



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: Roosevelt Elementary School
135 Jackson Ave
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: 12/16/16

(Omega Project # 16-27004E)

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EXECUTIVE SUMMARY:

The South Plainfield Township Board of Education requested lead in water testing of potable water outlets at Roosevelt Elementary School, 135 Jackson Ave, 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 22 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:

Sample #	Location	1st draw (FD) or flush (FL)	Results (ppb)	LCR Action Level ⁽¹⁾ (ppb)
1	Kitchen (L)	FD	1.2	15
2	Kitchen (R)	FD	<1.0	15
3	At Room 95 (L)	FD	<1.0	15
4	At Room 95 (R)	FD	<1.0	15
5	Room 101	FD	<1.0	15
6	Room 104	FD	<1.0	15
7	Room 109	FD	<1.0	15
8	Room 108	FD	<1.0	15
9	Room 107	FD	<1.0	15
10	Room 83	FD	2.5	15
11	Nurse Room 80	FD	1.3	15
12	Nurse Lavatory	FD	<1.0	15
13	Library	FD	10.6	15
14	Room 32 (Faculty)	FD	3.2	15
15	Room 24	FD	<1.0	15
16	Room 11	FD	<1.0	15
17	Room 9	FD	<1.0	15
18	Room 4	FD	<1.0	15
19	At Room 4 (L)	FD	<1.0	15
20	At Room 4 (R)	FD	<1.0	15
21	Room 3	FD	<1.0	15
22	Room 2	FD	<1.0	15
23	Field Blank	FD	<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 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.

A. Lead in Water Laboratory Reports

December 13, 2016

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

RE: Project: SP BOE RSEVELT SCH 16-27004E
Pace Project No.: 705055

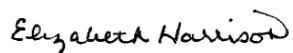
Dear Emma Moody:

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
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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

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: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

Lab ID	Sample ID	Matrix	Date Collected	Date Received
705055001	1-KF-KITCHEN (L) -FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055002	2-KF-KITCHEN (R)-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055003	3-DW-@RM95(L)-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055004	4-DW-@RM 95(R)-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055005	5-DW-ROOM101-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055006	6-DW-ROOM104-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055007	7-DW-ROOM109-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055008	8-DW-ROOM108-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055009	9-DW-ROOM107-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055010	10-DW-ROOM83-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055011	11-NS-NURSE RM 80-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055012	12-NS-NURSE LAVATORY-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055013	13-DW-LIBRARY-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055014	14-TL-ROOM32(FACULTY)-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055015	15-DW-ROOM24-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055016	16-DW-ROOM11-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055017	17-DW-ROOM9-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055018	18-DW-ROOM4-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055019	19-DW-@ROOM 4 (L)	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055020	20-DW-@ROOM 4(R)	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055022	21-DW-ROOM3-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055023	22-DW-ROOM 2-FD	Drinking Water	11/10/16 09:00	11/12/16 10:00
705055024	23-FIELD BLANK	Drinking Water	11/10/16 09:00	11/12/16 10:00

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SAMPLE ANALYTE COUNT

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
705055001	1-KF-KITCHEN (L) -FD	EPA 200.8	AEG	1	PACE-MV
705055002	2-KF-KITCHEN (R)-FD	EPA 200.8	AEG	1	PACE-MV
705055003	3-DW-@RM95(L)-FD	EPA 200.8	AEG	1	PACE-MV
705055004	4-DW-@RM 95(R)-FD	EPA 200.8	AEG	1	PACE-MV
705055005	5-DW-ROOM101-FD	EPA 200.8	AEG	1	PACE-MV
705055006	6-DW-ROOM104-FD	EPA 200.8	AEG	1	PACE-MV
705055007	7-DW-ROOM109-FD	EPA 200.8	AEG	1	PACE-MV
705055008	8-DW-ROOM108-FD	EPA 200.8	AEG	1	PACE-MV
705055009	9-DW-ROOM107-FD	EPA 200.8	AEG	1	PACE-MV
705055010	10-DW-ROOM83-FD	EPA 200.8	AEG	1	PACE-MV
705055011	11-NS-NURSE RM 80-FD	EPA 200.8	AEG	1	PACE-MV
705055012	12-NS-NURSE LAVATORY-FD	EPA 200.8	AEG	1	PACE-MV
705055013	13-DW-LIBRARY-FD	EPA 200.8	AEG	1	PACE-MV
705055014	14-TL-ROOM32(FACULTY)-FD	EPA 200.8	AEG	1	PACE-MV
705055015	15-DW-ROOM24-FD	EPA 200.8	AEG	1	PACE-MV
705055016	16-DW-ROOM11-FD	EPA 200.8	AEG	1	PACE-MV
705055017	17-DW-ROOM9-FD	EPA 200.8	AEG	1	PACE-MV
705055018	18-DW-ROOM4-FD	EPA 200.8	AEG	1	PACE-MV
705055019	19-DW-@ROOM 4 (L)	EPA 200.8	AEG	1	PACE-MV
705055020	20-DW-@ROOM 4(R)	EPA 200.8	AEG	1	PACE-MV
705055022	21-DW-ROOM3-FD	EPA 200.8	AEG	1	PACE-MV
705055023	22-DW-ROOM 2-FD	EPA 200.8	AEG	1	PACE-MV
705055024	23-FIELD BLANK	EPA 200.8	AEG	1	PACE-MV

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

Sample: 1-KF-KITCHEN (L) -FD		Lab ID: 705055001	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	1.2	ug/L	1.0	1		11/22/16 20:03	7439-92-1	
Sample: 2-KF-KITCHEN (R)-FD		Lab ID: 705055002	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		11/22/16 20:06	7439-92-1	
Sample: 3-DW-@RM95(L)-FD		Lab ID: 705055003	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		11/22/16 20:09	7439-92-1	
Sample: 4-DW-@RM 95(R)-FD		Lab ID: 705055004	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		11/22/16 20:12	7439-92-1	
Sample: 5-DW-ROOM101-FD		Lab ID: 705055005	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		11/22/16 20:15	7439-92-1	
Sample: 6-DW-ROOM104-FD		Lab ID: 705055006	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		11/22/16 20:18	7439-92-1	

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ANALYTICAL RESULTS

Project: SP BOE RSEVELT SCH 16-27004E
Pace Project No.: 705055

Sample: 7-DW-ROOM109-FD		Lab ID: 705055007	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		11/22/16 20:20	7439-92-1	
Sample: 8-DW-ROOM108-FD		Lab ID: 705055008	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		11/22/16 20:23	7439-92-1	
Sample: 9-DW-ROOM107-FD		Lab ID: 705055009	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		11/22/16 20:26	7439-92-1	
Sample: 10-DW-ROOM83-FD		Lab ID: 705055010	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	2.5	ug/L	1.0	1		11/22/16 20:29	7439-92-1	
Sample: 11-NS-NURSE RM 80-FD		Lab ID: 705055011	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	1.3	ug/L	1.0	1		11/22/16 20:38	7439-92-1	
Sample: 12-NS-NURSE LAVATORY-FD		Lab ID: 705055012	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		11/22/16 20:41	7439-92-1	

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ANALYTICAL RESULTS

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

Sample: 13-DW-LIBRARY-FD		Lab ID: 705055013	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	10.6	ug/L	1.0	1		11/22/16 20:44	7439-92-1	
Sample: 14-TL-ROOM32(FACULTY)-FD		Lab ID: 705055014	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		11/22/16 20:47	7439-92-1	
Sample: 15-DW-ROOM24-FD		Lab ID: 705055015	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		11/22/16 20:50	7439-92-1	
Sample: 16-DW-ROOM11-FD		Lab ID: 705055016	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		11/22/16 20:53	7439-92-1	
Sample: 17-DW-ROOM9-FD		Lab ID: 705055017	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		11/22/16 20:55	7439-92-1	
Sample: 18-DW-ROOM4-FD		Lab ID: 705055018	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		11/22/16 20:58	7439-92-1	

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ANALYTICAL RESULTS

Project: SP BOE RSEVELT SCH 16-27004E
Pace Project No.: 705055

Sample: 19-DW-@ROOM 4 (L)		Lab ID: 705055019	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 11/22/16 21:01 7439-92-1

Sample: 20-DW-@ROOM 4(R)		Lab ID: 705055020	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 11/22/16 21:16 7439-92-1

Sample: 21-DW-ROOM3-FD		Lab ID: 705055022	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 11/22/16 21:25 7439-92-1

Sample: 22-DW-ROOM 2-FD		Lab ID: 705055023	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 11/22/16 21:28 7439-92-1

Sample: 23-FIELD BLANK		Lab ID: 705055024	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 11/22/16 21:30 7439-92-1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

QC Batch: 5256 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
 Associated Lab Samples: 705055001, 705055002, 705055003, 705055004, 705055005, 705055006, 705055007, 705055008, 705055009, 705055010, 705055011, 705055012, 705055013, 705055014, 705055015, 705055016, 705055017, 705055018, 705055019

METHOD BLANK: 26926 Matrix: Water
 Associated Lab Samples: 705055001, 705055002, 705055003, 705055004, 705055005, 705055006, 705055007, 705055008, 705055009, 705055010, 705055011, 705055012, 705055013, 705055014, 705055015, 705055016, 705055017, 705055018, 705055019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	11/22/16 19:42	

LABORATORY CONTROL SAMPLE: 26927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.5	97	85-115	

MATRIX SPIKE SAMPLE: 26929

Parameter	Units	705048021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.5	126	70-130	

SAMPLE DUPLICATE: 26928

Parameter	Units	705048021 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: SP BOE RSEVELT SCH 16-27004E
Pace Project No.: 705055

QC Batch: 5257 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 705055020, 705055022, 705055023, 705055024

METHOD BLANK: 26932 Matrix: Water
Associated Lab Samples: 705055020, 705055022, 705055023, 705055024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	11/22/16 21:04	

LABORATORY CONTROL SAMPLE: 26933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.4	97	85-115	

MATRIX SPIKE SAMPLE: 26935

Parameter	Units	705055020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	2	2.5	120	70-130	

SAMPLE DUPLICATE: 26934

Parameter	Units	705055020 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		20	

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QUALIFIERS

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: SP BOE RSEVELT SCH 16-27004E

Pace Project No.: 705055

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
705055001	1-KF-KITCHEN (L) -FD	EPA 200.8	5256		
705055002	2-KF-KITCHEN (R)-FD	EPA 200.8	5256		
705055003	3-DW-@RM95(L)-FD	EPA 200.8	5256		
705055004	4-DW-@RM 95(R)-FD	EPA 200.8	5256		
705055005	5-DW-ROOM101-FD	EPA 200.8	5256		
705055006	6-DW-ROOM104-FD	EPA 200.8	5256		
705055007	7-DW-ROOM109-FD	EPA 200.8	5256		
705055008	8-DW-ROOM108-FD	EPA 200.8	5256		
705055009	9-DW-ROOM107-FD	EPA 200.8	5256		
705055010	10-DW-ROOM83-FD	EPA 200.8	5256		
705055011	11-NS-NURSE RM 80-FD	EPA 200.8	5256		
705055012	12-NS-NURSE LAVATORY-FD	EPA 200.8	5256		
705055013	13-DW-LIBRARY-FD	EPA 200.8	5256		
705055014	14-TL-ROOM32(FACULTY)-FD	EPA 200.8	5256		
705055015	15-DW-ROOM24-FD	EPA 200.8	5256		
705055016	16-DW-ROOM11-FD	EPA 200.8	5256		
705055017	17-DW-ROOM9-FD	EPA 200.8	5256		
705055018	18-DW-ROOM4-FD	EPA 200.8	5256		
705055019	19-DW-@ROOM 4 (L)	EPA 200.8	5256		
705055020	20-DW-@ROOM 4(R)	EPA 200.8	5257		
705055022	21-DW-ROOM3-FD	EPA 200.8	5257		
705055023	22-DW-ROOM 2-FD	EPA 200.8	5257		
705055024	23-FIELD BLANK	EPA 200.8	5257		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

W0# : 705055



705055

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Omega Environmental	Report To:	Michael LeVay	Attention:	Acis Payable
Address:	280 Huyler Street South Hackensack, NJ 07603	Copy To:	mikel@omega-env.com lab@omega-env.com	Company Name:	Omega Environmental
Email To:	lab@omega-env.com	Purchase Order No.:		Address:	280 Huyler Street
Phone:	201.489.8700	Project Name:	SP BOE Roosevelt School	Pace Quote Reference:	
Requested Due Date/TAT:	5 Day/Tat	Project Number:	16-27004E	Pace Project Manager:	
			REGULATORY AGENCY NPDES GROUND WATER X DRINKING WATER UST RCRA OTI _____ Site Location STATE: NJ		

ITEM #	Required Client Information	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
				COMPOSITE START	COMPOSITE END/GRAB			H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other				
1	KF Kitchen (L)	FD	FD	DATE	TIME		1	X										
2	KF Kitchen (R)	FD	FD	DATE	TIME		1	X										
3	DW @ Rm 95 (L)	FD	FD	DATE	TIME		1	X										
4	DW @ Rm 95 (R)	FD	FD	DATE	TIME		1	X										
5	DW Room 101	FD	FD	DATE	TIME		1	X										
6	DW Room 104	FD	FD	DATE	TIME		1	X										
7	DW Room 109	FD	FD	DATE	TIME		1	X										
8	DW Room 108	FD	FD	DATE	TIME		1	X										
9	DW Room 107	FD	FD	DATE	TIME		1	X										
10	DW Room 83	FD	FD	DATE	TIME		1	X										
11	NS Nurse Rm 80	FD	FD	DATE	TIME		1	X										
12	NS Nurse Lavatory	FD	FD	DATE	TIME		1	X										

SAMPLER NAME AND SIGNATURE		DATE		TIME		DATE		TIME		DATE		TIME	
PRINT Name of SAMPLER: Kyle Bowen		11/10/16		10:56		11/10/16		13:00		11/21/16		10:00	
SIGNATURE of SAMPLER: <i>Kyle Bowen</i>		<i>Kyle Bowen</i>		<i>Kyle Bowen</i>		<i>Kyle Bowen</i>		<i>Kyle Bowen</i>		<i>Kyle Bowen</i>		<i>Kyle Bowen</i>	

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



CHAIN-OF-CUSTODY / Analytical Request Doc

WO# : 705055
 PM: EMH Due Date: 11/21/16
 CLIENT: OES

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

Page: 2 of 2

Section A	Section B	Section C
Required Client Information: Company: Omega Environmental Address: 280 Huyler Street South Hackensack, NJ 07606 Email To: lab@omega-env.com Phone: 201.489.8700 Requested Due Date/TAT: 5 Day/Tat	Required Project Information: Report To: Michael LeVay Copy To: mikel@omega-env.com lab@omega-env.com Purchase Order No.: Project Name: SP BOE Roosevelt School Project Number: 16-27004E	Invoice Information: Attention: Accts Payable Company Name: Omega Environmental Address: 280 Huyler Street Pace Quote Reference Pace Project Manager Pace Profile #
REGULATORY AGENCY NPDES GROUND WATER X DRINKING WATER UST RCRA OTI		Site Location STATE: NJ

ITEM #	Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			CONCENTRATE START	CONCENTRATE END/DATE							
1	13 DW Library	FD	DW	G		1	X	X			
2	14 TL Room 32 (Faculty)	FD	DW	G		1	X	X			
3	15 DW Room 24	FD	DW	G		1	X	X			
4	16 DW Room 11	FD	DW	G		1	X	X			
5	17 DW Room 9	FD	DW	G		1	X	X			
6	18 DW Room 4	FD	DW	G		1	X	X			
7	19 DW @ Room 4 (L)	FD	DW	G		1	X	X			
8	20 DW @ Room 4 (R)	FD	DW	G		1	X	X			
9	21 DW Room 3	FD	DW	G		1	X	X			
10	22 DW Room 2	FD	DW	G		1	X	X			
11	23 DW Room 2	FD	DW	G		1	X	X			
12	24 DW 0	FD	DW	G		1	X	X			

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Kyle Bowen Omega Env	11/10/16	10:50	Harvey Stein Omega Env	11/10/16	1:00	Box N ✓

ADDITIONAL COMMENTS

UNIQUE SAMPLE ID (A-Z, 0-9 / -)

Sample IDs MUST BE

REINQUISHED BY / AFFILIATION

DATE

TIME

Temp in °C

Received on Ice (Y/N)

Custody Sealed

Samples Intact (Y/N)



WO#: 705055
 PM: EMH Due Date: 11/21/16
 CLIENT: OES

Sample Condition Upon Receipt

Client Name: OES

Optional
 Proj. Due Date: _____
 Proj. Name: _____

Courier: Fed Ex UPS UPS Client Commercial Private Other _____
 Tracking #: 7896 2054 6370
 Custody Seal on Cooler/Box Present: Yes No Intact: Yes No
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used: TH077 TH078 Type of Ice: Wet Blue None Box Samples on ice, cooling process has begun
 Cooler Temperature: _____
 Date and Initials of person examining contents: 11/21/16 SP

Temp should be above freezing to 6°C
 Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Face Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
-Includes date/time/D/Analysis Matrix SL WT OIL	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Exceptions: VOA, micro, TOC, O&G		17.
Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	18.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	19.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	20.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	21.
Face Trip Blank Lot # (if purchased):		22.

Client Notification/Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: _____
 Field Data Required? Y / N