

July 17, 2019

Mike Nickerson, CHMM
Environmental/Safety Coordinator
Central Bucks School District
320 West Swamp Road
Doylestown, PA 18901

**Re: Lead in Drinking Water Sample Collection and Reporting
Buckingham Elementary School
2414 Durham Road
Furlong, PA 18912
Bucks County, Pennsylvania**

Dear Mr. Nickerson:

This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. fountains, sink faucets, etc.) as identified by the Central Bucks School District facility inventory. The collected samples were sent to the Pennsylvania certified environmental laboratory, PACE Analytical, and analyzed for total lead by USEPA Method 200.8, to meet Pennsylvania's action level requirements.

The results did not detect any exceedances at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L) with the exception of the following locations:

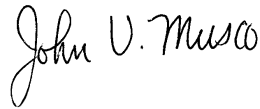
<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Rm 3	B3	449.0 ug/L
Library	B23A	31.8 ug/L
Rm 51	B51	34.6 ug/L
Rm 52	B52	18.4 ug/L
Faculty room	B57	31.7 ug/L
Nurses office	B2A	52.1 ug/L

As requested by Mike Nickerson, here is a list of locations with lead results above 10 ug/L, but below Pennsylvania Action Level of 15 ug/L are as follows:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Rm 4	B4A	12.7 ug/L
Rm 5	B5	12.6 ug/L
Rm 8	B8B	14.9 ug/L
Rm 53	B53	13.7 ug/L
Rm 54	B54	14.9 ug/L
Rm 55	B55	14.7 ug/L
Kitchen 2 – bowl under window	B58	13.4 ug/L
Nurses office	B2B	14.6 ug/L

A field sketch of the sampling locations and copy of the laboratory report is attached.

Sincerely,
Langan Engineering & Environmental Services, Inc.



John V. Musco
Associate

Enclosure

cc: R. Copenhaver, PG – Langan
B. Lambing. - Langan
Tyler Arinder – Langan

NJ Certificate of Authorization No. 24GA27996400

\\langan.com\data\DYL\data4\200130401\Project Data\Record Data\Reports\Day 6_6-12-19 East Cold Spring Buck\Buckingham_Lead_Sampling_Memo.docx

June 26, 2019

Randy Copenhaver
Langan Engineering
2700 Kelly Road, Suite 200
Warrington, PA 18976

RE: Project: CENTRAL BUCKS SCH(BUCKINGHAM)
Pace Project No.: 7094032

Dear Randy Copenhaver:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 2019. 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.

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

Sincerely,



John D. Stanton
john.stanton@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Bill Lambing, Langan Engineering



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)

Pace Project No.: 7094032

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)

Pace Project No.: 7094032

Sample: B3	Lab ID: 7094032001	Collected: 06/12/19 06:46	Received: 06/14/19 11:00	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	449	ug/L	1.0	1		06/26/19 01:09	7439-92-1	
Sample: B4A	Lab ID: 7094032002	Collected: 06/12/19 06:47	Received: 06/14/19 11:00	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	12.7	ug/L	1.0	1		06/26/19 01:12	7439-92-1	
Sample: B5	Lab ID: 7094032003	Collected: 06/12/19 06:48	Received: 06/14/19 11:00	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	12.6	ug/L	1.0	1		06/26/19 01:15	7439-92-1	
Sample: B8A	Lab ID: 7094032004	Collected: 06/12/19 06:49	Received: 06/14/19 11:00	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	6.0	ug/L	1.0	1		06/26/19 01:30	7439-92-1	
Sample: B8B	Lab ID: 7094032005	Collected: 06/12/19 06:49	Received: 06/14/19 11:00	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	14.9	ug/L	1.0	1		06/26/19 01:39	7439-92-1	
Sample: B9	Lab ID: 7094032006	Collected: 06/12/19 06:50	Received: 06/14/19 11:00	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	6.3	ug/L	1.0	1		06/26/19 01:42	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)

Pace Project No.: 7094032

Sample: B11	Lab ID: 7094032007	Collected: 06/12/19 06:51	Received: 06/14/19 11:00	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	6.8	ug/L	1.0	1		06/26/19 01:45	7439-92-1	
Sample: B12A	Lab ID: 7094032008	Collected: 06/12/19 06:51	Received: 06/14/19 11:00	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	7.3	ug/L	1.0	1		06/26/19 01:48	7439-92-1	
Sample: B13	Lab ID: 7094032009	Collected: 06/12/19 06:53	Received: 06/14/19 11:00	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	6.4	ug/L	1.0	1		06/26/19 01:51	7439-92-1	
Sample: B16	Lab ID: 7094032010	Collected: 06/12/19 06:54	Received: 06/14/19 11:00	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	8.4	ug/L	1.0	1		06/26/19 02:00	7439-92-1	
Sample: B17	Lab ID: 7094032011	Collected: 06/12/19 06:54	Received: 06/14/19 11:00	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	6.5	ug/L	1.0	1		06/26/19 02:03	7439-92-1	
Sample: B18	Lab ID: 7094032012	Collected: 06/12/19 06:56	Received: 06/14/19 11:00	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	4.2	ug/L	1.0	1		06/26/19 02:06	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)

Pace Project No.: 7094032

Sample:	Lab ID:	Collected:	Received:	Matrix:				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: B19	Lab ID: 7094032013	Collected: 06/12/19 06:56	Received: 06/14/19 11:00	Matrix: Drinking Water				
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	7.5	ug/L	1.0	1		06/26/19 02:09	7439-92-1	
Sample: B24	Lab ID: 7094032014	Collected: 06/12/19 06:58	Received: 06/14/19 11:00	Matrix: Drinking Water				
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	4.2	ug/L	1.0	1		06/26/19 02:12	7439-92-1	
Sample: B23A	Lab ID: 7094032015	Collected: 06/12/19 06:58	Received: 06/14/19 11:00	Matrix: Drinking Water				
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	31.8	ug/L	1.0	1		06/26/19 02:21	7439-92-1	
Sample: BLF	Lab ID: 7094032016	Collected: 06/12/19 06:59	Received: 06/14/19 11:00	Matrix: Drinking Water				
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	<1.0	ug/L	1.0	1		06/26/19 02:24	7439-92-1	
Sample: B38	Lab ID: 7094032017	Collected: 06/12/19 07:01	Received: 06/14/19 11:00	Matrix: Drinking Water				
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	5.1	ug/L	1.0	1		06/26/19 02:28	7439-92-1	
Sample: B39	Lab ID: 7094032018	Collected: 06/12/19 07:01	Received: 06/14/19 11:00	Matrix: Drinking Water				
200.8 MET ICPMS Drinking Water	Analytical Method: EPA 200.8							
Lead	7.9	ug/L	1.0	1		06/26/19 02:36	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)
Pace Project No.: 7094032

Sample: B51		Lab ID: 7094032025	Collected: 06/12/19 07:07	Received: 06/14/19 11:00	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	34.6	ug/L	1.0	1		06/26/19 03:16	7439-92-1	
Sample: B52		Lab ID: 7094032026	Collected: 06/12/19 07:07	Received: 06/14/19 11:00	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	18.4	ug/L	1.0	1		06/26/19 03:19	7439-92-1	
Sample: B53		Lab ID: 7094032027	Collected: 06/12/19 07:08	Received: 06/14/19 11:00	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	13.7	ug/L	1.0	1		06/26/19 03:22	7439-92-1	
Sample: B54		Lab ID: 7094032028	Collected: 06/12/19 07:08	Received: 06/14/19 11:00	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	14.9	ug/L	1.0	1		06/26/19 03:25	7439-92-1	
Sample: B55		Lab ID: 7094032029	Collected: 06/12/19 07:09	Received: 06/14/19 11:00	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	14.7	ug/L	1.0	1		06/26/19 03:28	7439-92-1	
Sample: B56		Lab ID: 7094032030	Collected: 06/12/19 07:09	Received: 06/14/19 11:00	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		06/26/19 03:31	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)
Pace Project No.: 7094032

Sample: B62F	Lab ID: 7094032031	Collected: 06/12/19 06:42	Received: 06/14/19 11:00	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	2.7	ug/L	1.0	1		06/26/19 03:34	7439-92-1	
Sample: B57	Lab ID: 7094032032	Collected: 06/12/19 06:41	Received: 06/14/19 11:00	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	31.7	ug/L	1.0	1		06/26/19 03:37	7439-92-1	
Sample: B58	Lab ID: 7094032033	Collected: 06/12/19 06:40	Received: 06/14/19 11:00	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	13.4	ug/L	1.0	1		06/26/19 03:40	7439-92-1	
Sample: BGA	Lab ID: 7094032034	Collected: 06/12/19 06:43	Received: 06/14/19 11:00	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		06/26/19 03:49	7439-92-1	
Sample: BGB	Lab ID: 7094032035	Collected: 06/12/19 06:43	Received: 06/14/19 11:00	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		06/26/19 03:58	7439-92-1	
Sample: B2A	Lab ID: 7094032036	Collected: 06/12/19 06:45	Received: 06/14/19 11:00	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	52.1	ug/L	1.0	1		06/26/19 04:01	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH(BUCKINGHAM)

Pace Project No.: 7094032

Sample: B2B	Lab ID: 7094032037	Collected: 06/12/19 06:45	Received: 06/14/19 11:00	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	14.6	ug/L	1.0	1		06/26/19 04:04	7439-92-1	

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