LEAD IN POTABLE WATER SCREENING REPORT

INVESTIGATION FOR:	Tom Wiggins South Plainfield Township Board of Education 165 Jackson Avenue South Plainfield, NJ 07080
SITE INVESTIGATED:	Frank R. Jost Field House 1250 Maple Avenue South Plainfield, NJ 07080
ASSESSMENT BY:	Kyle Brown Omega Environmental Services, Inc. 280 Huyler Street South Hackensack, NJ 07606
INVESTIGATION CONDUCTED:	11/10/16
DATE OF REPORT:	12/12/16

(Omega Project # 16-27004H)

Omega Environmental Services, Inc. 280 Huyler Street - South Hackensack, NJ 07606 - Tel: (201) 489-8700 - Fax: (201)342-5412

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EXECUTIVE SUMMARY:

The South Plainfield Township Board of Education requested lead in water testing of potable water outlets at Frank R. Jost Field House, 1250 Maple Avenue, South Plainfield, NJ 07080.

Previous Testing

No information related to previous testing was available.

Recent Testing (11/10/16)

In order to assess the building water outlets a full testing of all potable outlets was performed on November 10, 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

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1 RESULTS TABLE:

Sample #	Location	1st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level (1) (ppb)
1	Girls Locker Room Drinking Water	FD	5.2	15
2	Boys Locker Room Drinking Water	FD	2.1	15
3	Slop Sink in Maintenance Room	FD	9.8	15
4	Drinking Water Outside	FD	3.2	15
5	Field Blank	Field Blank	<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 (HNO_3) 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.

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4 RECOMMENDATIONS:

Short term:

- No further action is recommended in regards to outlets test

Long Term:

- 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.

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A. Lead in Water Laboratory Reports

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Pace Analytical Services, LLC
575 Broad Hollow Road
Melville, NY 11747
(631)694-3040

November 23, 2016

Emma Moody
Omega Environmental Services
280 Huyler Street
South Hackensack, NJ 07606

RE: Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

Dear Emma Moody:
Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Samples, in the electronic data deliverable (EDD) that accompanied this report, were flagged yellow if they exceeded the NYSDOH 15 ppb action level.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Elizabeth Harrison

Elizabeth Harrison
betty.harrison@pacelabs.com
Project Manager

Enclosures

cc: David Ekstrand, Omega Environmental Services
Michael Levay, Omega Environmental Services
Ray, Omega Environmental Services
Reports
Reports, Omega Environmental Services

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CERTIFICATIONS

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

Long Island Certification IDs

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435
Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

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SAMPLE SUMMARY

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

Lab ID	Sample ID	Matrix	Date Collected	Date Received
704714001	**01-S. GIRLS LOCJKER ROOM DW**	Drinking Water	11/10/16 09:00	11/12/16 10:00
704714002	**02-S. BOYS LOCKER ROOM DW**	Drinking Water	11/10/16 09:00	11/12/16 10:00
704714003	**03-SLOP SINK IN MAINTANCE RM**	Drinking Water	11/10/16 09:00	11/12/16 10:00
704714004	**05-FIELD BLANK**	Drinking Water	11/10/16 09:00	11/12/16 10:00
704714005	**04-DW OUTSIDE**	Drinking Water	11/10/16 09:00	11/12/16 10:00

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SAMPLE ANALYTE COUNT

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
704714001	**01-S. GIRLS LOCJKER ROOM DW**	EPA 200.8	AEG	1	PACE-MV
704714002	**02-S. BOYS LOCKER ROOM DW**	EPA 200.8	AEG	1	PACE-MV
704714003	**03-SLOP SINK IN MAINTANCE RM**	EPA 200.8	AEG	1	PACE-MV
704714004	**05-FIELD BLANK**	EPA 200.8	AEG	1	PACE-MV
704714005	**04-DW OUTSIDE**	EPA 200.8	AEG	1	PACE-MV

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ANALYTICAL RESULTS

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

Sample: 01-S. GIRLS LOCJKER ROOM DW **Lab ID: 704714001** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**5.2**	ug/L	1.0	1		11/21/16 23:21	7439-92-1	

Sample: 02-S. BOYS LOCKER ROOM DW **Lab ID: 704714002** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**2.1**	ug/L	1.0	1		11/21/16 23:24	7439-92-1	

Sample: 03-SLOP SINK IN MAINTANCE RM **Lab ID: 704714003** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**9.8**	ug/L	1.0	1		11/21/16 23:27	7439-92-1	

Sample: 05-FIELD BLANK **Lab ID: 704714004** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**<1.0**	ug/L	1.0	1		11/21/16 23:35	7439-92-1	

Sample: 04-DW OUTSIDE **Lab ID: 704714005** Collected: 11/10/16 09:00 Received: 11/12/16 10:00 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	**3.2**	ug/L	1.0	1		11/21/16 23:44	7439-92-1	

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QUALITY CONTROL DATA

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

QC Batch: 4697 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 704714001, 704714002, 704714003

METHOD BLANK: 23746 | Matrix: Water
Associated Lab Samples: 704714001, 704714002, 704714003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	11/21/16 22:02	

LABORATORY CONTROL SAMPLE: 23747

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.1	96	85-115	

MATRIX SPIKE SAMPLE: 23749

Parameter	Units	704710003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.6	120	70-130	

SAMPLE DUPLICATE: 23748

Parameter	Units	704710003 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

QC Batch: 4699
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 704714004, 704714005

METHOD BLANK: 23753
Matrix: Water
Associated Lab Samples: 704714004, 704714005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	11/21/16 23:29	

LABORATORY CONTROL SAMPLE: 23754

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.0	96	85-115	

MATRIX SPIKE SAMPLE: 23756

Parameter	Units	704714004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.4	117	70-130	

SAMPLE DUPLICATE: 23755

Parameter	Units	704714004 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FRANK R. JOST FH 16-27004H
Pace Project No.: 704714

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
704714001	**01-S. GIRLS LOCJKER ROOM DW**	EPA 200.8	4697		
704714002	**02-S. BOYS LOCKER ROOM DW**	EPA 200.8	4697		
704714003	**03-SLOP SINK IN MAINTANCE RM**	EPA 200.8	4697		
704714004	**05-FIELD BLANK**	EPA 200.8	4699		
704714005	**04-DW OUTSIDE**	EPA 200.8	4699		

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CHAIN-OF-CUSTODY / Analytical Request Docume

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

WO# : 704714

704714

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:
Requested Due Date/TAT:	5 day

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:	Frank R. Scott Field House
Project Number:	16-2700-1H

Section C
Invoice Information:

Attention:	Accts Payable
Company Name:	Omega Environmental
Address:	280 Huyler St, S Hackensack, NJ
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NJ

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Lead in drink water 200.8	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	01 - S Girls locker Rm DW	DW	G			11/10/16	9:00					x							x		
2	02 - S Boys locker Rm DW	DW	G			↓	↓					x							x		
3	03 - Slop sink in Maintenance Rm	DW	G									x							x		
4	04 - DW outside	DW	G									x							x		
5	05 - Field Blank	DW	G									x							x		
6		DW	G									x							x		
7		DW	G									x							x		
8		DW	G									x							x		
9		DW	G									x							x		
10		DW	G									x							x		
11		DW	G									x							x		
12		DW	G									x							x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kyle Brown	11/10/16	10:50	[illegible]	11/10/16	1300	
	[illegible]	11/10/16	1500	[illegible]	11/10/16	1600	Box
FD - First Draw Sample							
FL - Flush Sample							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kyle Brown

SIGNATURE of SAMPLER: Kyle Brown — DATE Signed (MM/DD/YY): 11/10/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

WO#:704714

PM: EMH Due Date: 11/21/16

CLIENT: OES

Pace Analytical

Sample Condition Upon Receipt

Client Name: OES

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 7846 2054 6370

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

Thermometer Used: TH077 TH078 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

10:00

Cooler Temperature: _____

Box

Date and Initials of person examining contents: 11/12/16 TP

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☒ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☒ Yes ☐ No ☐ N/A	2.
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3.
Sampler Name & Signature on COC:	☒ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No ☐ N/A	5.
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No ☐ N/A	6.
Rush Turn Around Time Requested:	☒ Yes ☐ No ☐ N/A	7. 5 TAT
Sufficient Volume:	☒ Yes ☐ No ☐ N/A	8.
Correct Containers Used:	☒ Yes ☐ No ☐ N/A	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
Containers Intact:	☒ Yes ☐ No ☐ N/A	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC:	☒ Yes ☐ No ☐ N/A	12.
-Includes date/time/ID/Analysis Matrix SL WT OIL		
All containers needing preservation have been checked.	☒ Yes ☐ No ☐ N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☒ Yes ☐ No ☐ N/A	Initial when completed: / Lot # of added preservative:
Exceptions: VOA, micro, TOC, O&G		Date and Time preservative added:
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☐ Yes ☐ No ☒ N/A	15.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	16.
Trip Blank Custody Seals Present	☐ Yes ☐ No ☒ N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

* PM (Project Manager) review is documented electronically in LIMS.

F-LI-C-002-rev.00