



# *Lyndhurst Public Schools*

## **BOARD OF EDUCATION**

420 Fern Avenue □ Lyndhurst, NJ 07071

Ph: 201.438.5683 Fax: 201.896.2118 □ [www.lyndhurstschools.net](http://www.lyndhurstschools.net)

**SHAUNA C. DEMARCO**

*Superintendent of Schools*

**JAMES A. CORINO, ED. D.**

*Interim Assistant Superintendent*

**DAVID DIPISA**

*School Business Administrator  
Board Secretary*

July 28, 2016

Dear Parents and Caregivers,

Starting with the 2016-17 school year, NJ school districts are required to test their drinking water for lead. New rules regarding lead testing in water were implemented by Governor Chris Christie after elevated lead levels were found last year in the water of several school districts, including Newark. Officials declare that potential exposure to lead-contaminated drinking water poses serious health risks.

Under the new rules adopted by the state, school districts in New Jersey that have not tested their drinking water for lead must do so within one year. These new regulations also mandate districts to test the water used for drinking and cooking at least once every six years.

These new regulations were passed by the State Board of Education on Wednesday, July 13, 2016. All NJ districts which test within a year of these new regulations are granted eligibility for reimbursement of testing costs through the state of NJ. Districts are also given the opportunity to apply for a one-year extension if their water has been tested within the past five years.

The Lyndhurst Public Schools conducted lead testing district wide from June 7, 2016 through June 9, 2016. There were fifty-two (52) samples taken and tested by McCabe Environmental Services, LLC.

We are pleased to report that only one (1) sink, located in the office of the high school athletic trainer, by the gymnasium, did not pass the lead test. This sink has been placed out of service and follow-up tests are being conducted, as required by regulation, to locate the origin of the problem and resolve it accordingly.

A complete report of each school's test results can be found on the respective school's website. Go to [www.lyndhurstschools.net](http://www.lyndhurstschools.net). and click on the tab of the school to view this information. If any further questions need to be answered, please contact David DiPisa, the School Business Administrator of the Lyndhurst Public Schools, at 201.438.5683 x4728.

Sincerely,

*David DiPisa*

School Business Administrator/Board Secretary

*Shauna C. DeMarco*

Superintendent of Schools



## **LEAD IN DRINKING WATER TESTING REPORT**

***Conducted for:***

Lyndhurst Board of Education  
420 Fern Avenue  
Lyndhurst, New Jersey 07071

***Conducted at:***

Lyndhurst High School  
400 Weart Avenue  
Lyndhurst, New Jersey 07071

***Submitted by:***

McCabe Environmental Services, L.L.C.  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

**REPORT DATE:** June 21, 2016

**MES PROJECT NO.:** 16-03012

***Prepared by:***

**Michael O'Hanlon  
Environmental Field Technician**

***Signed for the Company by:***

**John H. Chiaviello  
Vice President**

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### **APPENDIX A**

Laboratory Certificates of Analysis  
&  
Sample Chain of Custody Forms





## **1.0     INTRODUCTION**

McCabe Environmental Services, L.L.C. (McCabe) was retained by Lyndhurst Board of Education to conduct lead in drinking water testing at Lyndhurst High School.

The project information is as follows:

Client Name: Lyndhurst Board of Education  
Contact Person: Mr. David DiPisa

Project Name: Lyndhurst High School  
Project Location: 400 Weart Avenue  
Lyndhurst, New Jersey 07071

Date(s) of Service: June 09, 2016

McCabe Personnel: Michael O'Hanlon

## **2.0     SCOPE OF WORK**

Drinking water testing was performed at Lyndhurst High School on June 09, 2016. The purpose of the testing was to determine if the building's plumbing was having an adverse impact on water quality, specifically with regard to lead concentrations. Samples were collected from various potential drinking water outlets located throughout the building.

## **3.0     PROCEDURES**

After determining which outlets would be sampled, McCabe personnel collected a "first draw" sample at each location. A "first draw" is the initial water that is first to come out of the tap after a period of inactivity. All samples were collected into 250 mL sterile bottles, labeled with a sample identification, and analyzed in accordance with EPA approved methods to determine the level of lead in drinking water. Samples were analyzed by an accredited laboratory.

The U.S. Environmental Protection Agency (EPA) has established National Primary Drinking Water Regulations (NPDWR) that set mandatory water quality standards for drinking water contaminants. These are enforceable standards called "maximum contaminant levels" or "MCL", which are established to protect the public against consumption of drinking water contaminants that present a risk to human health. An MCL is the maximum allowable amount of a contaminant in drinking water which is delivered to the consumer.

The EPA has established the Lead and Copper Rule that sets standards for state and public water systems. This rule has set an MCL for lead at 15 parts per billion (ppb) for a one liter sample. However, the EPA also established the Lead in Drinking Water at Schools and Child Care Facilities in which the EPA recommends an MCL of 20 ppb for a 250 milliliter first draw sample. In order to be more stringent, for our report purposes we have compared all results to both the 15 ppb and the 20 ppb standards.



#### **4.0     TABLE OF SAMPLE RESULTS**

Table 4.1 presents all sample results:

<b>Table 4.1</b>				
<b>Sample ID</b>	<b>Sample Location</b>	<b>Lead Result (ppb)</b>	<b>Exceeds (MCL 15 ppb)</b>	<b>Exceeds (MCL 20 ppb)</b>
LHS – 01	Water Cooler Outside Room 149	< 1.0	Pass	Pass
LHS – 02	Cafeteria Sink	2.0	Pass	Pass
LHS – 03	Double Wall Fountain Outside of Gym (Higher One of the Two)	< 1.0	Pass	Pass
LHS – 04	Water Cooler Outside of Room 104 B	2.0	Pass	Pass
LHS – 05	Water Cooler Outside of Girl's Locker Room	< 1.0	Pass	Pass
<b>LHS – 06</b>	<b>Athletic Room Sink</b>	<b>59.0</b>	<b>Fail</b>	<b>Fail</b>
LHS – 07	Water Cooler Outside of Guidance Office	< 1.0	Pass	Pass
LHS – 08	Water Cooler Outside of Storage Room	< 1.0	Pass	Pass
LHS – 09	Sink in Library	6.0	Pass	Pass
LHS – 10	Girl's Bathroom Sink Outside of Room 214	< 1.0	Pass	Pass

#### **5.0     DISCUSSION AND CONCLUSION**

As per Table 4.1, a total of ten (10) samples were collected from Lyndhurst High School. One (1) sample was found to be greater than the EPA Lead and Copper Rule standard of 15 ppb, as well as the EPA Lead in Drinking Water at Schools and Child Care Facilities standard of 20 ppb. All other samples were found to be less than the EPA standards of 20 ppb and 15 ppb.

McCabe recommends discontinued usage of the outlet which resulted in failed result until additional samples can be collected and analyzed and a permanent solution can be recommended.

In addition, McCabe Environmental recommends annual drinking water sampling to ensure that the building's plumbing is not having an adverse impact on water quality.

**APPENDIX A**  
**LABORATORY CERTIFICATES OF ANALYSIS**  
**&**  
**SAMPLE CHAIN OF CUSTODY FORMS**



Tuesday, June 14, 2016

Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

Project ID: 16-03012  
Sample ID#s: BN52066 - BN52075

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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





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



## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date Time

06/09/16 5:15  
06/09/16 18:45

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52066

Project ID: 16-03012  
Client ID: LHS-01

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/09/16	TH	E200.5/E200.7

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.)  
MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

### Comments:

Maximum Contaminant Level: 40 CFR Part 141. 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.

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

June 14, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date Time

06/09/16 5:23  
06/09/16 18:45

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52067

Project ID: 16-03012  
Client ID: LHS-02

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	0.002	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/09/16	TH	E200.5/E200.7

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected  
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June 14, 2016

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16  
06/09/16

### Time

5:28  
18:45

## Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52068

Project ID: 16-03012  
Client ID: LHS-03

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/09/16	TH	E200.5/E200.7

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### Comments:

Maximum Contaminant Level: 40 CFR Part 141. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

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June 14, 2016

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16  
06/09/16

### Time

5:33  
18:45

## Laboratory Data

SDG ID: GBN52066

Phoenix ID: BN52069

Project ID: 16-03012  
Client ID: LHS-04

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	0.002	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/09/16	TH	E200.5/E200.7

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16  
06/09/16

### Time

5:34  
18:45

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52070

Project ID: 16-03012  
Client ID: LHS-05

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16  
06/09/16

### Time

5:40  
18:45

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52071

Project ID: 16-03012  
Client ID: LHS-06

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	0.059	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
*** Lead exceeds MCL levels ***									
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16  
06/09/16

### Time

5:45  
18:45

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52072

Project ID: 16-03012  
Client ID: LHS-07

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date Time

06/09/16 5:49  
06/09/16 18:45

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52073

Project ID: 16-03012  
Client ID: LHS-08

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16 5:55  
06/09/16 18:45

### Time

### Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52074

Project ID: 16-03012  
Client ID: LHS-09

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	0.006	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)  
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## Analysis Report

June 14, 2016

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McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16 6:01  
06/09/16 18:45

### Time

## Laboratory Data

SDG ID: GBN52066  
Phoenix ID: BN52075

Project ID: 16-03012  
Client ID: LHS-10

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

### Comments:

Maximum Contaminant Level: 40 CFR Part 141. 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.

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

June 14, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



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



## QA/QC Report

June 14, 2016

### QA/QC Data

SDG I.D.: GBN52066

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 348539 (mg/L), QC Sample No: BN51689 (BN52066, BN52067, BN52068, BN52069)

#### ICP Metals - Aqueous

Lead	BRL	0.001	0.023	0.024	4.30	95.3			89.3			85 - 115	20
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Comment:

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

QA/QC Batch 348732 (mg/L), QC Sample No: BN52070 (BN52070, BN52071, BN52072, BN52073, BN52074, BN52075)

#### ICP Metals - Aqueous

Lead	BRL	0.001	<0.001	<0.001	NC	92.4			91.5			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  
June 14, 2016

Tuesday, June 14, 2016

Criteria: None

State: NJ

## Sample Criteria Exceedences Report

GBN52066 - MCCABE

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BN52071	PB-DWICP	Lead	EPA / 40 CFR 141 DW / 141.80 Lead & Copper MCLs	0.059	0.001	0.015	0.001	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.

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**Environmental Laboratories, Inc.**

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## Analysis Comments

June 14, 2016

SDG I.D.: GBN52066

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



# MCCABE ENVIRONMENTAL SERVICES, L.L.C.

464 VALLEY BROOK AVENUE LYNTHURST, NJ 07071 • PHONE: (201)438-4839 FAX: (201)438-1798

## LEAD in DRINKING WATER

### CHAIN-OF-CUSTODY FORM

CLIENT NAME: Lyndhurst Board of Education		SITE ADDRESS: Lyndhurst High School 400 Weart Avenue, Lyndhurst, New Jersey 07071	
FIELD INSPECTOR'S NAME: Michael O'Hanlon		TURNAROUND TIME REQUESTED: 5-7 Days	
MES PROJECT #: 16-03012	SAMPLE DATE: 06/09/2016		

Matrix	SAMPLE ID	SAMPLE LOCATION	TIME COLLECTED	ANALYSIS REQUESTED
DW	LHS-01	first floor Water Cooler outside of Room 149	5:15 AM	LEAD - 200.8
DW	LHS-02	Cafeteria Sink	5:23 AM	LEAD - 200.8
DW	LHS-03	Double Water Cooler outside of Gym	5:28 AM	LEAD - 200.8
DW	LHS-04	Water Cooler Outside of Room 104 B	5:33 AM	LEAD - 200.8
DW	LHS-05	Water Cooler Outside of Girl's Locker Room	5:34 AM	LEAD - 200.8
DW	LHS-06	Athletic Room Sink	5:40 AM	LEAD - 200.8
DW	LHS-07	Water Cooler Outside of Guidance Office	5:45 AM	LEAD - 200.8
DW	LHS-08	Cooler Outside of Storage Room 204	5:49 AM	LEAD - 200.8
DW	LHS-09	Sink in Library	5:55 AM	LEAD - 200.8
DW	LHS-10	Girls Bathroom Sink outside of 214	6:01 AM	LEAD - 200.8

Relinquished by (Print) Michael O'Hanlon	Date: 06/09/16	Received by: (Print)	Date: Time:
Signature: <i>Michael O'Hanlon</i>		Signature:	
Relinquished by (Print) <i>Barbara Leone</i>	Date: 6-9-16	Received by: (Print) <i>Barbara Leone</i>	Date: Time: 6/9/16 2:00
Signature: <i>Barbara Leone</i>	1300	Signature: <i>Barbara Leone</i>	

Laboratory Analysis Performed by (Analyst Signature, Laboratory Name & Location): Phoenix Environmental Laboratories



## **LEAD IN DRINKING WATER TESTING REPORT**

***Conducted for:***

Lyndhurst Board of Education  
420 Fern Avenue  
Lyndhurst, New Jersey 07071

***Conducted at:***

Lighthouse Campus  
601 Riverside Avenue  
Lyndhurst, New Jersey 07071

***Submitted by:***

McCabe Environmental Services, L.L.C.  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

**REPORT DATE:** June 21, 2016

**MES PROJECT NO.:** 16-03014

***Prepared by:***

**Michael O'Hanlon  
Environmental Field Technician**

***Signed for the Company by:***

**John H. Chiaviello  
Vice President**

TABLE OF CONTENTS

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2.0 SCOPE OF WORK.....	1
3.0 PROCEDURES .....	1
4.0 TABLE OF SAMPLE RESULTS .....	2
5.0 DISCUSSION AND CONCLUSION .....	2

APPENDIX A

Laboratory Certificates of Analysis  
&  
Sample Chain of Custody Forms



## **1.0     INTRODUCTION**

McCabe Environmental Services, L.L.C. (McCabe) was retained by Lyndhurst Board of Education to conduct lead in drinking water testing at Lighthouse Campus.

The project information is as follows:

Client Name: Lyndhurst Board of Education  
Contact Person: Mr. David DiPisa

Project Name: Lighthouse Campus  
Project Location: 601 Riverside Avenue  
Lyndhurst, New Jersey 07071

Date(s) of Service: June 09, 2016

McCabe Personnel: Michael O'Hanlon

## **2.0     SCOPE OF WORK**

Drinking water testing was performed at Lighthouse Campus on June 09, 2016. The purpose of the testing was to determine if the building's plumbing was having an adverse impact on water quality, specifically with regard to lead concentrations. The sample was collected from a potential drinking water outlet located inside the building.

## **3.0     PROCEDURES**

After determining which outlet would be sampled, McCabe personnel collected a "first draw" sample at that location. A "first draw" is the initial water that is first to come out of the tap after a period of inactivity. The sample was collected into a 250 mL sterile bottle, labeled with a sample identification, and analyzed in accordance with EPA approved methods to determine the level of lead in drinking water. The sample was analyzed by an accredited laboratory.

The U.S. Environmental Protection Agency (EPA) has established National Primary Drinking Water Regulations (NPDWR) that set mandatory water quality standards for drinking water contaminants. These are enforceable standards called "maximum contaminant levels" or "MCL", which are established to protect the public against consumption of drinking water contaminants that present a risk to human health. An MCL is the maximum allowable amount of a contaminant in drinking water which is delivered to the consumer.

The EPA has established the Lead and Copper Rule that sets standards for state and public water systems. This rule has set an MCL for lead at 15 parts per billion (ppb) for a one liter sample. However, the EPA also established the Lead in Drinking Water at Schools and Child Care Facilities in which the EPA recommends an MCL of 20 ppb for a 250 milliliter first draw sample. In order to be more stringent, for our report purposes we have compared all results to both the 15 ppb and the 20 ppb standards.

#### **4.0     TABLE OF SAMPLE RESULTS**

Table 4.1 presents all sample results:

<b>Table 4.1</b>				
<b>Sample ID</b>	<b>Sample Location</b>	<b>Lead Result (ppb)</b>	<b>Exceeds (MCL 15 ppb)</b>	<b>Exceeds (MCL 20 ppb)</b>
LC – 01	Kitchen Sink	< 1.0	Pass	Pass

#### **5.0     DISCUSSION AND CONCLUSION**

As per Table 4.1, a total of one (1) sample was collected from Lighthouse Campus. The sample was found to be less than the EPA Lead in Drinking Water at Schools and Child Care Facilities standard of 20 ppb, as well as the EPA Lead and Copper Rule standard of 15 ppb.

In addition, McCabe Environmental recommends annual drinking water sampling to ensure that the building's plumbing is not having an adverse impact on water quality.

**APPENDIX A**

**LABORATORY CERTIFICATES OF ANALYSIS  
&  
SAMPLE CHAIN OF CUSTODY FORMS**





Tuesday, June 14, 2016

Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

Project ID: 16-03014  
Sample ID#s: BN52081

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,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

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



Environmental Laboratories, Inc.  
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Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Report

June 14, 2016

FOR: Attn: Janet Leone  
McCabe Environmental Services, LLC  
464 Valley Brook Avenue  
Lyndhurst, New Jersey 07071

### Sample Information

Matrix: DRINKING WATER  
Location Code: MCCABE  
Rush Request: Standard  
P.O.#:

### Custody Information

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

### Date

06/09/16  
06/09/16

### Time

6:47  
18:45

### Laboratory Data

SDG ID: GBN52081  
Phoenix ID: BN52081

Project ID: 16-03014  
Client ID: LC-01

Parameter	Result	RL/ PQL	DIL	Units	DW MCL	Sec Goal	Date/Time	By	Reference
Lead	< 0.001	0.001	1	mg/L	0.015		06/11/16	LK	E200.5
Total Metal Digestion	Completed						06/10/16	TH/AG	E200.5/E200.7

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.)  
MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

### Comments:

Maximum Contaminant Level: 40 CFR Part 141. 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.

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

June 14, 2016

Reviewed and Released by: Bobbi Aloisa, Vice President



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## QA/QC Report

June 14, 2016

### QA/QC Data

SDG I.D.: GBN52081

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 348732A (mg/L), QC Sample No: BN52080 (BN52081)

#### ICP Metals - Aqueous

Lead	BRL	0.001				92.4						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  
June 14, 2016



Tuesday, June 14, 2016

Criteria: None

State: NJ

## Sample Criteria Exceedences Report

GBN52081 - MCCABE

Page 1 of 1

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 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.



**Environmental Laboratories, Inc.**

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



## Analysis Comments

June 14, 2016

SDG I.D.: GBN52081

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The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

2002

## MCCABE ENVIRONMENTAL SERVICES, L.L.C.

464 VALLEY BROOK AVENUE LYNDBURST, NJ 07071 • PHONE: (201)438-4839 FAX: (201)438-1798

## LEAD in DRINKING WATER

## CHAIN-OF-CUSTODY FORM

CLIENT NAME: Lyndhurst Board of Education		SITE ADDRESS: Lighthouse Campus 601 Riverside, Lyndhurst, New Jersey 07071	
FIELD INSPECTOR'S NAME: Michael O'Hanlon		TURNAROUND TIME REQUESTED: 5-7 Days	
MES PROJECT #: 16-03014	SAMPLE DATE: 06/09/2016		

Matrix	SAMPLE ID	SAMPLE LOCATION	TIME COLLECTED	ANALYSIS REQUESTED
DW	LC-01	Kitchen Sink	6:47 AM	LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8

Relinquished by (Print) Michael O'Hanlon	Date: 06/09/16	Time: 159	Received by: (Print) Bernadette	Date: 6/9/16	Time: 2:00
Signature: [Signature]			Signature: [Signature]		
Relinquished by (Print) [Signature]	Date: 6-9-16	Time: 1300	Received by: (Print)	Date:	Time:
Signature: [Signature]			Signature:		

Laboratory Analysis Performed by (Analyst Signature, Laboratory Name & Location): Phocnix Environmental Laboratories

[Signature] TCM 18.45