

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
Barclay Elementary School
2015 Palomino Road
Warrington, PA 18976
Bucks County, Pennsylvania**

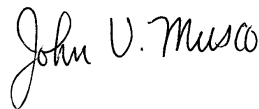
Dear Mr. Nickerson:

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.) 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).

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\DYLD\data4\200130402\Project Data\Record Data\Reports\Day 4_6-2-2020_Tohickon_Titus_Barclay\Barclay\Barclay_Lead_Sampling_Memo.docx

June 12, 2020

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

RE: Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

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 (BARCLAY)

Pace Project No.: 70133552

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 DIST (BARCLAY)
Pace Project No.: 70133552

Sample: B401-20	Lab ID: 70133552001	Collected: 06/02/20 10:10	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		06/11/20 20:47	7439-92-1	

Sample: B402-20	Lab ID: 70133552002	Collected: 06/02/20 10:10	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		06/11/20 20:50	7439-92-1	

Sample: B403-20	Lab ID: 70133552003	Collected: 06/02/20 10:11	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	1.3	ug/L	1.0	1		06/11/20 20:54	7439-92-1	

Sample: B404-20	Lab ID: 70133552004	Collected: 06/02/20 10:12	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	1.2	ug/L	1.0	1		06/11/20 20:57	7439-92-1	

Sample: B405-20	Lab ID: 70133552005	Collected: 06/02/20 10:14	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	<1.0	ug/L	1.0	1		06/11/20 20:58	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)

Pace Project No.: 70133552

Sample: B406-20	Lab ID: 70133552006	Collected: 06/02/20 10:15	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		06/11/20 21:01	7439-92-1	

Sample: B407-20	Lab ID: 70133552007	Collected: 06/02/20 10:16	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	2.5	ug/L	1.0	1		06/11/20 21:05	7439-92-1	

Sample: B408-20	Lab ID: 70133552008	Collected: 06/02/20 10:17	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	2.7	ug/L	1.0	1		06/11/20 21:10	7439-92-1	

Sample: B410-20	Lab ID: 70133552009	Collected: 06/02/20 10:18	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	3.3	ug/L	1.0	1		06/11/20 21:13	7439-92-1	

Sample: B411-20	Lab ID: 70133552010	Collected: 06/02/20 10:20	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	3.8	ug/L	1.0	1		06/11/20 21:15	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

Sample: B412-20	Lab ID: 70133552011	Collected: 06/02/20 10:21	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	2.1	ug/L	1.0	1		06/11/20 21:20	7439-92-1	

Sample: B413-20	Lab ID: 70133552012	Collected: 06/02/20 10:22	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	2.9	ug/L	1.0	1		06/11/20 21:24	7439-92-1	

Sample: B414-20	Lab ID: 70133552013	Collected: 06/02/20 10:23	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	1.8	ug/L	1.0	1		06/11/20 21:28	7439-92-1	

Sample: B415-20	Lab ID: 70133552014	Collected: 06/02/20 10:25	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	2.1	ug/L	1.0	1		06/11/20 21:32	7439-92-1	

Sample: B416-20	Lab ID: 70133552015	Collected: 06/02/20 10:25	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		06/11/20 21:38	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

Sample: B417-20	Lab ID: 70133552016	Collected: 06/02/20 10:26	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	3.1	ug/L	1.0	1		06/11/20 21:39	7439-92-1	
Sample: B418-20	Lab ID: 70133552017	Collected: 06/02/20 10:27	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	2.6	ug/L	1.0	1		06/12/20 16:04	7439-92-1	
Sample: B420-20	Lab ID: 70133552018	Collected: 06/02/20 10:29	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	2.2	ug/L	1.0	1		06/12/20 16:06	7439-92-1	
Sample: B421-20	Lab ID: 70133552019	Collected: 06/02/20 10:29	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	1.7	ug/L	1.0	1		06/12/20 16:08	7439-92-1	
Sample: B422-20	Lab ID: 70133552020	Collected: 06/02/20 10:30	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	3.8	ug/L	1.0	1		06/12/20 16:15	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

Sample: B423-20	Lab ID: 70133552021	Collected: 06/02/20 10:31	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	2.1	ug/L	1.0	1		06/12/20 16:17	7439-92-1	
Sample: B425-20	Lab ID: 70133552022	Collected: 06/02/20 10:33	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	1.6	ug/L	1.0	1		06/12/20 16:18	7439-92-1	
Sample: B427-20	Lab ID: 70133552023	Collected: 06/02/20 10:34	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 16:21	7439-92-1	
Sample: B428-20	Lab ID: 70133552024	Collected: 06/02/20 10:36	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	2.8	ug/L	1.0	1		06/12/20 16:29	7439-92-1	
Sample: B429-20	Lab ID: 70133552025	Collected: 06/02/20 10:36	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	1.3	ug/L	1.0	1		06/12/20 16:31	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

Sample: B430-20	Lab ID: 70133552026	Collected: 06/02/20 10:37	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	2.9	ug/L	1.0	1		06/12/20 16:32	7439-92-1	
Sample: B431-20	Lab ID: 70133552027	Collected: 06/02/20 10:38	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	1.4	ug/L	1.0	1		06/12/20 16:33	7439-92-1	
Sample: B432-20	Lab ID: 70133552028	Collected: 06/02/20 10:38	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	2.6	ug/L	1.0	1		06/12/20 16:35	7439-92-1	
Sample: B105A-20	Lab ID: 70133552029	Collected: 06/02/20 10:06	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	7.2	ug/L	1.0	1		06/12/20 16:36	7439-92-1	
Sample: B104A-20	Lab ID: 70133552030	Collected: 06/02/20 10:01	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	2.4	ug/L	1.0	1		06/12/20 16:37	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

Sample: B104B-20	Lab ID: 70133552031	Collected: 06/02/20 10:02	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	2.1	ug/L	1.0	1		06/12/20 16:38	7439-92-1	

Sample: BCF-20	Lab ID: 70133552032	Collected: 06/02/20 10:04	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 16:39	7439-92-1	

Sample: B101A-20	Lab ID: 70133552033	Collected: 06/02/20 09:58	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	2.6	ug/L	1.0	1		06/12/20 16:42	7439-92-1	

Sample: B201-20	Lab ID: 70133552034	Collected: 06/02/20 09:55	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	1.1	ug/L	1.0	1		06/12/20 16:43	7439-92-1	

Sample: B202-20	Lab ID: 70133552035	Collected: 06/02/20 09:54	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	7.6	ug/L	1.0	1		06/12/20 16:44	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS DIST (BARCLAY)

Pace Project No.: 70133552

Sample: B301-20	Lab ID: 70133552036	Collected: 06/02/20 09:52	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 16:47	7439-92-1		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (BARCLAY)

Pace Project No.: 70133552

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: 70133552001, 70133552002, 70133552003, 70133552004, 70133552005, 70133552006

METHOD BLANK: 791544

Matrix: Water

Associated Lab Samples: 70133552001, 70133552002, 70133552003, 70133552004, 70133552005, 70133552006

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 DIST (BARCLAY)
Pace Project No.: 70133552

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: 70133552007, 70133552008, 70133552009, 70133552010, 70133552011, 70133552012, 70133552013, 70133552014

METHOD BLANK: 791556 Matrix: Water
Associated Lab Samples: 70133552007, 70133552008, 70133552009, 70133552010, 70133552011, 70133552012, 70133552013, 70133552014

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 DIST (BARCLAY)

Pace Project No.: 70133552

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: 70133552015, 70133552016, 70133552017, 70133552018, 70133552019, 70133552020, 70133552021, 70133552022, 70133552023

METHOD BLANK: 791575

Matrix: Water

Associated Lab Samples: 70133552015, 70133552016, 70133552017, 70133552018, 70133552019, 70133552020, 70133552021, 70133552022, 70133552023

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		

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS DIST (BARCLAY)
Pace Project No.: 70133552

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: 70133552024, 70133552025, 70133552026, 70133552027, 70133552028, 70133552029, 70133552030, 70133552031, 70133552032, 70133552033, 70133552034, 70133552035, 70133552036

METHOD BLANK: 791582 Matrix: Water
Associated Lab Samples: 70133552024, 70133552025, 70133552026, 70133552027, 70133552028, 70133552029, 70133552030, 70133552031, 70133552032, 70133552033, 70133552034, 70133552035, 70133552036

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 DIST (BARCLAY)

Pace Project No.: 70133552

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 (BARCLAY)
Pace Project No.: 70133552

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70133552001	B401-20	EPA 200.8	164087		
70133552002	B402-20	EPA 200.8	164087		
70133552003	B403-20	EPA 200.8	164087		
70133552004	B404-20	EPA 200.8	164087		
70133552005	B405-20	EPA 200.8	164087		
70133552006	B406-20	EPA 200.8	164087		
70133552007	B407-20	EPA 200.8	164088		
70133552008	B408-20	EPA 200.8	164088		
70133552009	B410-20	EPA 200.8	164088		
70133552010	B411-20	EPA 200.8	164088		
70133552011	B412-20	EPA 200.8	164088		
70133552012	B413-20	EPA 200.8	164088		
70133552013	B414-20	EPA 200.8	164088		
70133552014	B415-20	EPA 200.8	164088		
70133552015	B416-20	EPA 200.8	164090		
70133552016	B417-20	EPA 200.8	164090		
70133552017	B418-20	EPA 200.8	164090		
70133552018	B420-20	EPA 200.8	164090		
70133552019	B421-20	EPA 200.8	164090		
70133552020	B422-20	EPA 200.8	164090		
70133552021	B423-20	EPA 200.8	164090		
70133552022	B425-20	EPA 200.8	164090		
70133552023	B427-20	EPA 200.8	164090		
70133552024	B428-20	EPA 200.8	164091		
70133552025	B429-20	EPA 200.8	164091		
70133552026	B430-20	EPA 200.8	164091		
70133552027	B431-20	EPA 200.8	164091		
70133552028	B432-20	EPA 200.8	164091		
70133552029	B105A-20	EPA 200.8	164091		
70133552030	B104A-20	EPA 200.8	164091		
70133552031	B104B-20	EPA 200.8	164091		
70133552032	BCF-20	EPA 200.8	164091		
70133552033	B101A-20	EPA 200.8	164091		
70133552034	B201-20	EPA 200.8	164091		
70133552035	B202-20	EPA 200.8	164091		
70133552036	B301-20	EPA 200.8	164091		

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