

Technical Excellence Practical Experience Client Responsiveness

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 Tamanend Middle School 1492 Stuckert Road Warrington, PA 18976 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).

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:

Location	Sample ID	<u>Result</u>
Kitchen 1 - bowl next to uprights	T3012	12.1 ug/L

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

Sincerely, Langan Engineering & Environmental Services, Inc.

John U. Musco

John V. Musco Associate

Enclosure cc: R. Copenhaver, PG – Langan B. Lambing. - Langan Tyler Arinder – Langan NJ Certificate of Authorization No. 24GA27996400 Wangan.com/data\DYL\data4\200130401\Project Data\Record Data\Reports\Day 1_6-5-19_Tamanend_Doyle\Tamanend_Lead_Sampling_Memo.docx

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

June 21, 2019

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

RE: Project: CENTRAL BUCKS SCHOOL(TAMANEND) Pace Project No.: 7093917

Dear Randy Copenhaver:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 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,

Joh Sh

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

Enclosures

cc: Bill Lambing, Langan Engineering





CERTIFICATIONS

Project: CENTRAL BUCKS SCHOOL(TAMANEND)

Pace Project No.: 7093917

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



Project: CENTRAL BUCKS SCHOOL(TA	AMANEND)
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Sample: TAUD	Lab ID: 7093917001		Collected: 06/05/1	19 03:36	Received:	Matrix: Drinking	king Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical M	ethod: EPA 2	00.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 03:0	08 7439-92-1		
Sample: TNA	Lab ID: 7	093917002	2 Collected: 06/05/19 04:22 Received: 06/12/19 11:00 Matrix: Drinki						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical M	ethod: EPA 2	00.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 03:1	1 7439-92-1		
Sample: TNB	Lab ID: 7	093917003	Collected: 06/05/1	19 04:21	Received:	06/12/19 11:00	Matrix: Drinking	g Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical M	ethod: EPA 2	00.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 03:1	4 7439-92-1		
Sample: TN	Lab ID: 7	093917004	Collected: 06/05/1	19 04:24	Received:	06/12/19 11:00	Matrix: Drinking	g Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical M	ethod: EPA 2	00.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 03:1	7 7439-92-1		
Sample: T225A	Lab ID: 7	093917005	Collected: 06/05/1	19 04:18	Received:	06/12/19 11:00	Matrix: Drinking	g Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical M	ethod: EPA 2	00.8						
Lead	<1.0	ug/L	1.0	1		06/21/19 03:2	20 7439-92-1		
Sample: T225B	Lab ID: 7	093917006	Collected: 06/05/1	19 04:17	Received:	06/12/19 11:00	Matrix: Drinking	g Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
200.8 MET ICPMS Drinking Water	Analytical M	ethod: EPA 2	00.8						
Lead	1.0	ug/L	1.0	1		06/21/19 03.2	23 7439-92-1		



Project: CENTRAL BUCKS SCHOOL(TAMANEND)

Sample: T238	Lab ID: 7093917007		Collected:	Collected: 06/05/19 04:15			06/12/19 11:00	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 20	8.00								
Lead	<1.0	0 ug/L		1.0	0 1 06/21/19 03:26 7439-92-1						
Sample: T508A	Lab ID:	7093917008	Collected:	06/05/1	19 04:14	4 Received: 06/12/19 11:00 Matrix: Drinking Wat					
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 20	8.00								
Lead	<1.0	0 ug/L		1.0	1		06/21/19 03:2	29 7439-92-1			
Sample: T508B	Lab ID:	7093917009	Collected:	06/05/1	19 04:13	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	8.00								
Lead	<1.	0 ug/L		1.0	1		06/21/19 03:4	44 7439-92-1			
Sample: TBA	Lab ID:	7093917010	Collected:	06/05/1	19 04:11	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 20	8.00								
Lead	<1.0	0 ug/L		1.0	1		06/21/19 03:4	47 7439-92-1			
Sample: TBB	Lab ID:	7093917011	Collected:	06/05/1	19 04:10	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	8.00								
Lead	<1.0	0 ug/L		1.0	1		06/21/19 03:	50 7439-92-1			
Sample: TLO	Lab ID:	7093917012	Collected:	06/05/1	19 04:20	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 20	00.8								
Lead	5.	5 ug/L		1.0	1		06/21/10 03-1	53 7439-92-1			



Project:	CENTRAL BUCKS SCHOOL(TAMANEND)
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Sample: T307A	Lab ID: 7093917013		Collected: 06/05/	19 04:00	Received:	06/12/19 11:00	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical N	lethod: EPA 2	00.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 03:5	56 7439-92-1			
Sample: T307B	Lab ID: 7	093917014	Collected: 06/05/	ollected: 06/05/19 04:01 Received: 06/12/19 11:00 Matrix: Drinking						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical N	lethod: EPA 2	00.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 03:5	59 7439-92-1			
Sample: T307C	Lab ID: 7	093917015	Collected: 06/05/*	19 04:02	2 Received: 06/12/19 11:00 Matrix: Drinking Wa					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical N	lethod: EPA 2	00.8							
Lead	<1.0	ug/L	1.0	1		06/21/19 04:0)2 7439-92-1			
Sample: T307D	Lab ID: 7	093917016	Collected: 06/05/*	19 04:03	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical N	lethod: EPA 2	00.8							
Lead	1.5	ug/L	1.0	1		06/21/19 04:0)5 7439-92-1			
Sample: T307E	Lab ID: 7	093917017	Collected: 06/05/	19 04:04	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical N	lethod: EPA 2	00.8							
Lead	2.0	ug/L	1.0	1		06/21/19 04:0)8 7439-92-1			
Sample: T307F	Lab ID: 7	093917018	Collected: 06/05/	19 04:05	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical N	lethod: EPA 2	00.8							
Lead	1.1	ug/L	1.0	1		06/21/19 04:2	23 7439-92-1			



Project: CENTRAL BUCKS SCHOOL(TAMANEND)

Sample: T310	Lab ID: 7093917019		Collected:	Collected: 06/05/19 04:08			06/12/19 11:00	0 Matrix: Drinking Water			
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	00.8								
Lead	<1.0) ug/L		1.0	1	06/21/19 04:35 7439-92-1					
Sample: T303	Lab ID:	7093917020	Collected:	06/05/1	9 04:07	:07 Received: 06/12/19 11:00 Matrix: Drinking Wat					
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	00.8								
Lead	1.8	3 ug/L		1.0	1		06/21/19 04:	39 7439-92-1			
Sample: T301C	Lab ID:	7093917021	Collected:	06/05/1	9 04:26	6 Received: 06/12/19 11:00 Matrix: Drinking Wat					
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	00.8								
Lead	1.0	6 ug/L		1.0	1		06/21/19 04:4	42 7439-92-1			
Sample: T3012	Lab ID:	7093917022	Collected:	06/05/1	9 03:47	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	00.8								
Lead	12.4	l ug/L		1.0	1		06/21/19 04:4	45 7439-92-1			
Sample: T3014	Lab ID:	7093917023	Collected:	06/05/1	9 03:50	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	00.8								
Lead	3.0) ug/L		1.0	1		06/21/19 04:5	54 7439-92-1			
Sample: T107	Lab ID:	7093917024	Collected:	06/05/1	9 03:42	Received:	06/12/19 11:00	Matrix: Drinking	g Water		
Parameters	Results	Units	Report	Limit	DF	Prepared	Analyzed	CAS No.	Qual		
200.8 MET ICPMS Drinking Water	Analytical	Method: EPA 2	00.8								
Lead	<1.0) ug/L		1.0	1		06/21/19 04:	57 7439-92-1			



Project:	CENTRAL BUCKS SCHOOL(TAMANEND)
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Sample: T104	Lab ID: 7093917025		Collected: 06/05/	19 03:39	Received: 06	6/12/19 11:00 I	Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth	nod: EPA 2	00.8					
Lead	2.5	ug/L	1.0	1		06/21/19 05:00) 7439-92-1	
Sample: T105	Lab ID: 709	3917026	Collected: 06/05/	19 03:40	Received: 06	6/12/19 11:00 I	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth	nod: EPA 2	00.8					
Lead	1.3	ug/L	1.0	1		06/21/19 05:03	3 7439-92-1	
Sample: TMO	Lab ID: 7093	3917027	Collected: 06/05/	19 03:33	Received: 06	6/12/19 11:00 I	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water	Analytical Meth	nod: EPA 2	00.8					
Lead	1.6	ug/L	1.0	1		06/21/19 05:06	6 7439-92-1	