



LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR: Kenneth Stromsland
Board of Education Township of Edison
312 Pierson Avenue
Edison, NJ 07642

SITE INVESTIGATED: FDR
838 New Dover Road
Edison, NJ 08820

ASSESSMENT BY: Kyle Brown
Omega Environmental Services, Inc.
280 Huyler Street
South Hackensack, NJ 07606

**INVESTIGATION
CONDUCTED:** 8/07/16

DATE OF REPORT: 8/24/16

(Omega Project # 16-27002S)

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EXECUTIVE SUMMARY:

The Board of Education Township of Edison requested lead in water testing of potable water outlets at FDR, 838 New Dover Road, Edison, NJ 08820.

Previous Testing

No information related to previous testing was available.

Recent Testing (8/07/16)

In order to assess the building water outlets a full testing of all potable outlets was performed on August 07, 2016.

Reportedly the outlets were not flushed or used on the day of testing.

First draw and flush samples (30 second) were collected of 4 water fountains and sinks.

All results were below the Lead and Copper action level of 15 ppb.

See Section 3 Discussion of Results

1 RESULTS TABLE:

Outlet #	Sample #	Location	1st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
27	01	Water Fountain near Clinic	FD	1.3	15
27	02	Water Fountain near Clinic	FL	<1.0	15
26	03	Nurse Office Sink	FD	7.0	15
26	04	Nurse Office Sink	FL	<1.0	15
28	05	Faculty Sink (R)	FD	6.6	15
28	06	Faculty Sink (R)	FL	<1.0	15
-	07	Water Fountain in Trailer	FD	<1.0	15
-	08	Water Fountain in Trailer	FL	<1.0	15

⁽¹⁾ EPA Lead in Copper Rule (1991) Action Level for water suppliers (municipalities and private wells) and March 2016 Newark Public Schools Lead Water Testing Sampling Plan.

FD – First Draw Sample

FL – Flush Sample (30 sec)

NA – Not Analyzed

2 SAMPLING METHODOLOGY:

First Draw Samples - Without allowing any water to spill until sample collection, samples were collected with a relatively slow flow rate in 250 mL bottles prepared with Nitric Acid (HNO₃) as a preservative.

Flush Samples – After collection of first draw samples the water was allowed to flow at a relatively slow rate for thirty second to flush the fixture and close piping. The flush samples are intended to test the plumbing further upstream from the fixture (behind walls).

The samples were packaged in a cooler and shipped to Pace Analytical, Melville, NY for total lead in potable water analysis (method E200.8 IOC).

3 DISCUSSION OF RESULTS:

All lead in water results were below the EPA Lead and Copper action level of 15 ppb. No analysis was performed for copper in water.

4 RECOMMENDATIONS:

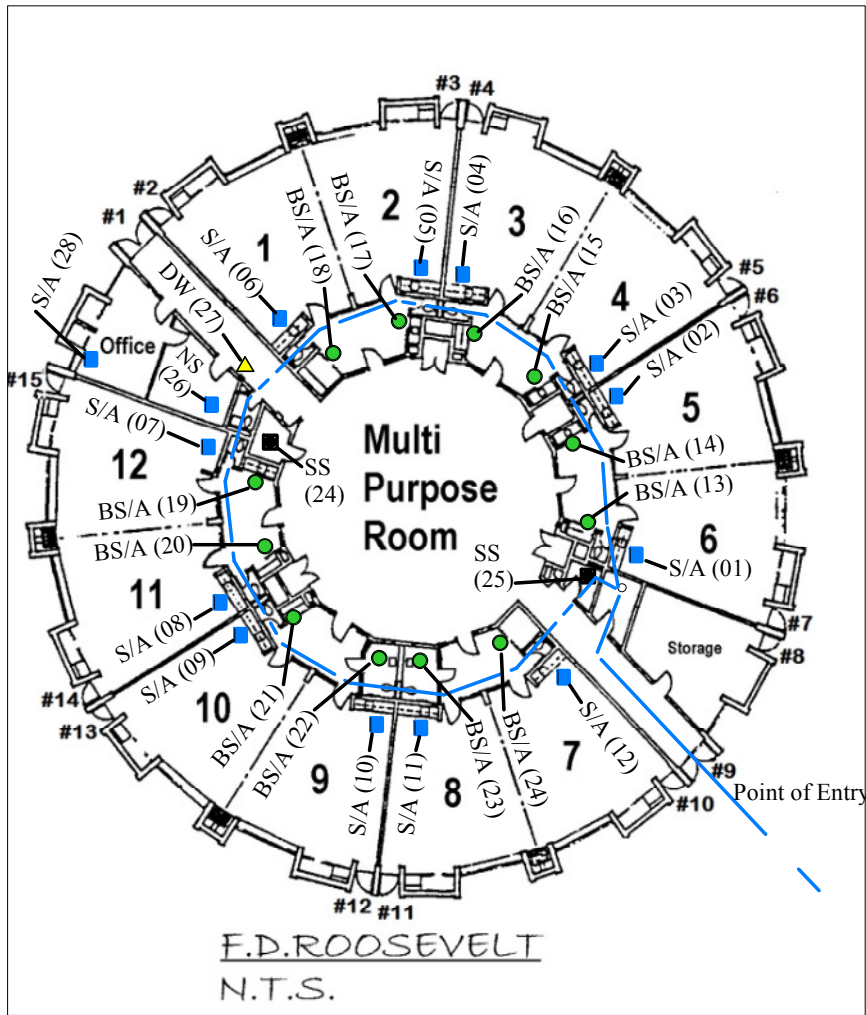
Short term:

- No further for action for outlets tested.

Long Term:

- If additional testing shows similar results (first draw results above 15 ppb) consider replacing the spout of the fountains (may contain brass, adding to lead levels), installing filters (if practical), or fixture replacement.
- Repeat full building testing on an annual basis. Generally this should be performed in August prior to the start of the school season.
- Develop a Lead in Water Management Plan in accordance with the 2006 EPA 3Ts for Reducing Lead in Drinking Water in Schools.

A. Outlet Location Plan



KEY

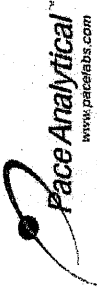
- KC = Kitchen Outlet, Cold
- ▲ WC = Water Cooler (Chilled Bubbler Unit)
- TL= Teacher Lounge Sink
- FP= Food Preparation Sink
- ▲ DW= Drinking Water Bubbler (non-chilled)
- ▲ SDW= Combination Sink Water Bubbler
- ▲ DDW=Double Drinking Water Bubbler
- EC = Home Economics Outlet, Cold
- IM = Ice Machine
- BS = Bathroom Sink
- NS = Nurse's Office Sink
- SS=Janitors Slop Sink
- /A = outlet has an aerator
- /F = outlet has a filter
- (01)=Outlet Number

Notes

1. Distribution piping runs under slab in a crawlspace. Risers exist at each cluster of outlets with laterals to each outlet.
2. Original building was constructed in 1957. Areas circled are additions from the 1980's.
3. Service pipe to building is reportedly cast iron, and interior piping is reportedly copper.

Dwg. Title: Plumbing Schematic		
Location: F. D. Roosevelt School, Edison, NJ		
Client: Edison Board of Education		
OMEGA ENVIRONMENTAL SERVICES, INC.	280 Huyler Street S. Hackensack, NJ 07606 Tel: (201) 489-8700 Fax: (201) 342-5412	Date: 8/23/16
		Proj. # 16-27002S
		Dwn. By: DSE
		Dwg. # 27002S-01P

B. Lead in Water Laboratory Reports



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Company: Omega Environmental Address: 280 Huyler Street S. Hackensack, NJ 07606 Email To: Lab@Omega-env.com Phone: 201-489-8700 Fax: 5 day Requested Due Date/TAT:		Section B Required Project Information: Report To: Lab@omega-env.com Copy To: mikel@omega-env.com, davide@omega-env.com emmam@omega-env.com Purchase Order No.: Project Name: FDR Project Number: 16-22025		Section C Invoice Information: Attention: Acct's Payable Company Name: Omega Environmental Address: 280 Huyler St, S Hackensack, NJ Pace Quote Reference: Pace Project Manager: Pace Profile #	
Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER Site Location STATE: NJ			

Page: 1 of 1

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WATER WT PRODUCT P SOIL/SOLID SL OIL OL WIFE WP AIR AR OTHER OT TISSUE TS	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES	Y/N	Requested Analysis is Filtered (Y/N)	Residual Chlorine (Y/N)
			COMPOSITE START	COMPOSITE END/GRAB							
1		01 - VE near Clinic - FD			DW G						
2		02 - L ↓ - FL			DW G						
3		03 - Nurse Office sink - FD			DW G						
4		04 - L ↓ - FL			DW G						
5		05 - Lightly SINKED			DW G						
6		06 - L ↓ - FL			DW G						
7		07 - WF Trailer - FD			DW G						
8		08 - WF Trailer - FL			DW G						
9					DW G						
10					DW G						
11					DW G						
12					DW G						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kyle Brown / Omega Env	8/9/16	11:05	Kyle Brown / Omega Env	8/9/16	11:00	
FD - First Draw Sample	Thomas Smith	8/11/16	13:44	Kyle Brown	8/11/16	13:45	
EL - Flush Sample							

Temp in °C	Received on	Sealed Cooler	Custody	Samples Intact
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Kyle Brown SIGNATURE of SAMPLER: Kyle Brown DATE Signed (MM/DD/YY): 08/10/16				



LABORATORY RESULTS

Results for the samples and analytes requested

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the certified tests requested.

Omega Environmental Services

280 Huyler Street

South Hackensack, NJ 07606

Attn To : Michael Levay

Federal ID :

Copies To :

Received : 08/11/16 1:45 PM

Collected By : Client

Sample Type : Potable Water

CC

Date Reported : 8/22/2016

Lab Number	Location	Collected	Lead	
			Units	ug/L
			Method	E200.8 : IOC
			Limits	15
1608C18-001A	01-WI NEAR CLINIC-FD	8/5/2016 1:00:00 PM		
	1			
Distribution			Analysis	1.3
			Time	8/20/2016 3:59:28 AM
				FDR
1608C18-002A	03-NURSE OFFICE SINK-	8/5/2016 1:00:00 PM		
	3			
Distribution			Analysis	7.0
			Time	8/20/2016 4:02:24 AM
				FDR
1608C18-003A	05-FACULTY SINK R-FD	8/5/2016 1:00:00 PM		
	5			
Distribution			Analysis	6.6
			Time	8/20/2016 4:17:05 AM
				FDR
1608C18-004A	07-WF TRAILER-FD	8/5/2016 1:00:00 PM		
	7			
Distribution			Analysis	< 1.0
			Time	8/20/2016 4:20:00 AM
				FDR
1608C18-005A	02-WF NEAR CLINIC-FL	8/5/2016 1:00:00 PM		
	2			
Distribution			Analysis	< 1.0
			Time	8/20/2016 4:22:55 AM
				FDR

Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 + = ELAP / NELAC does not offer certification for this analyte

Treatments:	
A = Air Stripper Tower	G = Granular Activated Carbon
FM = Iron/Manganese Removal	
N = Nitrate Removal	O = Other

Test results meet the requirements of NELAC unless otherwise noted.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Elizabeth Harrison

Project Manager



LABORATORY RESULTS

Results for the samples and analytes requested

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South Hackensack, NJ 07606

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Federal ID :

Copies To :

Received : 08/11/16 1:45 PM

Collected By : Client

Sample Type : Potable Water

CC

Date Reported : 8/22/2016

Lab Number	Location	Collected	Lead	
			Units	Method
			ug/L	E200.8 : IOC
			15	
1608C18-006A	04-NURSE OFFICE SINK-	8/5/2016 1:00:00 PM		
	4		Analysis	< 1.0
Distribution			Time	8/20/2016 4:25:50 AM
				FDR
1608C18-007A	06-FACULTY SINK R-FL	8/5/2016 1:00:00 PM		
	6		Analysis	< 1.0
Distribution			Time	8/20/2016 4:28:45 AM
				FDR
1608C18-008A	08-WF TRAILER-FL	8/5/2016 1:00:00 PM		
	8		Analysis	< 1.0
Distribution			Time	8/20/2016 4:31:39 AM
				FDR

Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 + = ELAP / NELAC does not offer certification for this analyte

Treatments:	
A = Air Stripper Tower	G = Granular Activated Carbon
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Test results meet the requirements of NELAC unless otherwise noted.

Elizabeth Harrison

Project Manager

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PACE ANALYTICAL
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **OES**

Date and Time Received: **8/11/2016 1:45:00 PM**

Work Order Number: **1608C18**

RcptNo: **1**

Received by: **John Lagula**

Completed by: *Jaclyn Kiri*

Reviewed by: *Elizabeth Harrison*

Completed Date: 8/11/2016 10:29:29 PM

Reviewed Date: 8/17/2016 1:23:53 PM

Carrier name: Client

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range:
- Sample Temp. taken and recorded upon receipt? Yes No To °
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bill Sticker Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:
 Contact Mode: Phone: Fax: Email: In Person:
 Client Instructions:
 Date Contacted: Contacted By:
 Regarding:
 Comments:
 CorrectiveAction:

WorkOrder :
1608C18

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS E TTS	M-NY026
NE W HAMP S HIRE	2987
RHODE IS LAND	LAO00340
P E NNS YLVANIA	68-00350