



Dear Oakland Board of Education,

Due to recent amendments to N.J.A.C. 6A:26 Educational Facilities, New Jersey schools are required to retest potable water outlets during the July 2021- June 2022 school year, and every three (3) years thereafter. The District conducted water sampling on July 13, 2021. Following the receipt of results, it was determined that all existing outlets available for consumption, were below the regulatory action level of 15 ppb.

The District took a step further and tested areas where bottle filling stations are planning to be installed, to determine potential water quality at these locations. Three (3) points were tested at the Dogwood Hill Elementary, three (3) at Manito Elementary, three (3) at Heights Elementary, and four (4) at the Valley Middle School. There are no outlets available for use at any of these locations, currently. Analytical results indicated levels of lead above 15 ppb at these locations. The district will be taking remedial measures during the installation of these outlets, as well as testing them once they are installed, prior to being put into service. The bottle fillers, when installed, will not be put into service unless they test below 15 ppb.

Sincerely,

Karl Environmental Group

A handwritten signature in black ink, appearing to read 'Jake Edwards', is written over a light blue horizontal line.

Jake Edwards
Industrial Hygienist



*Effective and Economical
Environmental Solutions*

**Comprehensive Lead in Drinking Water Services
Per amendments to N.J.A.C 6A:26 Educational Facilities
Oakland Public Schools
315 Ramapo Valley Road
Oakland, NJ 07436**

Karl Environmental Group Project #: 21-0680

July 26, 2021

Prepared for:
Mr. Bob Jacod
Oakland Public Schools
315 Ramapo Valley Road
Oakland, NJ 07436

Prepared by:
Karl Environmental Group
20 Lauck Road
Mohnton, PA 19540
Tel: (800) 527-5581
Fax: (610) 856-5040



20 Lauck Road
Mohnton, PA 19540
Tel: (800) 527-5581
Fax: (610) 856-5040
Web: www.karlenv.com

July 26, 2021

Mr. Bob Jacod
Oakland Public Schools
315 Ramapo Valley Road
Oakland, NJ 07436

**Re: Comprehensive Lead in Drinking Water Services per N.J.A.C 6A:26
Oakland Public Schools
315 Ramapo Valley Road, Oakland, NJ 07436
Karl Environmental Group Project #: 21-0680**

Dear Mr. Jacod,

Thank you for selecting Karl Environmental Group ("Karl") for this project. This report details the methods and findings of the comprehensive lead in drinking water services as per New Jersey state regulations (amendments to N.J.A.C 6A:26 Educational Facilities) performed at the Dogwood Hill Elementary School, Heights Elementary School, Manito Elementary School and Valley Middle School (the "Facilities"), on July 13, 2021.

1.0 PROJECT BACKGROUND

Karl Environmental was contacted by the Oakland Public Schools (the "Client") to perform lead in drinking water sampling to determine the lead content of drinking water from sources throughout the Facilities. 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 included 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 kitchen faucets and sinks in 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 Environmental collected drinking water samples from water outlets throughout each Facility. 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 (HNO₃). 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 on July 13, 2021, Karl Environmental collected the following number of samples at each Facility:

Dogwood Hill Elementary School

- One (1) field blank sample
- Two (2) first-draw samples

Heights Elementary School

- One (1) field blank sample
- Two (2) first-draw samples

Manito Elementary School

- One (1) field blank sample
- Two (2) first-draw samples

Valley Middle School

- One (1) field blank sample
- Eight (8) first-draw samples

4.0 DRINKING WATER ANALYSIS RESULTS

The analytical lead in drinking water results for each first draw samples are listed in Tables 1-4, below:

Table 1: Dogwood Hill School – July 13, 2021

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)	Above Regulatory Action Level?
OD-BLANK	N/A	<1.00	No
OD-FP-1FL-KITCHEN	Sink	11.7	No
OD-TL-2FL-FACULTY	Sink	2.71	No

Table 2: Heights Elementary School – July 13, 2021

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)	Above Regulatory Action Level?
OH-BLANK	N/A	<1.00	No
OH-FP-KITCHEN	Sink	6.47	No
OH-TL-FACULTY1	Sink	7.31	No

Table 3: Manito Elementary School – July 13, 2021

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)	Above Regulatory Action Level?
OM-BLANK	N/A	<1.00	No
OM-TL-1FL-FACULTY	Sink	1.26	No
OM-FP-1FL-KITCHEN	Sink	10.5	No

Table 4: Valley Middle School – July 13, 2021

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)	Above Regulatory Action Level?
OV-BLANK	N/A	<1.00	No
OV-FP-1FL-KITCHEN	Sink	3.32	No
OV-TL-FACULTY	Sink	2.86	No
OV-FP-1FL-HOMEED4	Sink	4.86	No
OV-FP-1FL-HOMEED3	Sink	9.69	No
OV-FP-1FL-HOMEED2	Sink	3.29	No
OV-FP-1FL-HOMEED1	Sink	2.12	No
OV-TL-2FL-FACULTY	Sink	4.44	No
OV-TL-2FL-BOARDSTAFF	Sink	9.91	No

All laboratory analytical results were initially compared to the NJ Department of Education 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 of the potable outlets exceeded concentrations above the regulatory action level of 15 ppb. All analytical lab results are included in Attachment A.

5.0 POTENTIAL BOTTLE FILLING STATIONS

The Client requested to test locations on the plumbing line at each Facility, where potential bottle filling stations are to be installed. Currently these locations are not accessible to students and staff and therefore are not required to be sampled as per N.J.A.C 6A:26 Educational Facilities. The results are summarized in Tables 5-8, below:

Table 5: Dogwood Hill School

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)
OD-DW-GYM1	Line	35.3
OD-DW-1stFRONTHALL	Line	25.2
OD-DW-2FL-HALL	Line	7.99

Table 6: Heights Elementary School

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)
OH-DW-1FL-HALL-KG	Line	117
OH-DW-1FL-GYM Hall	Line	62.7
OH-DW-1FL-Hall5GD	Line	25.8

Table 7: Manito Elementary School

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)
OM-DW-1FL-HALL	Line	16.2
OM-DW-1FL-GYM	Line	110
OM-DW-2FL-HALL	Line	55.0

Table 8: Valley Middle School

Sample I.D.	Type of Collection Point	Lead Concentration (ppb)
OV-DW-CAFE HALL	Line	25.0
OV-DW-CAFE	Line	31.1
OV-DW-1FL-GYM Hall1	Line	46.4
OV-WC-2FL-UPPER30sHall	Line	66.5

The district will be taking remedial measures during the installation of these outlets, as well as testing them once they are installed, prior to being put into service. The bottle fillers, when installed, will not be put into service unless they test below 15 ppb.

6.0 CONCLUSIONS & RECOMMENDATIONS

Following the lead in drinking water sampling event conducted on July 13, 2021 all potable outlets tested were below the regulatory Action Level of 15 ppb. At the conclusion of the comprehensive lead in drinking water services, Karl Environmental Group offers the following recommendations at this time:

- 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 pertinent 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 therefore contain a greater level of contaminants from the plumbing system.

7.0 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.

8.0 CLOSING

Thank you for using Karl Environmental Group 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



Jake Edwards
Industrial Hygienist
610-856-7700 (Phone)
610-856-5040 (Fax)
jedwards@karlenv.com
Attachment A: Analytical Lab Results

Attachment A:
Analytical Lab Results



Results Report

Order ID: 1G04185

Karl Environmental Group
20 Lauck Road
Mohnton, PA 19540

Project: 21-0680C Oakland Public Schools

Attn: Jake Edwards

Regulatory ID:

Sample Number: 1G04185-01	Site: OD-BLANK	Sample ID: Dogwood Hill Elementary School
Collector: JE	Collect Date: 07/13/2021 6:21 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	< 1.00	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:03	MKR
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Sample Number: 1G04185-02	Site: OD-FP-1FL-KITCHEN	Sample ID: Dogwood Hill Elementary School
Collector: JE	Collect Date: 07/13/2021 6:22 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	11.7	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:05	MKR
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Sample Number: 1G04185-03	Site: OD-TL-2FL-FACULTY	Sample ID: Dogwood Hill Elementary School
Collector: JE	Collect Date: 07/13/2021 6:31 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	2.71	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:07	MKR
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Sample Number: 1G04185-04	Site: OD-DW-GYM1	Sample ID: Dogwood Hill Elementary School
Collector: JE	Collect Date: 07/13/2021 6:25 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	35.3	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:10	MKR
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Sample Number: 1G04185-05	Site: OD-DW-1stFRONTHALL	Sample ID: Dogwood Hill Elementary School
Collector: JE	Collect Date: 07/13/2021 6:28 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	25.2	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:12	MKR
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Report Generated On: 07/19/2021 1:30 pm
STL_Results Revision #1.9

1G04185
Effective: 04/16/2020





SUBURBAN TESTING LABS

Sample Number: 1G04185-06	Site: OD-DW-2FL-HALL	Sample ID: Dogwood Hill Elementary School
Collector: JE	Collect Date: 07/13/2021 6:30 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	7.99	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:19	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.

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Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Ryan F Knerr
Project Manager II

Report Generated On: 07/19/2021 1:30 pm 1G04185
STL_Results Revision #1.9 Effective: 04/16/2020





SUBURBAN
TESTING LABS



1G04185
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

Contact Name: Jake Edwards

Phone: 610-856-7700

Fax: 610-856-5040

Email: jedwards@karlenv.com

ne: 21-0680C Oakland Public Schools

Address: Dogwood Hill Elementary School

25 Dogwood Drive, Oakland, NJ 07436

Payment / P.O. Info: _____

Comments:

NJ DOE Lead in Drinking Water Samples - PG 1

(6) 250 mL HNO₃

*added 15 drops HNO₃ pH 12
pf 7-13-21 (SIF0339)

SWTL Sample Number	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	
* 1	OD-BLANK	7/13/21	621	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	Blank
* 2	OD-FP-1FL-KITCHEN	7/13/21	622	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 3	OD-TL-2FL-FACULTY	7/13/21	631	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 4	OD-DW-Gym 1		625								
* 5	OD-DW-1 st FL-FRONT HALL		628								
* 6	OD-DW-2FL-Hall		630								

Relinquished By:	Date: <u>7/13/21</u> Time: <u>1125</u>		Sample Conditions Submitted with COC? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Number of containers match number on COC? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N All containers in tact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tests within holding times <input checked="" type="checkbox"/> Y <input type="checkbox"/> N 40 mL VOA vials free of headspace? <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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 Sample Type Key G = Grab 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	Bottle Type Key P = Plastic G = Glass O = Other Preservative Key N = Sodium Thiosulfate A = Ascorbic Acid H = HNO ₃ C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required	Reporting Options <input type="checkbox"/> SDWA Reporting PWSID: _____ <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Other _____ <input type="checkbox"/> Return a copy of this form with Report
Received By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N				
Relinquished By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N				
Received in Lab By:	Date: <u>7/13/21</u> Time: <u>1125</u>	Temp °C: <u>14.6 on ice</u> Acceptable: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				

Signing this form indicates your agreement with SWTL's Standard Terms and Conditions unless otherwise specified in writing. SLF059 Rev. 1.4 Effective November 12, 2014
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Results Report

Order ID: 1G04181

Karl Environmental Group
20 Lauck Road
Mohnton, PA 19540

Project: 21-0680D Oakland Public Schools

Attn: Jake Edwards

Regulatory ID:

Sample Number: 1G04181-01
Collector: JE

Site: OH-BLANK
Collect Date: 07/13/2021 7:36 am

Sample ID: Heights Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead < 1.00 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:45 MKR

Sample Number: 1G04181-02
Collector: JE

Site: OH-FP-KITCHEN
Collect Date: 07/13/2021 7:43 am

Sample ID: Heights Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 6.47 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:51 MKR

Sample Number: 1G04181-03
Collector: JE

Site: OH-TL-FACULTY1
Collect Date: 07/13/2021 7:48 am

Sample ID: Heights Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 7.31 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:53 MKR

Sample Number: 1G04181-04
Collector: JE

Site: OH-DW-1FL-HALL-KG
Collect Date: 07/13/2021 7:37 am

Sample ID: Heights Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 117 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:55 MKR

Sample Number: 1G04181-05
Collector: JE

Site: OH-DW-1FL-GYM Hall
Collect Date: 07/13/2021 7:47 am

Sample ID: Heights Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 62.7 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:58 MKR

Report Generated On: 07/19/2021 1:31 pm
STL_Results Revision #1.9

1G04181
Effective: 04/16/2020





SUBURBAN TESTING LABS

Sample Number: 1G04181-06	Site: OH-DW-1FL-Hall5GD	Sample ID: Heights Elementary School
Collector: JE	Collect Date: 07/13/2021 7:50 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	25.8	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 19:00	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.

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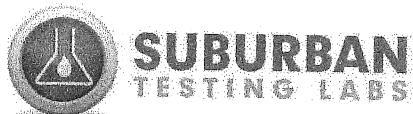
Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Ryan F Knerr
Project Manager II

Report Generated On: 07/19/2021 1:31 pm 1G04181
STL_Results Revision #1.9 Effective: 04/16/2020





1G04181
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

Fax: 610-856-5040

Contact Name: Jake Edwards

Email: jedwards@karlenv.com

me: 21-0680D Oakland Public Schools

Heights Elementary School

114 Seminole Ave, Oakland, NJ 07436

Payment / P.O. Info: _____

Comments:

NJ DOE Lead in Drinking Water Samples - PG 1

SWTL Sample Number	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	
	OH-BLANK	7/13/21	736	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	Blank
	OH-FP-KITCHEN	7/13/21	743	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
	OH-TL-FACULTY1	7/13/21	748	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
	OH-DW-1FL-Hall-KG	↓	737	↓	↓	↓	↓	↓	↓	↓	
	OH-DW-1FL-Gym Hall	↓	747	↓	↓	↓	↓	↓	↓	↓	
	OH-DW-1FL-Hall 5GD	↓	750	↓	↓	↓	↓	↓	↓	↓	
	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
X	(6) 250mL HNO3 P X: 15 drops HNO3; pH < 2 pf 7-13-21 (SIF0339)										

Relinquished By:	Date: <u>7/13/21</u>		Sample Conditions	Matrix Key	Bottle Type Key	Reporting Options
Received By:	Time: <u>1125</u>		Submitted with COC? <u>Y</u> / N	NPW = Non-Potable Water	P = Plastic	<input type="checkbox"/> SDWA Reporting
	Date: _____	Temp °C: _____	Number of containers match number on COC? <u>Y</u> / N	Solid = Raw Sludge, Dewatered sludge, soil, etc (reported as mg/kg)	G = Glass	PWSID: _____
	Time: _____	Acceptable: Y / N	All containers in tact? <u>Y</u> / N	PW = Potable Water (not for SDWA compliance)	O = Other	<input type="checkbox"/> Fax
Relinquished By: _____	Date: _____	Temp °C: _____	Tests within holding times <u>Y</u> / N	SDWA = Safe Drinking Water Act Potable Sample	Preservative Key	<input checked="" type="checkbox"/> Email
Received in Lab By:	Date: <u>7/13/21</u>	Temp °C: <u>14.6</u>	40 mL VOA vials free of headspace? <u>Y</u> / N	Sample Type Key	N = Sodium Thiosulfate	<input type="checkbox"/> Other _____
	Time: <u>1125</u>	Acceptable: <u>Y</u> / N		8HC = 8 Hr. Composite	A = Ascorbic Acid	<input type="checkbox"/> Return a copy of this form with Report
				24HC = 24 Hr. Composite	H = HNO3	
					C = HCl	
					R = Raw	
					C = Check	
					S = Special	
					M = Maximum Residence	
					OH = NaOH	
					O = Other	
					NA = None Required	

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Results Report

Order ID: 1G04176

Karl Environmental Group
20 Lauck Road
Mohnton, PA 19540

Project: 21-0680B Oakland Public Schools

Attn: Jake Edwards

Regulatory ID:

Sample Number: 1G04176-01
Collector: JE

Site: OM-BLANK
Collect Date: 07/13/2021 7:01 am

Sample ID: Manito Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead < 1.00 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 19:34 MKR

Sample Number: 1G04176-02
Collector: JE

Site: OM-TL-1FL-FACULTY
Collect Date: 07/13/2021 7:02 am

Sample ID: Manito Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 1.26 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 19:37 MKR

Sample Number: 1G04176-03
Collector: JE

Site: OM-FP-1FL-KITCHEN
Collect Date: 07/13/2021 7:08 am

Sample ID: Manito Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 10.5 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 19:39 MKR

Sample Number: 1G04176-04
Collector: JE

Site: OM-DW-1FL-HALL
Collect Date: 07/13/2021 7:04 am

Sample ID: Manito Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 16.2 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:33 MKR

Sample Number: 1G04176-05
Collector: JE

Site: OM-DW-1FL-GYM
Collect Date: 07/13/2021 7:10 am

Sample ID: Manito Elementary School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 110 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 18:41 MKR

Report Generated On: 07/19/2021 1:31 pm
STL_Results Revision #1.9

1G04176
Effective: 04/16/2020



SUBURBAN TESTING LABS

Sample Number: 1G04176-06	Site: OM-DW-2FL-HALL	Sample ID: Manito Elementary School
Collector: JE	Collect Date: 07/13/2021 7:13 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	55.0	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:43	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.

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Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Ryan F Knerr
Project Manager II

Report Generated On: 07/19/2021 1:31 pm 1G04176
STL_Results Revision #1.9 Effective: 04/16/2020





1G04176
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

Contact Name: Jake Edwards

Phone: 610-856-7700

Fax: 610-856-5040

Email: jedwards@karlenv.com

Address: 21-0680B Oakland Public Schools

Manito Elementary School

111 Manito Avenue, Oakland, NJ 07436

Payment / P.O. Info: _____

Comments:

NJ DOE Lead in Drinking Water Samples - PG 1

SWTL Sample Number	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	
	OM-BLANK	7/13/21	701	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	BLANK
	OM-TL-1FL-FACULTY	7/13/21	702	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
	OM-FP-1FL-KITCHEN	7/13/21	708	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
	OM-DW-1FL-Hall	↓	704	↓	↓	↓	↓	↓	↓	↓	
	OM-DW-1FL-Gym	↓	710	↓	↓	↓	↓	↓	↓	↓	
	OM-DW-ZPL-Hall	↓	713	↓	↓	↓	↓	↓	↓	↓	
X	(6) 250mL HNO ₃ P	↓	↓	↓	↓	↓	↓	↓	↓	↓	

X = 15 drops HNO₃ added; Ph < 2 7-13-21 (SLF0339)

Relinquished By: <u>[Signature]</u>	Date: <u>7/13/21</u> Time: <u>1125</u>	Temp °C: _____ Acceptable: Y / N	Sample Conditions Submitted with COC? <u>Y</u> / N Number of containers match number on COC? <u>8</u> / N All containers in tact? <u>Y</u> / N Tests within holding times <u>Y</u> / N 40 mL VOA vials free of headspace? <u>Y</u> / 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 Sample Type Key G = Grab 8HC = 8 Hr. Composite 24HC = 24 Hr. Composite	Bottle Type Key P = Plastic G = Glass O = Other Preservative Key N = Sodium Thiosulfate A = Ascorbic Acid H = HNO ₃ C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required	Reporting Options <input type="checkbox"/> SDWA Reporting PWSID: _____ <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Other _____ <input type="checkbox"/> Return a copy of this form with Report
Received By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N				
Relinquished By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N				
Received in Lab By: <u>[Signature]</u>	Date: <u>7/13/21</u> Time: <u>1125</u>	Temp °C: <u>14.6</u> Acceptable: <u>Y</u> / N				

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Results Report

Order ID: 1G04187

Karl Environmental Group
20 Lauck Road
Mohnton, PA 19540

Project: 21-0680A Oakland Public Schools

Attn: Jake Edwards

Regulatory ID:

Sample Number: 1G04187-01
Collector: JE

Site: OV-BLANK
Collect Date: 07/13/2021 5:01 am

Sample ID: Valley Middle School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead < 1.00 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 19:21 MKR

Sample Number: 1G04187-02
Collector: JE

Site: OV-FP-1FL-KITCHEN
Collect Date: 07/13/2021 5:14 am

Sample ID: Valley Middle School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 3.23 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 17:40 MKR

Sample Number: 1G04187-03
Collector: JE

Site: OV-TL-1FL-FACULTY
Collect Date: 07/13/2021 5:06 am

Sample ID: Valley Middle School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 2.86 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 17:50 MKR

Sample Number: 1G04187-04
Collector: JE

Site: OV-FP-1FL-HOME4
Collect Date: 07/13/2021 5:25 am

Sample ID: Valley Middle School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 4.86 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 17:53 MKR

Sample Number: 1G04187-05
Collector: JE

Site: OV-FP-1FL-HOME3
Collect Date: 07/13/2021 5:23 am

Sample ID: Valley Middle School
Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead 9.69 µg/L EPA 200.8 1.00 1 07/14/21 MKR 07/15/21 17:55 MKR

Report Generated On: 07/19/2021 1:30 pm
STL_Results Revision #1.9

1G04187
Effective: 04/16/2020





SUBURBAN TESTING LABS

Sample Number: 1G04187-06	Site: OV-FP-1FL-HOMEEC2	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:21 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	3.29	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 17:57	MKR
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Sample Number: 1G04187-07	Site: OV-FP-1FL-HOMEEC1	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:20 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	2.12	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 17:59	MKR
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Sample Number: 1G04187-08	Site: OV-TL-2FL-FACULTY	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:31 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	4.44	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:02	MKR
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Sample Number: 1G04187-09	Site: OV-TL-2FL-BOARDSTAFF	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:37 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	9.91	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:04	MKR
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Sample Number: 1G04187-10	Site: OV-DW-CAFE HALL	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:08 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	25.0	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:06	MKR
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Sample Number: 1G04187-11	Site: OV-DW-CAFE	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:12 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	31.1	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:09	MKR
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Sample Number: 1G04187-12	Site: OV-DW-1FL-GYM Hall1	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:18 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
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Metals

Lead	46.4	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:18	MKR
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Report Generated On: 07/19/2021 1:30 pm 1G04187
STL_Results Revision #1.9 Effective: 04/16/2020





SUBURBAN TESTING LABS

Sample Number: 1G04187-13	Site: OV-WC-2FL-UPPER30sHall	Sample ID: Valley Middle School
Collector: JE	Collect Date: 07/13/2021 5:33 am	Sample Type: Grab

Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	By	Analysis Date	By
Metals									
Lead	66.5	µg/L	EPA 200.8	1.00	1	07/14/21	MKR	07/15/21 18:20	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.

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Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Ryan F Knerr
Project Manager II

Report Generated On: 07/19/2021 1:30 pm 1G04187
STL_Results Revision #1.9 Effective: 04/16/2020





SUBURBAN
TESTING LABS



1G04187
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

Contact Name: Jake Edwards

Fax: 610-856-5040

Email: jedwards@karlenv.com

Name: 21-06804 Oakland Public Schools

SS: Valley Middle School

71 Oak Street, Oakland, NJ 07436

Payment / P.O. Info: _____

Comments:

NJ DOE Lead in Drinking Water Samples - PG 1

(8) 250mL HNO₃

* added 15 drops HNO₃ pH 4.2
pf 7.13.21 (SLF0339)

SWTL Sample Number	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	
* 1	OV-BLANK	7/13/21	501	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	BLANK
* 2	OV-FP-1FL-KITCHEN	7/13/21	514	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 3	OV-TL-1FL-FACULTY	7/13/21	506	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 4	OV-FP-1FL-HOME EC4	7/13/21	525	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 5	OV-FP-1FL-HOME EC3	7/13/21	523	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 6	OV-FP-1FL-HOME EC2	7/13/21	521	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 7	OV-FP-1FL-HOME EC1	7/13/21	520	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
* 8	OV-TL-2FL-FACULTY	7/13/21	531	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	

Relinquished By:	Date: <u>7/13/21</u> Time: <u>1125</u>		Sample Conditions Submitted with COC? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Number of containers match number on COC? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N All containers in tact? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Tests within holding times <input checked="" type="checkbox"/> Y <input type="checkbox"/> N 40 mL VOA vials free of headspace? <input checked="" type="checkbox"/> Y <input type="checkbox"/> 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 Sample Type Key G = Grab 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	Bottle Type Key P = Plastic G = Glass O = Other Preservative Key N = Sodium Thiosulfate A = Ascorbic Acid H = HNO ₃ C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required	Reporting Options <input type="checkbox"/> SDWA Reporting PWSID: _____ <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Other _____ <input type="checkbox"/> Return a copy of this form with Report
Received By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N				
Relinquished By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N				
Received in Lab By:	Date: <u>7/13/21</u> Time: <u>1125</u>	Temp °C: <u>14.6 on 1C</u> Acceptable: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				

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SUBURBAN
TESTING LABS



1G04187
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

Contact Name: Jake Edwards

Fax: 610-856-5040

Email: jedwards@karlenv.com

21-0680A

me: 20-07008 Oakland Public Schools

Valley Middle School

71 Oak Street, Oakland, NJ 07436

Payment / P.O. Info: _____

Comments:

*** took time from bottle as 7-13-21*
NJ DOE Lead in Drinking Water Samples- PG 2

(5) (13) 250 mL HNO₃ pf

** added 15 drops HNO₃ pH 4.2 pf 7-13-21 (SIF0339)*

SWTL Sample Number	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	
*	OV-TL-2FL-BOARDSTAFF	7/13/21	*5:37	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
*	OV-BW-Cafe Hall	7/13/21	508	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
*	OV-BW-Cafe	7/13/21	512	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
*	OV-BW-1FL-Gym Hall	7/13/21	518	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
*	OV-WC-2FL-Upper 3rd shell	7/13/21	533	JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
		7/13/21		JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
		7/13/21		JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	
		7/13/21		JE	Lead, 200.8, NJ DOE	1	PW	G	P	H	

Relinquished By:	Date: <u>7/13/21</u> Time: <u>1125</u>		Sample Conditions	Matrix Key	Bottle Type Key	Reporting Options
Received By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N	Submitted with COC? <input checked="" type="checkbox"/> N	NPW = Non-Potable Water Solid = Raw Sludge, Dewatered sludge, soil, etc. (reported as mg/kg)	P = Plastic G = Glass O = Other	<input type="checkbox"/> SDWA Reporting PWSID: _____
Relinquished By:	Date: _____ Time: _____	Temp °C: _____ Acceptable: Y / N	Number of containers match number on COC? <input checked="" type="checkbox"/> N	PW = Potable Water (not for SDWA compliance) SDWA = Safe Drinking Water Act Potable Sample	Preservative Key N = Sodium Thiosulfate A = Ascorbic Acid H = HNO ₃ C = HCl S = H ₂ SO ₄ OH = NaOH O = Other NA = None Required	<input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Other _____
Received in Lab By:	Date: <u>7/13/21</u> Time: <u>1125</u>	Temp °C: <u>14.6</u> Acceptable: <u>Y</u> N	All containers in tact? <input checked="" type="checkbox"/> N	Sample Type Key G = Grab 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	<input type="checkbox"/> Return a copy of this form with Report
			Tests within holding times <input checked="" type="checkbox"/> N			
			40 mL VOA vials free of headspace? <input checked="" type="checkbox"/> Y / N			

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