Karl
Environmental
Group

Effective and Economical
Environmental Solutions

Lead in Drinking Water Sampling
Per amendments to N.J.A.C 6A:26 Educational Facilities
Beverly City Board of Education
601 Bentley Road
Beverly, NJ 08010
Karl Environmental Group Project #:21-0828

February 4, 2022

Prepared for:
Brian Savage
Staff Accountant/ Board Secretary
Beverly City Board of Education
601 Bentley Road
Beverly, NJ 08010

Prepared by:
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February 4, 2022

Brian Savage
Staff Accountant/ Board Secretary
Beverly City Board of Education
601 Bentley Rd., Beverly, NJ 08010

Re: Lead in Drinking Water Sampling
Per amendments to N.J.A.C 6A:26 Educational Facilities
Beverly City Board of Education
Karl Environmental Group Project #: 21-0828

Dear Mr. Savage:

Thank you for selecting Karl Environmental Group ("Karl") for this project. This report details the methods and findings of the lead in drinking water services as per New Jersey state regulations (amendments to N.J.A.C 6A:26 Educational Facilities) performed within the Beverly City School (the "Facility"), on January 19, 2022.

1.0 PROJECT BACKGROUND

Karl Environmental was contacted by Brian Savage of the Beverly City Board of Education (the "Client") to perform lead in drinking water sampling to determine the lead content of drinking water from sources throughout the Facility.

The purpose of lead in drinking water sampling is to determine if any sampled drinking water sources exhibit lead levels exceeding the Regulatory Action Level of 15 parts per billion (ppb). Drinking water collection points include any water sources from which a student, staff, or faculty may reasonably drink or from which the water may be used for cooking or beverage preparation, including, but not limited to, water coolers/bubblers, kitchen faucets, Nurse's Office faucets, and Faculty/Staff lounges.

2.0 LEAD IN DRINKING WATER

Lead is a toxic substance that can be harmful to human health. As compared to adults, children are more susceptible to the detrimental health effects of lead, as their nervous systems are not yet fully developed. Exposure to lead can occur in a variety of ways including through food, soil, deteriorating lead-based paint, and drinking water. Lead can leach into drinking water from plumbing materials such as pipes and solder, as well as brass plumbing fixtures. For this investigation, planning, preparation, methodology, sampling, and follow-up actions were conducted according to the technical guidance provided by New Jersey following the adoption of amendments to N.J.A.C. 6A:26: Educational Facilities, requiring the sampling of drinking water for lead in schools.

3.0 DRINKING WATER SAMPLING METHODOLOGY

Karl collected thirty-five (35) first draw drinking water samples from water outlets throughout the Facility and one (1) field blank. At each collection point, Karl Environmental filled a 250 milliliter (mL) wide-mouth high density polyethylene (HDPE) sample collection bottle from the selected water source. Samples were collected after the water in each building had not been used for at least 8 hours, but not more than 48 hours. Samples were preserved using concentrated Nitric Acid (HNO_3). The initial sample at each collection point represents the first draw sample. The first draw sample is representative of the water from the end point of the water source (i.e., the bubbler or tap).

A field blank using lead-free laboratory reagent water was also collected at each Facility during the sampling event to rule out contamination of samples during the collection and transportation process. All samples were recorded under proper chain of custody and couriered to Suburban Testing Labs (Suburban), a New Jersey certified laboratory (NJ Lab ID #PA081) located in Reading, Pennsylvania for analysis by EPA method 200.8, NJ DOE.

During the initial sampling event, Karl Environmental Group collected the following number of samples at the Facility:

Beverly City School

- Thirty-five (35) First Draw Samples
- One (1) Field Blank

4.0 DRINKING WATER ANALYSIS RESULTS

The analytical lead in drinking water results are listed in the table below:

Table 1: Beverly City School First Draw Sampling Results – January 19, 2022

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)	Above Regulatory Action Level?
BCS-BLANK	Blank	< 1.00	No
BCS-CS-RM01	Classroom Sink	1.81	No
BCS-DW-RM01	Bubbler	1.12	No
BCS-CS-RM03	Classroom Sink	1.65	No
BCS-DW-RM03	Bubbler	2.02	No
BCS-CS-RM04	Classroom Sink	1.37	No
BCS-DW-RM04	Bubbler	5.13	No
BCS-CS-RM05	Classroom Sink	2.37	No
BCS-DW-RM05	Bubbler	2.40	No
BCS-CS-RM06	Classroom Sink	4.72	No
BCS-DW-RM06	Bubbler	1.69	No
BCS-CS-RM07	Classroom Sink	1.64	No
BCS-DW-RM07	Bubbler	2.30	No
BCS-CS-RM08	Classroom Sink	1.98	No
BCS-DW-RM08	Bubbler	1.76	No
BCS-FAC-WF-R	Water Fountain	< 1.00	No
BCS-FAC-WF-BF-R	Bottle Filler	**	**
BCS-FAC-WF-L	Water Fountain	< 1.00	No
BCS-FAC-WF-BF-L	Bottle Filler	< 1.00	No
BCS-TL-CS	Teacher’s Lounge Sink	2.52	No
BCS-TL-WC	Teacher’s Lounge Water Cooler	< 1.00	No
BCS-NS-CS	Nurse Sink	2.95	No
BCS-WF-7THGRADE-L	Water Fountain	< 1.00	No
BCS-WF-BF-7THGRADE-L	Bottle Filler	< 1.00	No
BCS-WF-7THGRADE-R	Water Fountain	< 1.00	No
BCS-WF-BF-7THGRADE-R	Bottle Filler	< 1.00	No
BCS-CS-RM21	Classroom Sink	8.58	No
BCS-SPRAYER-RM21	Sink Sprayer	5.63	No
BCS-TL-SPRAYER	Teacher’s Lounge Sprayer	1.92	No
BCS-WF-OFFICE	Water Fountain	< 1.00	No
BCS-WF-BF-OFFICE	Bottle Filler	< 1.00	No
BCS-WF-CAFÉ	Water Fountain	< 1.00	No
BCS-WF-BF-CAFÉ	Bottle Filler	< 1.00	No
BCS-KC-1	Kitchen Sink	< 1.00	No
BCS-KC-2	Kitchen Sink	1.28	No
BCS-KC-3	Kitchen Sink	3.93	No
BCS-KC-SPRAYER	Kitchen Sprayer	1.95	No

🟩 **Could not collect due to outlet not working**

All laboratory analytical results were compared to the Regulatory Action Level of 15 ppb for lead. Analysis of lead in the first draw drinking water samples indicated that at the time of the sampling event, none (0) of the results were above the action level of 15 ppb for lead.

5.0 CONCLUSIONS & RECOMMENDATIONS

Following the lead in drinking water sampling event conducted on January 19, 2022, out of the thirty-five (35) outlets that were sampled, none (0) of the outlets were above the regulatory Action Level of 15 ppb. At the conclusion of the lead in drinking water services, Karl Environmental offers the following recommendations at this time:

- The bottle filler that is attached to the water cooler on the right side of the teacher's lounge entrance (BCS-FAC-WF-BF-R) was not operational at the time of sampling. This outlet needs to be tested before being put into service.

- Continue to monitor lead in drinking water levels as part of a regular sampling and maintenance plan, as per New Jersey State regulations. Amendments will require district-wide sampling every three (3) years.

- In the interim, when drinking water outlets are replaced/added, or the plumbing is disturbed, sampling of the impacted outlets should be completed to determine if lead levels were affected.

- Implement an aerator cleaning maintenance program to prevent the build-up of debris behind the screen which may contribute to elevated lead levels.

- Enter all filter maintenance, aerator maintenance, plumbing repairs/changes and any other pertinant information into the Field Log Book for each Facility.

- Use only cold water for food and beverage preparation. Hot water is more likely to contribute to the corrosion of plumbing materials and thefore contain a greater level of contaminants from the plumbing system.

6.0 LIMITATIONS

This investigation focused on lead in drinking water only. No other heavy metals or additional contaminants were sampled for or analyzed. Lead concentrations can change as water continues to move through the water system. Each sample was a grab sample and represents lead concentrations only at the specific time of collection and may vary based on the water usage in the facility. Interpretation of these results is only valid if the facility is serviced by a municipal water supplier or water utility.

This lead sampling event was in response to the amendments to N.J.A.C. 6A:26, Educational Facilities dated July 13, 2016, which requires testing for lead in the drinking water of public and charter school districts every three (3) years.

7.0 CLOSING

Thank you for using Karl to assist you with this project. Please do not hesitate to call if you have any questions relating to this report or for any other environmental health and safety concerns.

Respectfully submitted,
Karl Environmental Group

Kyle Acker
Environmental Consultant
Email: kacker@karlenv.com
(Tel): 610-856-7700
(Fax): 610-856-5040

Attachment A: Analytical Lab Results

Attachment A:

Analytical Lab Results

Results Report

Order ID: 2A04172

Karl Environmental Group
20 Lauck Road
Mohnton, PA 19540

Project: Beverly City School
601 Bently Avenue
Beverly, New Jersey 08010

Attn: Aja Slater

Regulatory ID:

Sample Number: 2A04172-01
Collector: AS
Site: BCS-Blank
Collect Date: 01/19/2022 8:00 am
Sample ID: Blank
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:45	MKR

Sample Number: 2A04172-02
Collector: AS
Site: BCS-CS-RM01
Collect Date: 01/19/2022 6:50 am
Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.81	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:46	MKR

Sample Number: 2A04172-03
Collector: AS
Site: BCS-DW-RM01
Collect Date: 01/19/2022 6:50 am
Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.12	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:48	MKR

Sample Number: 2A04172-04
Collector: AS
Site: BCS-CS-RM03
Collect Date: 01/19/2022 6:54 am
Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.65	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:43	MKR

Sample Number: 2A04172-05
Collector: AS
Site: BCS-DW-RM03
Collect Date: 01/19/2022 6:54 am
Sample ID:
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.02	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:40	MKR

Sample Number: 2A04172-06 Site: BCS-CS-RM04 Sample ID:
Collector: AS Collect Date: 01/19/2022 6:57 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.37	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:42	MKR

Sample Number: 2A04172-07 Site: BCS-DW-RM04 Sample ID:
Collector: AS Collect Date: 01/19/2022 6:57 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	5.13	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:02	MKR

Sample Number: 2A04172-08 Site: BCS-CS-RM05 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:00 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.37	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:58	MKR

Sample Number: 2A04172-09 Site: BCS-DW-RM05 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:00 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.40	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:59	MKR

Sample Number: 2A04172-10 Site: BCS-CS-RM06 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:03 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	4.72	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:50	MKR

Sample Number: 2A04172-11 Site: BCS-DW-RM06 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:03 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.69	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:51	MKR

Sample Number: 2A04172-12 Site: BCS-CS-RM07 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:06 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.64	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:53	MKR

Sample Number: 2A04172-13 Site: BCS-DW-RM07 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:06 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.30	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:01	MKR

Sample Number: 2A04172-14 Site: BCS-CS-RM08 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:08 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.98	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:02	MKR

Sample Number: 2A04172-15 Site: BCS-DW-RM08 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:08 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.76	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:04	MKR

Sample Number: 2A04172-16 Site: BCS-FAC-WF-R Sample ID:
Collector: AS Collect Date: 01/19/2022 7:13 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:06	MKR

Sample Number: 2A04172-17 Site: BCS-FAC-WF-L Sample ID:
Collector: AS Collect Date: 01/19/2022 7:16 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:05	MKR

Sample Number: 2A04172-18 Site: BCS-FAC-WF-BF-L Sample ID:
Collector: AS Collect Date: 01/19/2022 7:16 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:39	MKR

Sample Number: 2A04172-19 Site: BCS-TL-CS Sample ID:
Collector: AS Collect Date: 01/19/2022 7:20 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.52	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:28	MKR

Sample Number: 2A04172-20 Site: BCS-TL-WC Sample ID:
Collector: AS Collect Date: 01/19/2022 7:20 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:38	MKR

Sample Number: 2A04172-21 Site: BCS-NS-CS Sample ID:
Collector: AS Collect Date: 01/19/2022 7:23 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	2.95	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:36	MKR

Sample Number: 2A04172-22 Site: BCS-WF-7thGrade-L Sample ID:
Collector: AS Collect Date: 01/19/2022 7:30 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:31	MKR

Sample Number: 2A04172-23 Site: BCS-WF-BF-7thGrade-L Sample ID:
Collector: AS Collect Date: 01/19/2022 7:30 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:30	MKR

Sample Number: 2A04172-24 Site: BCS-WF-7thGrade-R Sample ID:
Collector: AS Collect Date: 01/19/2022 7:32 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:20	MKR

Sample Number: 2A04172-25 Site: BCS-WF-BF-7thGrade-R Sample ID:
Collector: AS Collect Date: 01/19/2022 7:32 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:26	MKR

Sample Number: 2A04172-26 Site: BCS-CS-RM21 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:36 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	8.58	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:25	MKR

Sample Number: 2A04172-27 Site: BCS-Sprayer-RM21 Sample ID:
Collector: AS Collect Date: 01/19/2022 7:36 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	5.63	µg/L	EPA 200.8	1.00	1	01/25/22	RPV	01/26/22 11:07	MKR

Sample Number: 2A04172-28 Site: BCS-TL-Sprayer Sample ID:
Collector: AS Collect Date: 01/19/2022 7:40 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.92	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:23	MKR

Sample Number: 2A04172-29 Site: BCS-WF-OFFICE Sample ID:
Collector: AS Collect Date: 01/19/2022 7:44 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:22	MKR

Sample Number: 2A04172-30 Site: BCS-WF-BF-Office Sample ID:
Collector: AS Collect Date: 01/19/2022 7:44 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:07	MKR

Sample Number: 2A04172-31 Site: BCS-WF-Cafe Sample ID:
Collector: AS Collect Date: 01/19/2022 7:47 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:18	MKR

Sample Number: 2A04172-32 Site: BCS-WF-BF-Cafe Sample ID:
Collector: AS Collect Date: 01/19/2022 7:47 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:17	MKR

Sample Number: 2A04172-33 Site: BCS-KC-1 Sample ID: Back Left
Collector: AS Collect Date: 01/19/2022 7:53 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	< 1.00	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:12	MKR

Sample Number: 2A04172-34 Site: BCS-KC-2 Sample ID: Back Right
Collector: AS Collect Date: 01/19/2022 7:53 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.28	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:10	MKR

Sample Number: 2A04172-35 Site: BCS-KC-3 Sample ID: Front
Collector: AS Collect Date: 01/19/2022 7:53 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	3.93	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 14:09	MKR

Sample Number: 2A04172-36 Site: BCS-KC-Sprayer Sample ID:
Collector: AS Collect Date: 01/19/2022 7:53 am Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	1.95	µg/L	EPA 200.8	1.00	1	01/20/22	RPV	01/24/22 13:10	MKR

Sample Receipt Conditions:

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

The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

**pH, Final* for ASTM leachate is performed by method SM 4500-H-B.

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:
Ryan F Knerr
Project Manager II

SUBURBAN TESTING LABS

2A04172
Ryan F Knerr

TAT(Check One): ☒Standard ☐24hr ☐48hr ☐72hr ☐Other____
(Additional charges may apply for rush TAT. If not specified, standard TAT will apply)

Order ID:____________

Client Name: Karl Environmental Group
Address: 20 Lauck Road
Mohnton PA 19540
Phone: 610-856-7700
Email: aslater@karlenv.com
Contact Name: Aja Slater
P.O. Info:____________

Project Name: 21-0828 Beverly City School
Address: 601 Bently Avenue
Beverly New Jersey 08010
Regulatory ID (SDWA/Permit #):____________

Comments:
New Jersey DOE Lead in Water 200.8 - First Draw

Page 1 of ____

STL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	See Codes Below Matrix	Sample Type	Bottle Type	Preservative	Comments / Field Data:
	BCS - Blank	1/19/2022	0800	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	Blank
	BCS-CS-RM01	1/19/2022	0650	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-DW-RM01	1/19/2022	0650	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-CS-RM03	1/19/2022	0654	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-DW-RM03	1/19/2022	0654	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-CS-RM04	1/19/2022	0657	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-DW-RM04	1/19/2022	0657	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-CS-RM05	1/19/2022	0700	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	

	Count	Date / Time	Temp
Relinquished By:		Date: Time:	Temp °C: _____
Received By:		Date: Time:	Temp °C: _____ Acceptable: Y / N
Relinquished By:	8	Date: 1-19-22 Time: 1000	Temp °C: _____ Acceptable: Y / N
Received in Lab By: MN	8	Date: 1/19/22 Time: 1000	Temp °C 14.3C Acceptable: [✓ Y] / N TC

Sample Conditions
Submitted with COC? [✓ Y] / N
Number of containers match number on COC? [✓ Y] / N
All containers in tact? [✓ Y] / N
Tests within holding times? [✓ Y] / N
40 mL VOA vials free of headspace? ~~Y~~ / N

Matrix Key
NPW = Non-Potable Water
Solid = Raw Sludge, Dewatered sludge, soil, etc. (reported as mg/kg)
PW = Potable Water (not for SDWA compliance)
SDWA = Safe Drinking Water Act Potable Sample

Bottle Type Key
P = Plastic
G = Glass
GA = Glass Amber
VOA = 40mL G or GA
PP = Sterile Polypropylene
PS = Sterile Polystyrene
HDPE = High Density Polyethylene
O = Other

Sample Type Key
G = Grab
C = Composite
8HC = 8 Hr. Composite
24HC = 24 Hr. Composite

SDWA Sample Types
D=Distribution
E=Entry Point
R=Raw
C=Check
S=Special
M=Maximum Residence

Preservative Key
A = Ascorbic Acid
C = HCl
H = HNO_3
N = Sodium Thiosulfate
OH = NaOH
S = H_2SO_4
O = Other
NA = None Required

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SUBURBAN
TESTING LABS

2A04172
Ryan F Knerr

TAT(Check One): ☒Standard ☐24hr ☐48hr ☐72hr ☐Other____
(Additional charges may apply for rush TAT. If not specified, standard TAT will apply)

Order ID:____________

Client Name: Karl Environmental Group
Address: 20 Lauck Road
Mohnton PA 19540
Phone: 610-856-7700
Email: aslater@karlenv.com
Contact Name: Aja Slater
P.O. Info:____________

e: 21-0828 Beverly City School
Address: 601 Bently Avenue
Beverly New Jersey 08010
Regulatory ID (SDWA/Permit #):____________

Comments:

New Jersey DOE Lead in Water 200.8 - First Draw

Page 6 of ____

MRw
~~(37) 250mL Pw/HNO3~~
~~(36)~~ MRw

STL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	Matrix	Sample Type	Bottle Type	Preservative	Comments / Field Data:
							See Codes Below				
	BCS-DW-RM05	1/19/2022	0700	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	~~Blank~~
	BCS-CS-RM06	1/19/2022	0703	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-DW-RM06	1/19/2022	0703	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-CS-RM07	1/19/2022	0706	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-DW-RM07	1/19/2022	0706	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-CS-RM08	1/19/2022	0708	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-DW-RM08	1/19/2022	0708	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-FAC-WF-R	1/19/2022	0713	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	

Relinquished By:	Count	Date / Time	Temp °C
Relinquished By:		Date: Time:	Temp °C: ____
Received By:		Date: Time:	Temp °C: ____ Acceptable: Y / N
Relinquished By:	8	Date: 1.19.22 Time: 1000	Temp °C: ____ Acceptable: Y / N
Received in Lab By: MRw	8	Date: 1/19/22 Time: 1000	Temp °C: 14.3° Acceptable: [✓ Y] / N TC

Sample Conditions
Submitted with COC? [✓ Y] / N
Number of containers match number on COC? [✓ Y] / N
All containers in tact? [✓ Y] / N
Tests within holding times? [✓ Y] / N
40 mL VOA vials free of headspace? ~~Y / N~~

Matrix Key
NPW = Non-Potable Water
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SDWA = Safe Drinking Water Act Potable Sample

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GA = Glass Amber
VOA = 40mL G or GA
PP = Sterile Polypropylene
PS = Sterile Polystyrene
HDPE = High Density Polyethylene
O = Other

Sample Type Key
G = Grab
C = Composite
8HC = 8 Hr. Composite
24HC = 24 Hr. Composite

SDWA Sample Types
D=Distribution
E=Entry Point
R=Raw
C=Check
S=Special
M=Maximum Residence

Preservative Key
A = Ascorbic Acid
C = HCl
H = HNO_3
N = Sodium Thiosulfate
OH = NaOH
S = H_2SO_4
O = Other
NA = None Required

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SUBURBAN TESTING LABS

610-375

2A04172
Ryan F Knerr

(Check One): ☒Standard ☐24hr ☐48hr ☐72hr ☐Other____
tional charges may apply for rush TAT. If not specified, standard TAT will apply)

Order ID:

Client Name: Karl Environmental Group
Address: 20 Lauck Road
Mohnton PA 19540
Phone: 610-856-7700
Email: aslater@karlenv.com
Contact Name: Aja Slater
P.O. Info:

Project Name: . .-0828 Beverly City School
Address: 601 Bently Avenue
Beverly New Jersey 08010
Regulatory ID (SDWA/Permit #):

Comments:
New Jersey DOE Lead in Water 200.8 - First Draw

Page 1 of ____

	STL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	Matrix	Sample Type	Bottle Type	Preservative	Comments / Field Data:
								See Codes Below				
*		~~BCS-FAC-WF-BF-R~~	~~1/19/2022~~	~~0713~~	~~AS~~	~~Lead in Water 200.8 NJDOE~~	~~1~~	~~PW~~	~~G~~	~~P~~	~~H~~	~~Blank~~
		BCS-FAC-WF-L	1/19/2022	0716	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		BCS-FAC-WF-BF-L	1/19/2022	0716	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		BCS-~~FAC-CS~~TL-CS	1/19/2022	0720	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		BCS-TL-WC	1/19/2022	0720	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		BCS-NS-CS	1/19/2022	0723	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		BCS-WF-7th Grade-L	1/19/2022	0730	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		BCS-WF-BF-7th Grade-L	1/19/2022	0730	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	

	Count	Date / Time	Temp °C
Relinquished By:		Date: Time:	Temp °C: ____
Received By:		Date: Time:	Temp °C: ____ Acceptable: Y / N
Relinquished By:	7	Date: 1-19-22 Time: 1000	Temp °C: ____ Acceptable: Y / N
Received in Lab By:	7	Date: 1/19/22 Time: 1000	Temp °C: 14.3 Acceptable: [✓ Y] / N

Sample Conditions
Submitted with COC? [✓ Y] / N
Number of containers match number on COC? [✓ Y] / N
All containers in tact? [✓ Y] / N
Tests within holding times? [✓ Y] / N
40 mL VOA vials free of headspace? ~~Y / N~~

Matrix Key
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Sample Type Key
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8HC = 8 Hr. Composite
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SDWA Sample Types
D=Distribution
E=Entry Point
R=Raw
C=Check
S=Special
M=Maximum Residence

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P = Plastic
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GA = Glass Amber
VOA = 40mL G or GA
PP = Sterile Polypropylene
PS = Sterile Polystyrene
HDPE = High Density Polyethylene
O = Other

Preservative Key
A = Ascorbic Acid
C = HCl
H = HNO_3
N = Sodium Thiosulfate
OH = NaOH
S = H_2SO_4
O = Other
NA = None Required

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* was not working

SUBURBAN TESTING LABS

2A04172
Ryan F Knerr

TAT(Check One): ☒Standard ☐24hr ☐48hr ☐72hr ☐Other____
(Additional charges may apply for rush TAT. If not specified, standard TAT will apply)

Order ID:____________

Client Name: Karl Environmental Group
Address: 20 Lauck Road
Mohnton PA 19540
Phone: 610-856-7700
Email: aslater@karlenv.com
Contact Name: Aja Slater
P.O. Info:____________

ne: 21-0828 Beverly City School
Address: 601 Bently Avenue
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Regulatory ID (SDWA/Permit #): ____________

Comments:
New Jersey DOE Lead in Water 200.8 - First Draw

~~Page 2 of~~ ____

STL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	See Codes Below Matrix	Sample Type	Bottle Type	Preservative	Comments / Field Data:
	BCS-WF-7th Grade-R	1/19/2022	0732	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-WF-BF-7th Grade-R	1/19/2022	0732	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-CS-RM21	1/19/2022	0736	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-Sprayer-RM21	1/19/2022	0736	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-TL-Sprayer	1/19/2022	0740	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-WF-Office	1/19/2022	0744	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-WF-BF-Office	1/19/2022	0744	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-WF-Cafe	1/19/2022	0747	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	

	Count	Date / Time	Temp
Relinquished By:		Date: Time:	Temp °C: ____
Received By:		Date: Time:	Temp °C: ____ Acceptable: Y / N
Relinquished By:	8	Date: 1-19-22 Time: 1000	Temp °C: ____ Acceptable: Y / N
Received in Lab By: MRW	8	Date: 1/19/22 Time: 1000	Temp °C: 14.3C Acceptable: [✓ Y] / N

Sample Conditions
Submitted with COC? [✓ Y] / N
Number of containers match number on COC? [✓ Y] / N
All containers in tact? [✓ Y] / N
Tests within holding times? [✓ Y] / N
40 mL VOA vials free of headspace? ~~Y / N~~

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D=Distribution
E=Entry Point
R=Raw
C=Check
S=Special
M=Maximum Residence

Preservative Key
A = Ascorbic Acid
C = HCl
H = HNO_3
N = Sodium Thiosulfate
OH = NaOH
S = H_2SO_4
O = Other
NA = None Required

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SUBURBAN TESTING LABS

2A04172
Ryan F Knerr

TAT(Check One): ☒Standard ☐24hr ☐48hr ☐72hr ☐Other____
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Regulatory ID (SDWA/Permit #):____________

Comments:

New Jersey DOE Lead in Water 200.8 - First Draw

~~Page 3 of~~ ____

STL Sample Number	(36) 250mL P w/HNO_3. PH<2. 1/19/22 MW Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	See Codes Below				Comments / Field Data:
							Matrix	Sample Type	Bottle Type	Preservative	
	BCS-WF-BF-Cafe	1/19/2022	0747	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
	BCS-KC-1	1/19/2022	0753	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	Back Left
	BCS-KC-2	1/19/2022	↓	AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	Back Right
	BCS-KC-3	1/19/2022		AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	Front
	BCS-KC-Sprayer	1/19/2022		AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		1/19/2022		AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		1/19/2022		AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	
		1/19/2022		AS	Lead in Water 200.8 NJDOE	1	PW	G	P	H	

	Count	Date / Time	Temp °C
Relinquished By:		Date: Time:	Temp °C: ____
Received By:		Date: Time:	Temp °C: ____ Acceptable: Y / N
Relinquished By:	5	Date: 1-19-22 Time: 1000	Temp °C: ____ Acceptable: Y / N
Received in Lab By: MW	5	Date: 1/19/22 Time: 1000	Temp °C: 19.3 Acceptable: [✓ Y] / N

Sample Conditions
Submitted with COC? [✓ Y] / N
Number of containers match number on COC? [✓ Y] / N
All containers in tact? [✓ Y] / N
Tests within holding times? [✓ Y] / N
40 mL VOA vials free of headspace? ~~Y / N~~

Matrix Key
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8HC = 8 Hr. Composite
24HC = 24 Hr. Composite

SDWA Sample Types
D=Distribution
E=Entry Point
R=Raw
C=Check
S=Special
M=Maximum Residence

Preservative Key
A = Ascorbic Acid
C = HCl
H = HNO_3
N = Sodium Thiosulfate
OH = NaOH
S = H_2SO_4
O = Other
NA = None Required

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