CAMPUS P.O. BOX 180 MOUNT KISCO, NY 10549

LEAD WATER TESTING

For

BCSD Administration Building Fox Lane Campus Mount Kisco, NY 10549

Date of Assessment: October 20, 2016

Date of Report: October 28, 2016

Completed By: Justin Joe, PhD, CSP

Industrial Hygienist / Building Inspector

BNF Consulting, Inc. 152 Route 202, #404 Lincolndale, NY 10540 bnfjustin@gmail.com



EXECUTIVE SUMMARY

On October 20, 2016, lead water testing was completed for BCSD Administration Building, a building of the Bedford Central School District (BCSD), located at Fox Lane Campus, Mount Kisco, NY 10549. Primarily assisting in the completion of this study were Mr. Gregory Sullivan, Interim Assistant Superintendent; Mr. Shawn Pitrulle, Interim Director of Buildings and Grounds; and the maintenance staff in BCSD Administration Building.

The purpose of this survey is to comply to 10 NYCRR SUBPART 67-4: Lead Testing in School Drinking Water. This subpart requires all school districts and boards of cooperative education services, including those already classified as a public water system under 10 NYCRR Subpart 5-1, to test portable water for lead contamination and to develop and implement a lead remediation plan when applicable. Action Level used in the Subpart means 15 micrograms per liter (μ g/L) or parts per billion (ppb). Exceedance of the action level requires a response to implement a lead remediation plan.

First-draw water samples were collected from all available water outlets including faucets, sinks and water fountains in and around the building. These areas included conference rooms, restrooms, hallways, the kitchen, custodial closets, the boiler room and the exterior. The sampled water was motionless in the pipes for a minimum of 8 hours, but not more than 18 hours before the sample collection according to the guideline from the Subpart. The first-draw samples were collected from a cold water outlet before any water was used. The samples were sent to Phoenix Environmental Laboratories, Inc., which is approved to perform lead analyses by the Department's Environmental Laboratory Approval Program (ELAP#: 11715).

Lab results indicate that:

- 3 out of 12 water outlets were above the action level.
- No water fountains and kitchen sink were above the action level.
- The following water outlets are listed as being above the action level:
 - 1. Sink in the basement bathroom
 - 2. Outlet in the boiler room
 - 3. Exterior outlet on the South side



RECOMMENDATIONS

The following is a recommendation from this survey.

2016-10-01	Install carbon filters to reduce the lead content from the water outlet fixtures tested above the action level, or the allowable limits.
2016-10-02	Check for plumbing work. If copper pipes are joined with lead solder that has been installed, notify a qualified plumber to replace the lead solder with lead-free solder. Lead solder looks dull gray and when scratched with a key, looks shiny.
2016-10-03	Check type of piping used to connect to water main. Determine whether or not

the service line that connects the building to the water line is made of lead.

CONCLUSION

This survey revealed that most of the lead testing from water source fixtures indicated low or non-detectable exposures. However, 3 out of 12 samples were above the Action Level, 15 micrograms per liter (μ g/L) or parts per billion (ppb), listed in the report. No water fountains or kitchen sink were above the action level.

The recommendations in this report are intended to achieve the goal of a safer and more healthful environment. If the recommendations are completed, future health issues should be prevented.

If there are any questions regarding the contents of this report or further assistance is needed for recommendation completion, please feel free to contact Dr. Justin Joe, who can be reached via the following:

Justin H. Joe, PhD, CSP BNF Consulting, Inc. 152 Route 202, #404 Lincolndale, NY 10540 bnfjustin@gmail.com

A closing Thank You is extended to all who assisted or participated in completion of this Survey.

The information, suggestions and recommendations contained herein are for general informational purposes only. This information has been compiled from sources believed to be reliable. No warranty, guarantee, or representation, either expressed or implied, is made as to the correctness or sufficiency of any representation contained herein. This information should not be construed as business, risk management, or legal advice or legal opinion.



APPENDIX A

LEAD WATER TESTING LAB RESULTS



Friday, October 28, 2016

Attn: Justin Joe BNF Consulting 152 Route 202 #404 Lincolndale, NY 10540-0404

Project ID: BCSD ADMINISTRATION BUILDING

Sample ID#s: BV60182, BV60184 - BV60194

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.

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,

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301

CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007

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

VT Lab Registration #VT11301





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

Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:52Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

Laboratory Data

SDG ID: GBV60182

Phoenix ID: BV60182

Project ID: BCSD ADMINISTRATION BUILDING
Client ID: 891 1ST FLOOR WOMEN LEFT

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Βv Lead 0.0009 0.0005 mg/L 0.015 10/26/16 E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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; Public Health Law, Section 225 Part 5. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 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.

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October 28, 2016

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Page 1 of 12 Ver 1







Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:52Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

Laborate

Laboratory Data

SDG ID: GBV60182
Phoenix ID: BV60184

Project ID: BCSD ADMINISTRATION BUILDING
Client ID: 892 1ST FLOOR WOMEN RIGHT

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0016 0.0005 mg/L 0.015 10/25/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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

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Page 2 of 12 Ver 1





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Analysis Report

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FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:52Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

Laboratory Data

SDG ID: GBV60182

Phoenix ID: BV60185

Project ID: BCSD ADMINISTRATION BUILDING

Client ID: 893 1ST FLOOR MEN LEFT

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0044 0.0020 mg/L 0.015 10/25/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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Page 3 of 12 Ver 1







Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:52Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

<u>Laboratory Data</u>

SDG ID: GBV60182

Phoenix ID: BV60186

Project ID: BCSD ADMINISTRATION BUILDING

Client ID: 894 1ST FLOOR MEN RIGHT

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0030 0.0020 mg/L 0.015 10/25/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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Page 4 of 12 Ver 1







SDG ID: GBV60182 Phoenix ID: BV60187

Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:48Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

BCSD ADMINISTRATION BUILDING

Client ID: 895 1ST FLOOR WF HIGH

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead < 0.0005 0.0005 mg/L 0.015 10/25/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

aboratory Data

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Comments:

P.O.#:

Project ID:

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Page 5 of 12 Ver 1





SDG ID: GBV60182 Phoenix ID: BV60188

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Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

> **BNF** Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample Information **Custody Information** Date Time 10/20/16 Matrix: DRINKING WATER Collected by: 6:48 Received by: **BNFCNSLT** LB 10/20/16 16:32 Location Code: Standard

Rush Request: Analyzed by: see "By" below

BCSD ADMINISTRATION BUILDING

896 1ST FLOOR WF LOW Client ID:

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead < 0.0005 0.0005 mg/L 0.015 10/25/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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Comments:

P.O.#:

Project ID:

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Page 6 of 12 Ver 1





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Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:48Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

aboratory Data SDG ID: GBV60182

Phoenix ID: BV60189

Project ID: BCSD ADMINISTRATION BUILDING

Client ID: 897 CUSTODIAL CLOSET

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0042 0.0020 mg/L 0.015 10/26/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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Page 7 of 12 Ver 1







Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/166:57Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

Laboratory Data

SDG ID: GBV60182

Phoenix ID: BV60190

Project ID: BCSD ADMINISTRATION BUILDING

Client ID: 898 KITCHEN

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Βv Lead 0.0017 0.0010 mg/L 0.015 10/26/16 E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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October 28, 2016

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Page 8 of 12 Ver 1





SDG ID: GBV60182

Phoenix ID: BV60191

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Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

> **BNF** Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample Information **Custody Information** Date Time 10/20/16 Matrix: DRINKING WATER Collected by: 6:59 Received by: **BNFCNSLT** LB 10/20/16 Location Code: 16:32 Standard

aboratory Data

Rush Request: Analyzed by: see "By" below

BCSD ADMINISTRATION BUILDING Project ID:

899 BASEMENT BATHROOM Client ID:

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0178 0.0050 mg/L 0.015 10/26/16 TH/RS E200.9/SM3113B-10

*** Lead exceeds Action Level of 0.015 ***

10/21/16 **Total Metal Digestion** Completed CB/G/CB 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:

P.O.#:

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Page 9 of 12 Ver 1







SDG ID: GBV60182 Phoenix ID: BV60192

Analysis Report

October 28, 2016

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BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample Information **Custody Information** Date Time 10/20/16 Matrix: DRINKING WATER Collected by: 6:59 Received by: **BNFCNSLT** LB 10/20/16 Location Code: 16:32 Rush Request: Standard Analyzed by: see "By" below

P.O.#:

<u>Laboratory Data</u>

BCSD ADMINISTRATION BUILDING

Client ID: 900 BOILER ROOM

RL/

Parameter **PQL** DIL Units AL MCL MCLG Date/Time Reference Result Lead 0.0226 0.0050 mg/L 0.015 10/26/16 TH/RS E200.9/SM3113B-10 *** Lead exceeds Action Level of 0.015 *** 10/21/16 **Total Metal Digestion** Completed CB/G/CB 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

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Project ID:

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Page 10 of 12 Ver 1







Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/167:00Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

_aboratory Data SDG ID: GBV60182

Phoenix ID: BV60193

Project ID: BCSD ADMINISTRATION BUILDING

Client ID: 901 EXTERIOR NORTH

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0077 0.0050 mg/L 0.015 10/26/16 TH/RS E200.9/SM3113B-10 Completed 10/21/16 CB/G/CB E200.9 **Total Metal Digestion**

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Page 11 of 12 Ver 1





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Analysis Report

October 28, 2016

FOR: Attn: Justin Joe

BNF Consulting 152 Route 202 #404

Lincolndale, NY 10540-0404

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:10/20/167:06Location Code:BNFCNSLTReceived by:LB10/20/1616:32

Rush Request: Standard Analyzed by: see "By" below

P.O.#:

Laboratory Data SDG ID: GBV60182

Phoenix ID: BV60194

Project ID: BCSD ADMINISTRATION BUILDING

Client ID: 902 EXTERIOR SOUTH

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Lead 0.0531 0.0050 mg/L 0.015 10/26/16 TH/RS E200.9/SM3113B-10 *** Lead exceeds Action Level of 0.015 *** 10/21/16 **Total Metal Digestion** Completed CB/G/CB E200.9

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Action Level (AL): (Lower of): 40 CFR Part 141.80; Public Health Law, Section 225 Part 5.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 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.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200. This report must not be reproduced except in full as defined by the attached chain of custody.

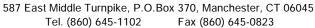
Phyllis Shiller, Laboratory Director

October 28, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Page 12 of 12 Ver 1







QA/QC Report

October 28, 2016

QA/QC Data

SDG I.D.: G	BV60182
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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 363819 (mg/L), QC Sample No: BV60177 (BV60182, BV60184, BV60185, BV60186, BV60187)														
Lead	BRL	0.001	0.0023	0.0023	NC	92.0			89.1			85 - 115	20	
Comment:														
Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.														
QA/QC Batch 363819A (mg/L), QC Sample No: BV60188 (BV60188, BV60189, BV60190, BV60191, BV60192, BV60193, BV60194)								94)						
Lead	BRL	0.001				92.0			69.1			85 - 115	20	m
Comment:														
This batch does not include a duplicate.														

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

m = This parameter is outside laboratory MS/MSD specified recovery limits.

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

October 28, 2016

Friday, October 28, 2016

Sample Criteria Exceedances Report

GBV60182 - BNFCNSLT

Criteria: None State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Units
BV60191	PB-DW	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0178	0.0050	0.015	0.001	mg/L
BV60191	PB-DW	Lead	NY / NY Residential DW / Lead & Copper Als	0.0178	0.0050	0.015	0.015	mg/L
BV60192	PB-DW	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0226	0.0050	0.015	0.001	mg/L
BV60192	PB-DW	Lead	NY / NY Residential DW / Lead & Copper Als	0.0226	0.0050	0.015	0.015	mg/L
BV60194	PB-DW	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper ALs	0.0531	0.0050	0.015	0.001	mg/L
BV60194	PB-DW	Lead	NY / NY Residential DW / Lead & Copper Als	0.0531	0.0050	0.015	0.015	mg/L

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

Page 1 of 1



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

e nelace

NY Temperature Narration

October 28, 2016

SDG I.D.: GBV60182

The samples in this delivery group were received at 20° C. (Note acceptance criteria is above freezing up to 6° C)

BNP

SOMIC

BCSD Lead Water Sampling COC - Administration Building

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0182	891	10/19	2100	10/20	0657	Hillside	See the floor plan	1st Floor Women Left	6018
0184	892	10/19	2100					1st Floor Women Right	to to 18
0185	893	10/19	2102	10/20	0657	Hillside	See the floor plan	1st Floor Men Left	10018
0186		10/19	2102					1st Floor Men Right	teta \$
7810	895	10/19	2104	10/20	842	Hillside	See the floor plan	1st Floor WF High	VB 10
0188	896	10/19	2104	10/20	0648	Hillside	See the floor plan	1st Floor WF Low	
0189	897	10/19	2106	10/20	૦૯ન8	Hillside	See the floor plan	Custodial closet	
0910	898	10/19	2107	10/20	0657	Hillside	See the floor plan	Kitchen	
1910		10/19	2108	10/20	0659	Hillside	See the floor plan	Basement bathroom	
0192		10/19	2110	10/20	0659	Hillside	See the floor plan	Boiler room	
0193	901	10/19	1711	10/20	0700	Hillside	See the floor plan	Exterior North	
0194	902	10/19	1713	10/20	0706	Hillside	See the floor plan	Exterior South	
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Client Services

From: Justin Joe <<u>br/>bnfjustin@gmail.com</u>>
Sent: Justin Joe <<u>br/>bnfjustin@gmail.com</u>>
Tuesday, October 25, 2016 10:36 PM

To: Client Services

Subject: Re: Phoenix Labs - GBV60182, HILLSIDE ADMINISTRATION BUILDING - COC

Acknowledgement

Hi.

Would you change the name of the building as:

BCSD Administration Building, not Hillside Administration Building

Thank you.

- Justin

On Oct 20, 2016, at 8:39 PM, <u>clientservices@phoenixlabs.com</u> wrote:

Justin,

Please email client services only if you Require a PO# on your Invoice, a PO# was not listed on the COC.

Delivery group GBV60182 (HILLSIDE ADMINISTRATION BUILDING) has been logged in for the following samples:

Phoenix Id	Client Id
BV60182	891 1ST FLOOR WOMEN LEFT
BV60184	892 1ST FLOOR WOMEN RIGHT
BV60185	893 1ST FLOOR MEN LEFT
BV60186	894 1ST FLOOR MEN RIGHT
BV60187	895 1ST FLOOR WF HIGH
BV60188	896 1ST FLOOR WF LOW
BV60189	897 CUSTODIAL CLOSET
BV60190	898 KITCHEN
BV60191	899 BASEMENT BATHROOM
BV60192	900 BOILER ROOM
BV60193	901 EXTERIOR NORTH
BV60194	902 EXTERIOR SOUTH

The samples in this delivery group were received at 20°C. (Note acceptance criteria is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at

extension 200.

Phoenix Environmental Laboratories, Inc. 587 East Middle Turnpike P.O. Box 370 Manchester, CT 06374 Tel. (860) 645-1102 Fax. (860) 645-0823 www.phoenixlabs.com

Please do not reply to this email.
<Sample Acknowledgement.pdf>