McCabe Environmental Services, L.L.C.

464 Valley Brook Ave • Lyndhurst NJ, 07071 • Phone: (201) 438-4839 / Fax: (201) 438-1798

LEAD IN DRINKING WATER TESTING REPORT

Conducted for:

Glen Rock Board of Education 620 Harristown Road Glen Rock, New Jersey 07452

Conducted at:

Coleman Elementary School 100 Pinelynn Road Glen Rock, New Jersey 07452

Submitted by:

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

REPORT DATE: March 29, 2018

MES Project No.: 18-03480

Prepared by:

Gary Clare Environmental Scientist

Signed for the Company by:

John H. Chiaviello Vice President

MES Project No.: 18-03480 Date: 03/29/18

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APPENDIX A

Laboratory Certificates of Analysis &
Sample Chain of Custody Forms

McCabe Environmental Services, L.L.C.

MES Project No.: 18-03480 Client: Glen Rock BOE- Coleman Elementary School- Lead in Drinking Water Date: 03/29/18

1.0 INTRODUCTION

McCabe Environmental Services, L.L.C. (McCabe) was retained by Glen Rock Board of Education to conduct lead in drinking water testing at Coleman Elementary School located at 100 Pinelynn Road, Glen Rock, New Jersey 07452.

The project information is as follows:

Client Name: Glen Rock Board of Education

Contact Person: Ms. Sandy Marinos

Coleman Elementary School-Lead in Drinking Water Sampling Project Name:

Project Location: 100 Pinelynn Road

Glen Rock, New Jersey 07452

March 23, 2018 <u>Date(s) of Service</u>:

McCabe Personnel: Gary Clare & Thomas Halter

2.0 **SCOPE OF WORK**

Drinking water testing was performed at Coleman Elementary School located at 100 Pinelynn Road, Glen Rock, New Jersey 07452 on March 23, 2018. 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 after the installation of Elkay WaterSentry VII filters. Samples were collected from only the fountains that had this installation done.

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

The following table presents all sample results in order of sample identification:

Sample ID	Sample Location	Lead Result (ppb)	Exceeds (MCL 15 ppb)	Exceeds (MCL 20 ppb)
C-01	Room K-1	< 0.5	PASS	PASS
C-02	Room K-2	< 0.5	PASS	PASS
C-03	Room 5	1.3	PASS	PASS
C-04	Room 4A	2.5	PASS	PASS
C-05	Room 4	< 0.5	PASS	PASS
C-06	Room 3	< 0.5	PASS	PASS
C-07	Room 2	< 0.5	PASS	PASS
C-08	Room 1	< 0.5	PASS	PASS

5.0 **DISCUSSION AND CONCLUSION**

A total of eight (8) samples were collected from Coleman Elementary School. All samples were 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.

MES Project No.: 18-03480 Client: Glen Rock BOE- Coleman Elementary School- Lead in Drinking Water Date: 03/29/18

APPENDIX A

LABORATORY CERTIFICATES OF ANALYSIS SAMPLE CHAIN OF CUSTODY FORMS



Wednesday, March 28, 2018

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

Project ID: 18-03480

Sample ID#s: CA07734 - CA07741

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,

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







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample Informat	<u>ion</u>	Custody Informat	<u>ion</u>	<u>Date</u>	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		03/23/18	7:05
Location Code:	MCCABE	Received by:	SW	03/23/18	17:02

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

P.O.#: Laboratory Data

SDG ID: GCA07734

Phoenix ID: CA07734

Project ID: 18-03480 Client ID: C-01

RL/

Parameter	Result	PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	< 0.0005 Completed	0.0005	1	mg/L	0.015		03/27/18 03/26/18	RS AG	E200.9-2.2 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): 40 CFR Part 141. 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. 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.

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Phyllis Shiller, Laboratory Director

March 28, 2018







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample Informati	<u>on</u>	Custody Informat	<u>ion</u>	<u>Date</u>	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		03/23/18	7:10
Location Code:	MCCABE	Received by:	SW	03/23/18	17:02

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

P.O.#:

Laboratory Data SDG ID: GCA07734

Phoenix ID: CA07735

Project ID: 18-03480 Client ID: C-02

RL/

Parameter	Result	PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	< 0.0005 Completed	0.0005	1	mg/L	0.015		03/27/18 03/26/18	_	E200.9-2.2 E200.9

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March 28, 2018







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March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample Informat	<u>ion</u>	Custody Informa	<u>Date</u>	<u>Time</u>	
Matrix:	DRINKING WATER	Collected by:		03/23/18	7:15
Location Code:	MCCABE	Received by:	SW	03/23/18	17:02

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

Laboratory Data

SDG ID: GCA07734
Phoenix ID: CA07736

Project ID: 18-03480 Client ID: C-03

RL/

Parameter	Result	PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	0.0013 Completed	0.0005	1	mg/L	0.015		03/27/18 03/26/18	RS AG	E200.9-2.2 E200.9

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Comments:

P.O.#:

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Phyllis Shiller, Laboratory Director

March 28, 2018







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:03/23/187:20Location Code:MCCABEReceived by:SW03/23/1817:02

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

P.O.#:

aboratory Data SDG ID: GCA07734

Phoenix ID: CA07737

Project ID: 18-03480 Client ID: C-04

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Βy Lead 0.0025 0.0005 mg/L 0.015 03/27/18 RS E200.9-2.2 Completed 03/26/18 AG 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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Phyllis Shiller, Laboratory Director

March 28, 2018







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:03/23/187:21Location Code:MCCABEReceived by:SW03/23/1817:02

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

Laboratory Data SI

SDG ID: GCA07734 Phoenix ID: CA07738

Project ID: 18-03480 Client ID: C-05

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Βy Lead < 0.0005 0.0005 mg/L 0.015 03/27/18 RS E200.9-2.2 Completed 03/26/18 AG E200.9 **Total Metal Digestion**

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Phyllis Shiller, Laboratory Director

March 28, 2018







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample Informat	<u>ion</u>	Custody Informat	<u>tion</u>	<u>Date</u>	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		03/23/18	7:22
Location Code:	MCCABE	Received by:	SW	03/23/18	17:02

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

P.O.#:

Laboratory Data SDG ID: GCA07734

Phoenix ID: CA07739

Project ID: 18-03480 Client ID: C-06

RL/

Parameter	Result	PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	< 0.0005 Completed	0.0005	1	mg/L	0.015		03/27/18 03/26/18	_	E200.9-2.2 E200.9

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March 28, 2018







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample InformationCustody InformationDateTimeMatrix:DRINKING WATERCollected by:03/23/187:23Location Code:MCCABEReceived by:SW03/23/1817:02

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

P.O.#:

Laboratory Data SDG ID: GCA07734

Phoenix ID: CA07740

Project ID: 18-03480 Client ID: C-07

RL/

Parameter Result **PQL** DIL Units AL MCL MCLG Date/Time Reference Βy Lead < 0.0005 0.0005 mg/L 0.015 03/27/18 RS E200.9-2.2 Completed 03/26/18 AG E200.9 **Total Metal Digestion**

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March 28, 2018







Analysis Report

March 28, 2018

FOR: Attn: Janet Leone

McCabe Environmental Services, LLC

464 Valley Brook Avenue Lyndhurst, New Jersey 07071

Sample Informat	<u>ion</u>	Custody Informa	<u>tion</u>	<u>Date</u>	<u>Time</u>
Matrix:	DRINKING WATER	Collected by:		03/23/18	7:24
Location Code:	MCCABE	Received by:	SW	03/23/18	17:02

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

P.O.#: Laboratory Data SDG ID: GCA07734

Phoenix ID: CA07741

Project ID: 18-03480 Client ID: C-08

RL/

Parameter	Result	PQL	DIL	Units	AL	MCL	MCLG Date/Time	Ву	Reference
Lead Total Metal Digestion	< 0.0005 Completed	0.0005	1	mg/L	0.015		03/27/18 03/26/18	RS AG	E200.9-2.2 E200.9

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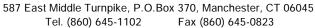
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Phyllis Shiller, Laboratory Director

March 28, 2018



Environmental Laboratories, Inc.





85 - 115 20

QA/QC Report

March 28, 2018

QA/QC Data

SDG I.D.: GCA07734

												70	70	
		Blk	Sample	Dup	Dup	LCS	LCSD	LCS	MS	MSD	MS	Rec	RPD	
Parameter	Blank	RL	Result	Result	RPD	%	%	RPD	%	%	RPD	Limits	Limits	

QA/QC Batch 424027 (mg/L), QC Sample No: CA07734 (CA07734, CA07735, CA07736, CA07737, CA07738, CA07739, CA07740, CA07741)

109

Lead 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.

BRL 0.0005 <0.0005 <0.0005 NC

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

105

March 28, 2018

Wednesday, March 28, 2018

Sample Criteria Exceedances Report GCA07734 - MCCABE

Criteria: None State: NJ

RL Analysis SampNo Acode Phoenix Analyte Criteria Units

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.

^{***} No Data to Display ***



Environmental Laboratories, Inc.

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



Analysis Comments

March 28, 2018 SDG I.D.: GCA07734

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 LYNDHURST, NJ 07071• PHONE: (201)438-4839 Fax: (201)438-1798

ANALYSIS REQUESTED LEAD - 200.8**LEAD** – 200.8 LEAD - 200.8 **LEAD - 200.8 LEAD - 200.8 LEAD - 200.8 LEAD - 200.8 LEAD** - 200.8 **LEAD** – 200.8 LEAD-200.83/23/18 110 Date: Time: Date: TURNAROUND TIME REQUESTED: TIME COLLECTED 7:24 7:05 7:21 7:23 7:10 7:20 100 Dinelynn Road, Glen Rock, NJ 07452 > . . **<** Clarc 12017 Laboratory Analysis Performed by (Analyst Signature, Laboratory Name & Location): Phoenix Environmental Laboratories ST131 AD 07736 011139 01135 PLLIS 25710 SITE ADDRESS: Coleman School Received by: (Print) Received by: (Print) CHAIN-OF-CUSTODY FORM LEAD in DRINKING WATER Signature: Signature: SAMPLE LOCATION SAMPLE DATE: March 23, 2018 Time: Time: 7 3/23/14 بدونا 3/23/18 FIELD INSPECTOR'S NAME: Thomas Halter, Gary Clare CLIENT NAME: Glen Rock Board of Education 620 Harrigtown Road, Glen Rock, NJ 07452 53) 53 Relinquished by (Print) (ary (SAMPLE ID MES PROJECT #: 18-03480 そ ()-() C-0-1 C-05 6-03 C-07 10/ Relinquished by (Print) Signature: Signature: Matrix A O DW DW DW DW M D DW DW A N ρM

NJ Certified WBE

Temp 3.4

CMC ALL

Page 13 of 13