

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
Tohickon Middle School
5051 Old Easton Road
Doylestown, PA 18902
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 2, 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:

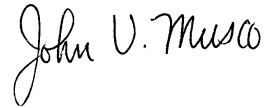
<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Nurses office	TNB-20	15.3 ug/L

Also, as requested by CBSD, below is a location with a lead result above 10 ug/L, but below Pennsylvania Action Level of 15 ug/L:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Nurses office	TNA-20	13.7 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 4_6-2-2020_Toehickon_Titus_Barclay\Toehickon\Toehickon_Lead_Sampling_Memo.docx

June 12, 2020

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

RE: Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

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 SCH (TOHICKON)

Pace Project No.: 70133551

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: TGLR-20	Lab ID: 70133551001	Collected: 06/02/20 06:10	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 15:50	7439-92-1	

Sample: TBLR-20	Lab ID: 70133551002	Collected: 06/02/20 06:12	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	2.3	ug/L	1.0	1		06/12/20 15:51	7439-92-1	

Sample: T511F-20	Lab ID: 70133551003	Collected: 06/02/20 06:15	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 15:54	7439-92-1	

Sample: T511-20	Lab ID: 70133551004	Collected: 06/02/20 06:16	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	4.6	ug/L	1.0	1		06/12/20 15:57	7439-92-1	

Sample: TKWS-20	Lab ID: 70133551005	Collected: 06/02/20 06:06	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	4.0	ug/L	1.0	1		06/12/20 15:58	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: TKHS-20	Lab ID: 70133551006	Collected: 06/02/20 06:05	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	3.9	ug/L	1.0	1		06/12/20 15:59	7439-92-1	
Sample: TCAF-20	Lab ID: 70133551007	Collected: 06/02/20 06:29	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	1.2	ug/L	1.0	1		06/12/20 16:01	7439-92-1	
Sample: TFAC-20	Lab ID: 70133551008	Collected: 06/02/20 06:31	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	1.8	ug/L	1.0	1		06/12/20 16:02	7439-92-1	
Sample: T408A-20	Lab ID: 70133551009	Collected: 06/02/20 06:36	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	3.0	ug/L	1.0	1		06/11/20 20:46	7439-92-1	
Sample: T408B-20	Lab ID: 70133551010	Collected: 06/02/20 06:36	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 20:48	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: T408C-20	Lab ID: 70133551011	Collected: 06/02/20 06:37	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	2.8	ug/L	1.0	1		06/11/20 20:49	7439-92-1	
Sample: T408D-20	Lab ID: 70133551012	Collected: 06/02/20 06:37	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	2.3	ug/L	1.0	1		06/11/20 20:53	7439-92-1	
Sample: T408E-20	Lab ID: 70133551013	Collected: 06/02/20 06:38	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	3.4	ug/L	1.0	1		06/11/20 20:55	7439-92-1	
Sample: T408F-20	Lab ID: 70133551014	Collected: 06/02/20 06:38	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	2.4	ug/L	1.0	1		06/11/20 20:59	7439-92-1	
Sample: T116A-20	Lab ID: 70133551015	Collected: 06/02/20 06:43	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:00	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: T116B-20	Lab ID: 70133551016	Collected: 06/02/20 06:43	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:02	7439-92-1	

Sample: T126A-20	Lab ID: 70133551017	Collected: 06/02/20 06:45	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:09	7439-92-1	

Sample: T126B-20	Lab ID: 70133551018	Collected: 06/02/20 06:45	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:11	7439-92-1	

Sample: TGS-20	Lab ID: 70133551019	Collected: 06/02/20 06:53	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	3.0	ug/L	1.0	1		06/11/20 21:12	7439-92-1	

Sample: TNA-20	Lab ID: 70133551020	Collected: 06/02/20 07:17	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	13.7	ug/L	1.0	1		06/11/20 21:14	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: TNB-20	Lab ID: 70133551021	Collected: 06/02/20 07:18	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	15.3	ug/L	1.0	1		06/11/20 21:16	7439-92-1	

Sample: TNC-20	Lab ID: 70133551022	Collected: 06/02/20 07:18	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	6.6	ug/L	1.0	1		06/11/20 21:17	7439-92-1	

Sample: TNF-20	Lab ID: 70133551023	Collected: 06/02/20 06:49	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:23	7439-92-1	

Sample: TLS-20	Lab ID: 70133551024	Collected: 06/02/20 06:58	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	3.5	ug/L	1.0	1		06/11/20 21:25	7439-92-1	

Sample: TMO-20	Lab ID: 70133551025	Collected: 06/02/20 07:01	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	1.7	ug/L	1.0	1		06/11/20 21:26	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: TEA-20	Lab ID: 70133551026	Collected: 06/02/20 06:59	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:27	7439-92-1	

Sample: TEB-20	Lab ID: 70133551027	Collected: 06/02/20 06:59	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:29	7439-92-1	

Sample: T203A-20	Lab ID: 70133551028	Collected: 06/02/20 07:23	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:31	7439-92-1	

Sample: T203B-20	Lab ID: 70133551029	Collected: 06/02/20 07:23	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/11/20 21:35	7439-92-1	

Sample: T212-20	Lab ID: 70133551030	Collected: 06/02/20 07:22	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	9.0	ug/L	1.0	1		06/11/20 21:39	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)

Pace Project No.: 70133551

Sample: T213C-20	Lab ID: 70133551031	Collected: 06/02/20 07:09	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:03	7439-92-1	

Sample: T213D-20	Lab ID: 70133551032	Collected: 06/02/20 07:09	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:05	7439-92-1	

Sample: T222-20	Lab ID: 70133551033	Collected: 06/02/20 07:14	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	2.3	ug/L	1.0	1		06/12/20 16:07	7439-92-1	

Sample: T222A-20	Lab ID: 70133551034	Collected: 06/02/20 07:12	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:09	7439-92-1	

Sample: T222B-20	Lab ID: 70133551035	Collected: 06/02/20 07:12	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:14	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

Sample: T301A-20	Lab ID: 70133551036	Collected: 06/02/20 07:31	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	1.7	ug/L	1.0	1		06/12/20 16:16	7439-92-1	
Sample: T301B-20	Lab ID: 70133551037	Collected: 06/02/20 07:31	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:18	7439-92-1	
Sample: T311C-20	Lab ID: 70133551038	Collected: 06/02/20 07:26	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:19	7439-92-1	
Sample: T311D-20	Lab ID: 70133551039	Collected: 06/02/20 07:26	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		06/12/20 16:20	7439-92-1	
Sample: T321-20	Lab ID: 70133551040	Collected: 06/02/20 07:29	Received: 06/05/20 10:10	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 Pace Analytical Services - Melville							
Lead	1.9	ug/L	1.0	1		06/12/20 16:26	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCH (TOHICKON)

Pace Project No.: 70133551

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Sample: TNBR-20								
Lab ID: 70133551041								
Collected: 06/02/20 06:07								
Received: 06/05/20 10:10								
Matrix: Drinking Water								
200.8 MET ICPMS Drinking Water								
Analytical Method: EPA 200.8								
Pace Analytical Services - Melville								
Lead	3.3	ug/L	1.0	1		06/12/20 16:30	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

QC Batch: 164086	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: 70133551001, 70133551002

METHOD BLANK: 791532 Matrix: Water
Associated Lab Samples: 70133551001, 70133551002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 20:05	

LABORATORY CONTROL SAMPLE: 791533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	51.0	102	85-115	

MATRIX SPIKE SAMPLE: 791535

Parameter	Units	70133550048 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.3	105	70-130	

MATRIX SPIKE SAMPLE: 791537

Parameter	Units	70133550053 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.5	112	70-130	

SAMPLE DUPLICATE: 791534

Parameter	Units	70133550048 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791536

Parameter	Units	70133550053 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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 SCH (TOHICKON)
Pace Project No.: 70133551

QC Batch: 164087 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: 70133551003, 70133551004, 70133551005, 70133551006, 70133551007, 70133551008, 70133551009, 70133551010, 70133551011, 70133551012, 70133551013, 70133551014, 70133551015, 70133551016

METHOD BLANK: 791544 Matrix: Water
Associated Lab Samples: 70133551003, 70133551004, 70133551005, 70133551006, 70133551007, 70133551008, 70133551009, 70133551010, 70133551011, 70133551012, 70133551013, 70133551014, 70133551015, 70133551016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/12/20 15:52	

LABORATORY CONTROL SAMPLE: 791545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.7	101	85-115	

MATRIX SPIKE SAMPLE: 791547

Parameter	Units	70133551003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	5.1	112	70-130	

MATRIX SPIKE SAMPLE: 791549

Parameter	Units	70133552002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	5.1	107	70-130	

SAMPLE DUPLICATE: 791546

Parameter	Units	70133551003 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791548

Parameter	Units	70133552002 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCH (TOHICKON)

Pace Project No.: 70133551

QC Batch:	164088	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:	70133551017, 70133551018, 70133551019, 70133551020, 70133551021, 70133551022, 70133551023, 70133551024, 70133551025, 70133551026, 70133551027, 70133551028		

METHOD BLANK:	791556	Matrix:	Water
Associated Lab Samples:	70133551017, 70133551018, 70133551019, 70133551020, 70133551021, 70133551022, 70133551023, 70133551024, 70133551025, 70133551026, 70133551027, 70133551028		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 21:03	

LABORATORY CONTROL SAMPLE: 791557						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.5	101	85-115	

MATRIX SPIKE SAMPLE: 791559							
Parameter	Units	70133552007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.5	4	7.0	111	70-130	

MATRIX SPIKE SAMPLE: 791561							
Parameter	Units	70133552011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.1	4	6.5	109	70-130	

SAMPLE DUPLICATE: 791558					
Parameter	Units	70133552007 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	2.5	2.5	2	

SAMPLE DUPLICATE: 791560					
Parameter	Units	70133552011 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	2.1	2.1	0	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

QC Batch:	164090	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: 70133551029, 70133551030, 70133551031, 70133551032, 70133551033, 70133551034, 70133551035, 70133551036, 70133551037, 70133551038, 70133551039

METHOD BLANK: 791575 Matrix: Water
Associated Lab Samples: 70133551029, 70133551030, 70133551031, 70133551032, 70133551033, 70133551034, 70133551035, 70133551036, 70133551037, 70133551038, 70133551039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/11/20 21:33	

LABORATORY CONTROL SAMPLE: 791576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.6	101	85-115	

MATRIX SPIKE SAMPLE: 791578

Parameter	Units	70133551029 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	5.3	108	70-130	

MATRIX SPIKE SAMPLE: 791580

Parameter	Units	70133551034 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	5.0	113	70-130	

SAMPLE DUPLICATE: 791577

Parameter	Units	70133551029 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 791579

Parameter	Units	70133551034 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCH (TOHICKON)
Pace Project No.: 70133551

QC Batch: 164091 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: 70133551040, 70133551041

METHOD BLANK: 791582 Matrix: Water
Associated Lab Samples: 70133551040, 70133551041

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/12/20 16:24	

LABORATORY CONTROL SAMPLE: 791583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.6	99	85-115	

MATRIX SPIKE SAMPLE: 791585

Parameter	Units	70133551040 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.9	4	6.3	111	70-130	

MATRIX SPIKE SAMPLE: 791587

Parameter	Units	70133552032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.6	116	70-130	

SAMPLE DUPLICATE: 791584

Parameter	Units	70133551040 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.9	1.9	1	

SAMPLE DUPLICATE: 791586

Parameter	Units	70133552032 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

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QUALIFIERS

Project: CENTRAL BUCKS SCH (TOHICKON)

Pace Project No.: 70133551

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 SCH (TOHICKON)
Pace Project No.: 70133551

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70133551001	TGLR-20	EPA 200.8	164086		
70133551002	TBLR-20	EPA 200.8	164086		
70133551003	T511F-20	EPA 200.8	164087		
70133551004	T511-20	EPA 200.8	164087		
70133551005	TKWS-20	EPA 200.8	164087		
70133551006	TKHS-20	EPA 200.8	164087		
70133551007	TCAF-20	EPA 200.8	164087		
70133551008	TFAC-20	EPA 200.8	164087		
70133551009	T408A-20	EPA 200.8	164087		
70133551010	T408B-20	EPA 200.8	164087		
70133551011	T408C-20	EPA 200.8	164087		
70133551012	T408D-20	EPA 200.8	164087		
70133551013	T408E-20	EPA 200.8	164087		
70133551014	T408F-20	EPA 200.8	164087		
70133551015	T116A-20	EPA 200.8	164087		
70133551016	T116B-20	EPA 200.8	164087		
70133551017	T126A-20	EPA 200.8	164088		
70133551018	T126B-20	EPA 200.8	164088		
70133551019	TGS-20	EPA 200.8	164088		
70133551020	TNA-20	EPA 200.8	164088		
70133551021	TNB-20	EPA 200.8	164088		
70133551022	TNC-20	EPA 200.8	164088		
70133551023	TNF-20	EPA 200.8	164088		
70133551024	TLS-20	EPA 200.8	164088		
70133551025	TMO-20	EPA 200.8	164088		
70133551026	TEA-20	EPA 200.8	164088		
70133551027	TEB-20	EPA 200.8	164088		
70133551028	T203A-20	EPA 200.8	164088		
70133551029	T203B-20	EPA 200.8	164090		
70133551030	T212-20	EPA 200.8	164090		
70133551031	T213C-20	EPA 200.8	164090		
70133551032	T213D-20	EPA 200.8	164090		
70133551033	T222-20	EPA 200.8	164090		
70133551034	T222A-20	EPA 200.8	164090		
70133551035	T222B-20	EPA 200.8	164090		
70133551036	T301A-20	EPA 200.8	164090		
70133551037	T301B-20	EPA 200.8	164090		
70133551038	T311C-20	EPA 200.8	164090		
70133551039	T311D-20	EPA 200.8	164090		
70133551040	T321-20	EPA 200.8	164091		
70133551041	TNBR-20	EPA 200.8	164091		

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