

June 25, 2020

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  
Warwick Elementary School  
1340 Almshouse Road  
Jamison, PA 18929  
Bucks County, Pennsylvania**

Dear Mr. Nickerson:

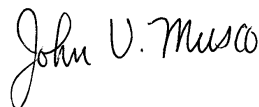
This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. fountains, sink faucets, etc.) on June 3, 2020 as identified by the Central Bucks School District facility inventory. 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 location:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Rm 25	W25-20	19.0 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: B. Lambing - Langan

NJ Certificate of Authorization No. 24GA27996400

\\Langan.com\data\DYL\data4\200130402\Project Data\Record Data\Reports\Day 5\_6-3-2020\_Bridge Valley\_Warwick\_Jamison\Warwick\Warwick\_Lead\_Sampling\_Memo.docx

June 16, 2020

Bill Lambing  
Langan Engineering  
2700 Kelly Road  
Suite 200  
Warrington, PA 18976

RE: Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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

Sincerely,



Sophia Sparkes  
sophia.sparkes@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: CENTRAL BUCKS DIST (WARWICK)

Pace Project No.: 70133554

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### **Pace Analytical Services Long Island**

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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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Sample: W1-20		Lab ID: 70133554001	Collected: 06/03/20 08:06	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/12/20 21:11	7439-92-1	
Sample: W2-20		Lab ID: 70133554002	Collected: 06/03/20 08:07	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/12/20 21:14	7439-92-1	
Sample: W1F-20		Lab ID: 70133554003	Collected: 06/03/20 08:08	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/12/20 21:20	7439-92-1	
Sample: W3-20		Lab ID: 70133554004	Collected: 06/03/20 08:07	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/12/20 21:26	7439-92-1	
Sample: W4-20		Lab ID: 70133554005	Collected: 06/03/20 08:06	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/12/20 21:34	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)

Pace Project No.: 70133554

Sample: W5-20	Lab ID: 70133554006	Collected: 06/03/20 08:10	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>2.9</b>	ug/L	1.0	1		06/12/20 21:40	7439-92-1	

Sample: W6-20	Lab ID: 70133554007	Collected: 06/03/20 08:10	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>8.0</b>	ug/L	1.0	1		06/12/20 21:42	7439-92-1	

Sample: W7-20	Lab ID: 70133554008	Collected: 06/03/20 08:11	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>1.8</b>	ug/L	1.0	1		06/12/20 21:47	7439-92-1	

Sample: W8-20	Lab ID: 70133554009	Collected: 06/03/20 08:11	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		06/12/20 21:53	7439-92-1	

Sample: W41F-20	Lab ID: 70133554010	Collected: 06/03/20 08:12	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		06/12/20 22:05	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Sample: W41-20	Lab ID: 70133554011	Collected: 06/03/20 08:12	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>2.0</b>	ug/L	1.0	1		06/12/20 22:08	7439-92-1	

Sample: WK-20	Lab ID: 70133554012	Collected: 06/03/20 08:13	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		06/12/20 22:12	7439-92-1	

Sample: W11-20	Lab ID: 70133554013	Collected: 06/03/20 08:17	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		06/12/20 22:27	7439-92-1	

Sample: W12-20	Lab ID: 70133554014	Collected: 06/03/20 08:17	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>1.6</b>	ug/L	1.0	1		06/12/20 22:28	7439-92-1	

Sample: W13-20	Lab ID: 70133554015	Collected: 06/03/20 08:17	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>3.2</b>	ug/L	1.0	1		06/12/20 22:34	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Sample: W14-20	Lab ID: 70133554016	Collected: 06/03/20 08:16	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.6	ug/L	1.0	1		06/12/20 22:40	7439-92-1	

Sample: W15-20	Lab ID: 70133554017	Collected: 06/03/20 08:15	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 22:51	7439-92-1	

Sample: W16-20	Lab ID: 70133554018	Collected: 06/03/20 08:15	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.3	ug/L	1.0	1		06/12/20 22:53	7439-92-1	

Sample: W18-20	Lab ID: 70133554019	Collected: 06/03/20 08:25	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.8	ug/L	1.0	1		06/16/20 11:54	7439-92-1	

Sample: W19-20	Lab ID: 70133554020	Collected: 06/03/20 08:25	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.9	ug/L	1.0	1		06/16/20 11:55	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Sample: W21-20		Lab ID: 70133554021	Collected: 06/03/20 08:29	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	2.8	ug/L	1.0	1		06/16/20 11:56	7439-92-1	
Sample: W22-20		Lab ID: 70133554022	Collected: 06/03/20 08:30	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/16/20 11:57	7439-92-1	
Sample: W23-20		Lab ID: 70133554023	Collected: 06/03/20 08:31	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/16/20 11:58	7439-92-1	
Sample: W24-20		Lab ID: 70133554024	Collected: 06/03/20 08:32	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	1.8	ug/L	1.0	1		06/16/20 11:59	7439-92-1	
Sample: W25-20		Lab ID: 70133554025	Collected: 06/03/20 08:33	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	19.0	ug/L	1.0	1		06/16/20 12:00	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Sample: W26-20		Lab ID: 70133554026	Collected: 06/03/20 08:33	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	3.1	ug/L	1.0	1		06/16/20 12:01	7439-92-1	
Sample: W27-20		Lab ID: 70133554027	Collected: 06/03/20 08:32	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	1.9	ug/L	1.0	1		06/16/20 12:06	7439-92-1	
Sample: W28-20		Lab ID: 70133554028	Collected: 06/03/20 08:31	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	1.9	ug/L	1.0	1		06/16/20 12:07	7439-92-1	
Sample: W29-20		Lab ID: 70133554029	Collected: 06/03/20 08:30	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	1.2	ug/L	1.0	1		06/16/20 12:08	7439-92-1	
Sample: W30-20		Lab ID: 70133554030	Collected: 06/03/20 08:29	Received: 06/05/20 10:10	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>		Analytical Method: EPA 200.8 Pace Analytical Services - Melville						
Lead	<1.0	ug/L	1.0	1		06/16/20 12:09	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)

Pace Project No.: 70133554

Sample: W31-20	Lab ID: 70133554031	Collected: 06/03/20 08:28	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.2	ug/L	1.0	1		06/16/20 12:10	7439-92-1	

Sample: W40-20	Lab ID: 70133554032	Collected: 06/03/20 08:29	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.5	ug/L	1.0	1		06/16/20 12:11	7439-92-1	

Sample: W40F-20	Lab ID: 70133554033	Collected: 06/03/20 08:28	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/16/20 12:12	7439-92-1	

Sample: W32-20	Lab ID: 70133554034	Collected: 06/03/20 08:27	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/16/20 12:14	7439-92-1	

Sample: W33-20	Lab ID: 70133554035	Collected: 06/03/20 08:26	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	7.1	ug/L	1.0	1		06/16/20 12:15	7439-92-1	

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (WARWICK)

Pace Project No.: 70133554

Sample: WNF-20	Lab ID: 70133554036	Collected: 06/03/20 08:24	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/16/20 12:19	7439-92-1	

Sample: WNE-20	Lab ID: 70133554037	Collected: 06/03/20 08:23	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/16/20 12:22	7439-92-1	

Sample: WN1-20	Lab ID: 70133554038	Collected: 06/03/20 08:23	Received: 06/05/20 10:10	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/16/20 12:23	7439-92-1	

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

QC Batch: 164094 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70133554001, 70133554002, 70133554003, 70133554004, 70133554005, 70133554006, 70133554007, 70133554008

METHOD BLANK: 791610 Matrix: Water  
Associated Lab Samples: 70133554001, 70133554002, 70133554003, 70133554004, 70133554005, 70133554006, 70133554007, 70133554008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/12/20 21:01	

LABORATORY CONTROL SAMPLE: 791611

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.7	99	85-115	

MATRIX SPIKE SAMPLE: 791613

Parameter	Units	70133553046 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.8	4	7.0	105	70-130	

MATRIX SPIKE SAMPLE: 791615

Parameter	Units	70133553052 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	3.7	4	7.8	103	70-130	

SAMPLE DUPLICATE: 791612

Parameter	Units	70133553046 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	2.8	2.7	1	

SAMPLE DUPLICATE: 791614

Parameter	Units	70133553052 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	3.7	3.7	0	

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.

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

QC Batch: 164095 Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70133554009, 70133554010, 70133554011, 70133554012, 70133554013, 70133554014, 70133554015, 70133554016

METHOD BLANK: 791620 Matrix: Water  
Associated Lab Samples: 70133554009, 70133554010, 70133554011, 70133554012, 70133554013, 70133554014, 70133554015, 70133554016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/12/20 21:50	

LABORATORY CONTROL SAMPLE: 791621

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.1	98	85-115	

MATRIX SPIKE SAMPLE: 791623

Parameter	Units	70133554009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.3	103	70-130	

MATRIX SPIKE SAMPLE: 791625

Parameter	Units	70133553064 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.7	103	70-130	

SAMPLE DUPLICATE: 791622

Parameter	Units	70133554009 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791624

Parameter	Units	70133553064 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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**QUALITY CONTROL DATA**

Project: CENTRAL BUCKS DIST (WARWICK)

Pace Project No.: 70133554

QC Batch:	164096	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
		Laboratory:	Pace Analytical Services - Melville
Associated Lab Samples:	70133554017, 70133554018, 70133554019, 70133554020, 70133554021, 70133554022, 70133554023, 70133554024, 70133554025, 70133554026, 70133554027, 70133554028, 70133554029, 70133554030, 70133554031, 70133554032, 70133554033, 70133554034, 70133554035		

METHOD BLANK:	791631	Matrix:	Water
Associated Lab Samples:	70133554017, 70133554018, 70133554019, 70133554020, 70133554021, 70133554022, 70133554023, 70133554024, 70133554025, 70133554026, 70133554027, 70133554028, 70133554029, 70133554030, 70133554031, 70133554032, 70133554033, 70133554034, 70133554035		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/12/20 22:43	

LABORATORY CONTROL SAMPLE: 791633

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.3	99	85-115	

MATRIX SPIKE SAMPLE: 791635

Parameter	Units	70133553070 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.9	101	70-130	

MATRIX SPIKE SAMPLE: 791637

Parameter	Units	70133554026 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	3.1	4	7.3	105	70-130	

SAMPLE DUPLICATE: 791634

Parameter	Units	70133553070 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791636

Parameter	Units	70133554026 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	3.1	3.0	1	

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

QC Batch: 164097      Analysis Method: EPA 200.8  
QC Batch Method: EPA 200.8      Analysis Description: 200.8 MET No Prep Drinking Water  
Laboratory: Pace Analytical Services - Melville  
Associated Lab Samples: 70133554036, 70133554037, 70133554038

METHOD BLANK: 791643      Matrix: Water  
Associated Lab Samples: 70133554036, 70133554037, 70133554038

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/16/20 12:17	

LABORATORY CONTROL SAMPLE: 791644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	51.5	103	85-115	

MATRIX SPIKE SAMPLE: 791646

Parameter	Units	70133554036 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.2	105	70-130	

SAMPLE DUPLICATE: 791645

Parameter	Units	70133554036 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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## QUALIFIERS

Project: CENTRAL BUCKS DIST (WARWICK)

Pace Project No.: 70133554

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### 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.

TNTC - Too Numerous To Count

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS DIST (WARWICK)  
Pace Project No.: 70133554

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70133554001	W1-20	EPA 200.8	164094		
70133554002	W2-20	EPA 200.8	164094		
70133554003	W1F-20	EPA 200.8	164094		
70133554004	W3-20	EPA 200.8	164094		
70133554005	W4-20	EPA 200.8	164094		
70133554006	W5-20	EPA 200.8	164094		
70133554007	W6-20	EPA 200.8	164094		
70133554008	W7-20	EPA 200.8	164094		
70133554009	W8-20	EPA 200.8	164095		
70133554010	W41F-20	EPA 200.8	164095		
70133554011	W41-20	EPA 200.8	164095		
70133554012	WK-20	EPA 200.8	164095		
70133554013	W11-20	EPA 200.8	164095		
70133554014	W12-20	EPA 200.8	164095		
70133554015	W13-20	EPA 200.8	164095		
70133554016	W14-20	EPA 200.8	164095		
70133554017	W15-20	EPA 200.8	164096		
70133554018	W16-20	EPA 200.8	164096		
70133554019	W18-20	EPA 200.8	164096		
70133554020	W19-20	EPA 200.8	164096		
70133554021	W21-20	EPA 200.8	164096		
70133554022	W22-20	EPA 200.8	164096		
70133554023	W23-20	EPA 200.8	164096		
70133554024	W24-20	EPA 200.8	164096		
70133554025	W25-20	EPA 200.8	164096		
70133554026	W26-20	EPA 200.8	164096		
70133554027	W27-20	EPA 200.8	164096		
70133554028	W28-20	EPA 200.8	164096		
70133554029	W29-20	EPA 200.8	164096		
70133554030	W30-20	EPA 200.8	164096		
70133554031	W31-20	EPA 200.8	164096		
70133554032	W40-20	EPA 200.8	164096		
70133554033	W40F-20	EPA 200.8	164096		
70133554034	W32-20	EPA 200.8	164096		
70133554035	W33-20	EPA 200.8	164096		
70133554036	WNF-20	EPA 200.8	164097		
70133554037	WNE-20	EPA 200.8	164097		
70133554038	WN1-20	EPA 200.8	164097		

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