

July 8, 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
Doyle Elementary School
260 N West Street
Doylestown, PA 18901
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 5, 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:

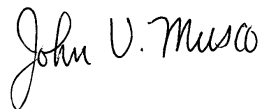
<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
S1	DS1-20	31.7 ug/L

Also, as requested by CBSD, below are a list of locations with lead results above 10 ug/L, but below Pennsylvania Action Level of 15 ug/L:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
S3	DS3-20	13.7 ug/L
N2	DN2-20	10.7 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

Lead in Drinking Water Sampling
Central Bucks School District
Bucks County, Pennsylvania

July 8, 2020
Page 2 of 2

Enclosure

cc: B. Lambing - Langan

NJ Certificate of Authorization No. 24GA27996400

\\langan.com\data\DYL\data4\200130402\Project Data\Record Data\Reports\Day 7_6-5-2020_Doyle_Lenape_West_West Stad\Doyle\Doyle_Lead_Sampling_Memo.docx

July 07, 2020

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

RE: Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 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
- Pace Analytical Services - Ormond Beach

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

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Arizona Certification# AZ0819

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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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SAMPLE ANALYTE COUNT

Project: CENTRAL BUCKS SCHOOL(DOYLE)

Pace Project No.: 70133936

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70133936001	DS1-20	EPA 200.8	AKS	1	PACE-MV
70133936002	DS2-20	EPA 200.8	AKS	1	PACE-MV
70133936003	DS3-20	EPA 200.8	AKS	1	PACE-MV
70133936004	DS4-20	EPA 200.8	AKS	1	PACE-MV
70133936005	DS5-20	EPA 200.8	AKS	1	PACE-MV
70133936006	DS6-20	EPA 200.8	AKS	1	PACE-MV
70133936007	DS7-20	EPA 200.8	AKS	1	PACE-MV
70133936008	DS8-20	EPA 200.8	AKS	1	PACE-MV
70133936009	DS9-20	EPA 200.8	AKS	1	PACE-MV
70133936010	DS10-20	EPA 200.8	AKS	1	PACE-MV
70133936011	DS11-20	EPA 200.8	AKS	1	PACE-MV
70133936012	DS12-20	EPA 200.8	AKS	1	PACE-MV
70133936013	DC35B-20	EPA 200.8	AKS	1	PACE-MV
70133936014	DC35C-20	EPA 200.8	AKS	1	PACE-MV
70133936015	DC34-20	EPA 200.8	AKS	1	PACE-MV
70133936016	DC30-20	EPA 200.8	AKS	1	PACE-MV
70133936017	DG1-20	EPA 200.8	AKS	1	PACE-MV
70133936018	DC16-20	EPA 200.8	AKS	1	PACE-MV
70133936019	DN1-20	EPA 200.8	AKS	1	PACE-MV
70133936020	DN2-20	EPA 200.8	AKS	1	PACE-MV
70133936021	DN3-20	EPA 200.8	AKS	1	PACE-MV
70133936022	DN4-20	EPA 200.8	AKS	1	PACE-MV
70133936023	DN5-20	EPA 200.8	AKS	1	PACE-MV
70133936024	DN6-20	EPA 200.8	AKS	1	PACE-MV
70133936025	DN7-20	EPA 200.8	AKS	1	PACE-MV
70133936026	DN8-20	EPA 200.8	AKS	1	PACE-MV
70133936027	DN9A-20	EPA 200.8	AKS	1	PACE-MV
70133936028	DN9B-20	EPA 200.8	AKS	1	PACE-MV
70133936029	DN10-20	EPA 200.8	SLG	1	PASI-O
70133936030	DN11-20	EPA 200.8	AKS	1	PACE-MV
70133936031	DN12-20	EPA 200.8	AKS	1	PACE-MV
70133936032	DN13-20	EPA 200.8	AKS	1	PACE-MV
70133936033	DN14-20	EPA 200.8	AKS	1	PACE-MV
70133936034	DN17-20	EPA 200.8	AKS	1	PACE-MV

PACE-MV = Pace Analytical Services - Melville

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DS1-20	Lab ID: 70133936001	Collected: 06/05/20 06:40	Received: 06/09/20 10:45	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	31.7	ug/L	1.0	1		06/16/20 14:50	7439-92-1	

Sample: DS2-20	Lab ID: 70133936002	Collected: 06/05/20 06:40	Received: 06/09/20 10:45	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		06/16/20 14:51	7439-92-1	

Sample: DS3-20	Lab ID: 70133936003	Collected: 06/05/20 06:40	Received: 06/09/20 10:45	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		06/16/20 14:52	7439-92-1	

Sample: DS4-20	Lab ID: 70133936004	Collected: 06/05/20 06:41	Received: 06/09/20 10:45	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		06/16/20 14:53	7439-92-1	

Sample: DS5-20	Lab ID: 70133936005	Collected: 06/05/20 06:42	Received: 06/09/20 10:45	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	5.9	ug/L	1.0	1		06/16/20 14:56	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DS6-20	Lab ID: 70133936006	Collected: 06/05/20 06:42	Received: 06/09/20 10:45	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		06/16/20 14:57	7439-92-1	

Sample: DS7-20	Lab ID: 70133936007	Collected: 06/05/20 06:42	Received: 06/09/20 10:45	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		06/16/20 14:58	7439-92-1	

Sample: DS8-20	Lab ID: 70133936008	Collected: 06/05/20 06:42	Received: 06/09/20 10:45	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	4.1	ug/L	1.0	1		06/16/20 14:59	7439-92-1	

Sample: DS9-20	Lab ID: 70133936009	Collected: 06/05/20 06:44	Received: 06/09/20 10:45	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	3.6	ug/L	1.0	1		06/16/20 15:11	7439-92-1	

Sample: DS10-20	Lab ID: 70133936010	Collected: 06/05/20 06:44	Received: 06/09/20 10:45	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	4.1	ug/L	1.0	1		06/16/20 15:12	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DS11-20	Lab ID: 70133936011	Collected: 06/05/20 06:45	Received: 06/09/20 10:45	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	3.7	ug/L	1.0	1		06/16/20 15:13	7439-92-1	
Sample: DS12-20	Lab ID: 70133936012	Collected: 06/05/20 06:45	Received: 06/09/20 10:45	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	5.0	ug/L	1.0	1		06/16/20 15:14	7439-92-1	
Sample: DC35B-20	Lab ID: 70133936013	Collected: 06/05/20 06:37	Received: 06/09/20 10:45	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		06/16/20 15:18	7439-92-1	
Sample: DC35C-20	Lab ID: 70133936014	Collected: 06/05/20 06:37	Received: 06/09/20 10:45	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		06/16/20 15:19	7439-92-1	
Sample: DC34-20	Lab ID: 70133936015	Collected: 06/05/20 06:37	Received: 06/09/20 10:45	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		06/16/20 15:20	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DC30-20	Lab ID: 70133936016	Collected: 06/05/20 06:47	Received: 06/09/20 10:45	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	5.3	ug/L	1.0	1		06/16/20 15:21	7439-92-1	

Sample: DG1-20	Lab ID: 70133936017	Collected: 06/05/20 06:35	Received: 06/09/20 10:45	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		06/16/20 15:22	7439-92-1	

Sample: DC16-20	Lab ID: 70133936018	Collected: 06/05/20 06:48	Received: 06/09/20 10:45	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		06/16/20 15:23	7439-92-1	

Sample: DN1-20	Lab ID: 70133936019	Collected: 06/05/20 06:50	Received: 06/09/20 10:45	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	5.3	ug/L	1.0	1		06/16/20 15:24	7439-92-1	

Sample: DN2-20	Lab ID: 70133936020	Collected: 06/05/20 06:50	Received: 06/09/20 10:45	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	10.7	ug/L	1.0	1		06/16/20 15:25	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DN3-20	Lab ID: 70133936021	Collected: 06/05/20 06:50	Received: 06/09/20 10:45	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		06/16/20 15:26	7439-92-1	

Sample: DN4-20	Lab ID: 70133936022	Collected: 06/05/20 06:52	Received: 06/09/20 10:45	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		06/22/20 18:12	7439-92-1	

Sample: DN5-20	Lab ID: 70133936023	Collected: 06/05/20 06:52	Received: 06/09/20 10:45	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		06/22/20 18:14	7439-92-1	

Sample: DN6-20	Lab ID: 70133936024	Collected: 06/05/20 06:52	Received: 06/09/20 10:45	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		06/22/20 18:15	7439-92-1	

Sample: DN7-20	Lab ID: 70133936025	Collected: 06/05/20 06:53	Received: 06/09/20 10:45	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		06/22/20 18:16	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DN8-20	Lab ID: 70133936026	Collected: 06/05/20 06:53	Received: 06/09/20 10:45	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		06/22/20 18:17	7439-92-1	

Sample: DN9A-20	Lab ID: 70133936027	Collected: 06/05/20 06:55	Received: 06/09/20 10:45	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	6.9	ug/L	1.0	1		06/22/20 18:18	7439-92-1	

Sample: DN9B-20	Lab ID: 70133936028	Collected: 06/05/20 06:56	Received: 06/09/20 10:45	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		06/22/20 18:21	7439-92-1	

Sample: DN10-20	Lab ID: 70133936029	Collected: 06/05/20 06:55	Received: 06/09/20 10:45	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 - Ormond Beach							
Lead	0.0013	mg/L	0.0010	1		07/07/20 08:40	7439-92-1	

Sample: DN11-20	Lab ID: 70133936030	Collected: 06/05/20 06:59	Received: 06/09/20 10:45	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		06/22/20 18:23	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

Sample: DN12-20	Lab ID: 70133936031	Collected: 06/05/20 06:59	Received: 06/09/20 10:45	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		06/22/20 18:24	7439-92-1	

Sample: DN13-20	Lab ID: 70133936032	Collected: 06/05/20 07:00	Received: 06/09/20 10:45	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		06/22/20 18:25	7439-92-1	

Sample: DN14-20	Lab ID: 70133936033	Collected: 06/05/20 07:00	Received: 06/09/20 10:45	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	4.5	ug/L	1.0	1		06/22/20 18:28	7439-92-1	

Sample: DN17-20	Lab ID: 70133936034	Collected: 06/05/20 07:02	Received: 06/09/20 10:45	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		06/22/20 18:29	7439-92-1	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCHOOL(DOYLE)

Pace Project No.: 70133936

QC Batch: 646037	Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8	Analysis Description: 200.8 MET No Prep Drinking Water
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 70133936029

METHOD BLANK: 3512315 Matrix: Water

Associated Lab Samples: 70133936029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/L	<0.0010	0.0010	07/07/20 09:16	

LABORATORY CONTROL SAMPLE: 3512316

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/L	0.05	0.046	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512311 3512312

Parameter	Units	70133936029		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Lead	mg/L	0.0013	0.05	0.05	0.049	0.049	95	95	70-130	0		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3512313 3512314

Parameter	Units	70133940019		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Lead	mg/L	<0.0010	0.05	0.05	0.049	0.047	98	93	70-130	5		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCHOOL(DOYLE)

Pace Project No.: 70133936

QC Batch:	164799	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:	70133936001, 70133936002, 70133936003, 70133936004, 70133936005, 70133936006, 70133936007, 70133936008		

METHOD BLANK:	795343	Matrix:	Water
Associated Lab Samples:	70133936001, 70133936002, 70133936003, 70133936004, 70133936005, 70133936006, 70133936007, 70133936008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/16/20 14:31	

LABORATORY CONTROL SAMPLE: 795344						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	51.6	103	85-115	

MATRIX SPIKE SAMPLE: 795346							
Parameter	Units	70133933037 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	2.0	4	6.7	117	70-130	

MATRIX SPIKE SAMPLE: 795348							
Parameter	Units	70133934007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.8	4	6.7	125	70-130	

SAMPLE DUPLICATE: 795345					
Parameter	Units	70133933037 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	2.0	2.0	0	

SAMPLE DUPLICATE: 795347					
Parameter	Units	70133934007 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.8	1.8	0	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

QC Batch:	164800	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: 70133936009, 70133936010, 70133936011, 70133936012, 70133936013, 70133936014, 70133936015, 70133936016, 70133936017, 70133936018, 70133936019, 70133936020, 70133936021

METHOD BLANK: 795349 Matrix: Water
Associated Lab Samples: 70133936009, 70133936010, 70133936011, 70133936012, 70133936013, 70133936014, 70133936015, 70133936016, 70133936017, 70133936018, 70133936019, 70133936020, 70133936021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/16/20 15:00	

LABORATORY CONTROL SAMPLE: 795350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	52.9	106	85-115	

MATRIX SPIKE SAMPLE: 795352

Parameter	Units	70133537016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.9	122	70-130	

MATRIX SPIKE SAMPLE: 795354

Parameter	Units	70133936012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	5.0	4	9.7	118	70-130	

SAMPLE DUPLICATE: 795351

Parameter	Units	70133537016 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 795353

Parameter	Units	70133936012 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	5.0	5.1	2	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SCHOOL(DOYLE)
Pace Project No.: 70133936

QC Batch:	164914	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: 70133936022, 70133936023, 70133936024, 70133936025, 70133936026, 70133936027, 70133936028, 70133936030, 70133936031, 70133936032, 70133936033, 70133936034

METHOD BLANK: 795856 Matrix: Water
Associated Lab Samples: 70133936022, 70133936023, 70133936024, 70133936025, 70133936026, 70133936027, 70133936028, 70133936030, 70133936031, 70133936032, 70133936033, 70133936034

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	06/22/20 18:10	

LABORATORY CONTROL SAMPLE: 795857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.2	100	85-115	

MATRIX SPIKE SAMPLE: 795859

Parameter	Units	70133936022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.4	4	6.2	118	70-130	

MATRIX SPIKE SAMPLE: 795861

Parameter	Units	70133936032 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.4	4	5.9	115	70-130	

SAMPLE DUPLICATE: 795858

Parameter	Units	70133936022 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.4	1.4	2	

SAMPLE DUPLICATE: 795860

Parameter	Units	70133936032 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.4	1.3	1	

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QUALIFIERS

Project: CENTRAL BUCKS SCHOOL(DOYLE)

Pace Project No.: 70133936

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 SCHOOL(DOYLE)

Pace Project No.: 70133936

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70133936029	DN10-20	EPA 200.8	646037		
70133936001	DS1-20	EPA 200.8	164799		
70133936002	DS2-20	EPA 200.8	164799		
70133936003	DS3-20	EPA 200.8	164799		
70133936004	DS4-20	EPA 200.8	164799		
70133936005	DS5-20	EPA 200.8	164799		
70133936006	DS6-20	EPA 200.8	164799		
70133936007	DS7-20	EPA 200.8	164799		
70133936008	DS8-20	EPA 200.8	164799		
70133936009	DS9-20	EPA 200.8	164800		
70133936010	DS10-20	EPA 200.8	164800		
70133936011	DS11-20	EPA 200.8	164800		
70133936012	DS12-20	EPA 200.8	164800		
70133936013	DC35B-20	EPA 200.8	164800		
70133936014	DC35C-20	EPA 200.8	164800		
70133936015	DC34-20	EPA 200.8	164800		
70133936016	DC30-20	EPA 200.8	164800		
70133936017	DG1-20	EPA 200.8	164800		
70133936018	DC16-20	EPA 200.8	164800		
70133936019	DN1-20	EPA 200.8	164800		
70133936020	DN2-20	EPA 200.8	164800		
70133936021	DN3-20	EPA 200.8	164800		
70133936022	DN4-20	EPA 200.8	164914		
70133936023	DN5-20	EPA 200.8	164914		
70133936024	DN6-20	EPA 200.8	164914		
70133936025	DN7-20	EPA 200.8	164914		
70133936026	DN8-20	EPA 200.8	164914		
70133936027	DN9A-20	EPA 200.8	164914		
70133936028	DN9B-20	EPA 200.8	164914		
70133936030	DN11-20	EPA 200.8	164914		
70133936031	DN12-20	EPA 200.8	164914		
70133936032	DN13-20	EPA 200.8	164914		
70133936033	DN14-20	EPA 200.8	164914		
70133936034	DN17-20	EPA 200.8	164914		

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