

August 4, 2021

Thomas M. Hanna, P.E., LEED AP
Capital Projects Manager
Central Bucks School District
320 West Swamp Road
Doylestown, PA 18901

**Re: Lead in Drinking Water Sample Collection and Reporting
Kutz Elementary School
1950 Turk Road
Doylestown, PA 18901**

Dear Mr. Hanna:

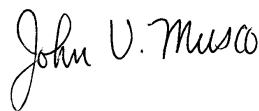
This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. bottle fillers, fountains, sink faucets, etc.) on June 23, 2021 as identified by the Central Bucks School District 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 locations:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Nurses office	KNO_062321	22.4 ug/L
B1	KB1_062321	18.4 ug/L
B2	KB2_062321	21.8 ug/L
B3	KB3_062321	2,260 ug/L
B4	KB4_062321	71.9 ug/L
D2	KD2_062321	72.9 ug/L
D3	KD3_062321	58.7 ug/L
D4	KD4_062321	19.0 ug/L
C1	KC1_062321	63.8 ug/L

A figure 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\200130403\Project Data\Record Data\Reports\Day 2_6-23-2021_Toickon_Gayman_Groveland_Kutz\4th_Kutz
ES\Kutz_Lead_Sampling_Report_2021.docx

July 12, 2021

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

RE: Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on July 06, 2021. 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 (KUTZ)

Pace Project No.: 70179541

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KA1_062321	Lab ID: 70179541001	Collected: 06/23/21 10:05	Received: 07/06/21 19:20	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	6.1	ug/L	1.0	1		07/09/21 17:27	7439-92-1	

Sample: KA2_062321	Lab ID: 70179541002	Collected: 06/23/21 10:09	Received: 07/06/21 19:20	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		07/09/21 17:32	7439-92-1	

Sample: KA3_062321	Lab ID: 70179541003	Collected: 06/23/21 10:12	Received: 07/06/21 19:20	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	8.6	ug/L	1.0	1		07/09/21 17:33	7439-92-1	

Sample: KA4_062321	Lab ID: 70179541004	Collected: 06/23/21 10:13	Received: 07/06/21 19:20	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		07/09/21 17:34	7439-92-1	

Sample: KA5_062321	Lab ID: 70179541005	Collected: 06/23/21 10:14	Received: 07/06/21 19:20	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	4.9	ug/L	1.0	1		07/09/21 17:36	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KA6_062321	Lab ID: 70179541006	Collected: 06/23/21 10:15	Received: 07/06/21 19:20	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	4.3	ug/L	1.0	1		07/09/21 17:37	7439-92-1	
Sample: KA7_062321	Lab ID: 70179541007	Collected: 06/23/21 10:15	Received: 07/06/21 19:20	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		07/09/21 17:38	7439-92-1	
Sample: KA8_062321	Lab ID: 70179541008	Collected: 06/23/21 10:18	Received: 07/06/21 19:20	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	6.5	ug/L	1.0	1		07/09/21 17:39	7439-92-1	
Sample: KA9_062321	Lab ID: 70179541009	Collected: 06/23/21 10:19	Received: 07/06/21 19:20	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		07/09/21 17:40	7439-92-1	
Sample: KA10_062321	Lab ID: 70179541010	Collected: 06/23/21 10:20	Received: 07/06/21 19:20	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		07/09/21 17:41	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KA11_062321	Lab ID: 70179541011	Collected: 06/23/21 10:27	Received: 07/06/21 19:20	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		07/09/21 17:44	7439-92-1	
Sample: KA12_062321	Lab ID: 70179541012	Collected: 06/23/21 10:27	Received: 07/06/21 19:20	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		07/09/21 17:47	7439-92-1	
Sample: KA12F_062321	Lab ID: 70179541013	Collected: 06/23/21 10:28	Received: 07/06/21 19:20	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		07/09/21 17:48	7439-92-1	
Sample: KA13_062321	Lab ID: 70179541014	Collected: 06/23/21 10:28	Received: 07/06/21 19:20	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		07/09/21 17:49	7439-92-1	
Sample: KA13F_062321	Lab ID: 70179541015	Collected: 06/23/21 10:28	Received: 07/06/21 19:20	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		07/09/21 17:50	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KA14_062321	Lab ID: 70179541016	Collected: 06/23/21 10:30	Received: 07/06/21 19:20	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	11.5	ug/L	1.0	1		07/09/21 17:51	7439-92-1	
Sample: KMOK_062321	Lab ID: 70179541017	Collected: 06/23/21 10:33	Received: 07/06/21 19:20	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	7.5	ug/L	1.0	1		07/09/21 17:52	7439-92-1	
Sample: KNO_062321	Lab ID: 70179541018	Collected: 06/23/21 10:34	Received: 07/06/21 19:20	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	22.4	ug/L	1.0	1		07/09/21 17:53	7439-92-1	
Sample: KNTR_062321	Lab ID: 70179541019	Collected: 06/23/21 10:35	Received: 07/06/21 19:20	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		07/09/21 17:56	7439-92-1	
Sample: KK1_062321	Lab ID: 70179541020	Collected: 06/23/21 10:39	Received: 07/06/21 19:20	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	6.0	ug/L	1.0	1		07/09/21 17:57	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)

Pace Project No.: 70179541

Sample: KCAF_062321	Lab ID: 70179541021	Collected: 06/23/21 10:38	Received: 07/06/21 19:20	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		07/09/21 18:00	7439-92-1	
Sample: KF_062321	Lab ID: 70179541022	Collected: 06/23/21 10:37	Received: 07/06/21 19:20	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		07/09/21 18:03	7439-92-1	
Sample: KB1_062321	Lab ID: 70179541023	Collected: 06/23/21 10:41	Received: 07/06/21 19:20	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	18.4	ug/L	1.0	1		07/09/21 18:04	7439-92-1	
Sample: KB2_062321	Lab ID: 70179541024	Collected: 06/23/21 10:42	Received: 07/06/21 19:20	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	21.8	ug/L	1.0	1		07/09/21 18:05	7439-92-1	
Sample: KB3_062321	Lab ID: 70179541025	Collected: 06/23/21 10:42	Received: 07/06/21 19:20	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	2260	ug/L	10.0	10		07/12/21 13:20	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KB4_062321	Lab ID: 70179541026	Collected: 06/23/21 10:43	Received: 07/06/21 19:20	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	71.9	ug/L	1.0	1		07/09/21 18:09	7439-92-1	
Sample: KB5A_062321	Lab ID: 70179541027	Collected: 06/23/21 10:46	Received: 07/06/21 19:20	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	12.1	ug/L	1.0	1		07/09/21 18:10	7439-92-1	
Sample: KB5B_062321	Lab ID: 70179541028	Collected: 06/23/21 10:46	Received: 07/06/21 19:20	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		07/09/21 18:11	7439-92-1	
Sample: KD1_062321	Lab ID: 70179541029	Collected: 06/23/21 10:47	Received: 07/06/21 19:20	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	8.1	ug/L	1.0	1		07/09/21 18:12	7439-92-1	
Sample: KD2_062321	Lab ID: 70179541030	Collected: 06/23/21 10:48	Received: 07/06/21 19:20	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	72.9	ug/L	1.0	1		07/09/21 18:13	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KD3_062321	Lab ID: 70179541031	Collected: 06/23/21 10:49	Received: 07/06/21 19:20	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	58.7	ug/L	1.0	1		07/09/21 18:14	7439-92-1	

Sample: KD4_062321	Lab ID: 70179541032	Collected: 06/23/21 10:49	Received: 07/06/21 19:20	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	19.0	ug/L	1.0	1		07/09/21 18:17	7439-92-1	

Sample: KD5_062321	Lab ID: 70179541033	Collected: 06/23/21 10:50	Received: 07/06/21 19:20	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	4.8	ug/L	1.0	1		07/09/21 18:20	7439-92-1	

Sample: KD6_062321	Lab ID: 70179541034	Collected: 06/23/21 10:51	Received: 07/06/21 19:20	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	5.4	ug/L	1.0	1		07/09/21 18:21	7439-92-1	

Sample: KD7_062321	Lab ID: 70179541035	Collected: 06/23/21 10:52	Received: 07/06/21 19:20	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		07/09/21 18:22	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KC1_062321	Lab ID: 70179541036	Collected: 06/23/21 10:55	Received: 07/06/21 19:20	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	63.8	ug/L	1.0	1		07/09/21 18:23	7439-92-1	

Sample: KC2_062321	Lab ID: 70179541037	Collected: 06/23/21 10:54	Received: 07/06/21 19:20	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	12.2	ug/L	1.0	1		07/09/21 18:24	7439-92-1	

Sample: KC3_062321	Lab ID: 70179541038	Collected: 06/23/21 10:53	Received: 07/06/21 19:20	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	11.0	ug/L	1.0	1		07/09/21 18:25	7439-92-1	

Sample: KHALL_062321	Lab ID: 70179541039	Collected: 06/23/21 10:56	Received: 07/06/21 19:20	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		07/09/21 18:26	7439-92-1	

Sample: KE1_062321	Lab ID: 70179541040	Collected: 06/23/21 10:57	Received: 07/06/21 19:20	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	14.5	ug/L	1.0	1		07/09/21 18:27	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

Sample: KE2_062321	Lab ID: 70179541041	Collected: 06/23/21 10:59	Received: 07/06/21 19:20	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	11.0	ug/L	1.0	1		07/09/21 18:32	7439-92-1	

Sample: KE3_062321	Lab ID: 70179541042	Collected: 06/23/21 10:59	Received: 07/06/21 19:20	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	12.4	ug/L	1.0	1		07/09/21 18:35	7439-92-1	

Sample: KE4_062321	Lab ID: 70179541043	Collected: 06/23/21 10:58	Received: 07/06/21 19:20	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	4.7	ug/L	1.0	1		07/09/21 18:36	7439-92-1	

Sample: KE5_062321	Lab ID: 70179541044	Collected: 06/23/21 10:58	Received: 07/06/21 19:20	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	7.8	ug/L	1.0	1		07/09/21 18:37	7439-92-1	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (KUTZ)

Pace Project No.: 70179541

QC Batch:	217075	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:	70179541001, 70179541002, 70179541003, 70179541004, 70179541005, 70179541006, 70179541007, 70179541008, 70179541009, 70179541010, 70179541011, 70179541012, 70179541013, 70179541014, 70179541015, 70179541016, 70179541017, 70179541018, 70179541019, 70179541020		

METHOD BLANK:	1093778	Matrix:	Water
Associated Lab Samples:	70179541001, 70179541002, 70179541003, 70179541004, 70179541005, 70179541006, 70179541007, 70179541008, 70179541009, 70179541010, 70179541011, 70179541012, 70179541013, 70179541014, 70179541015, 70179541016, 70179541017, 70179541018, 70179541019, 70179541020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/09/21 17:26	

LABORATORY CONTROL SAMPLE:	1093779					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.2	98	85-115	

MATRIX SPIKE SAMPLE:	1093781						
Parameter	Units	70179541001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	6.1	50	60.6	109	70-130	

MATRIX SPIKE SAMPLE:	1093783						
Parameter	Units	70179541011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.9	50	59.8	116	70-130	

SAMPLE DUPLICATE:	1093780					
Parameter	Units	70179541001 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	6.1	6.1	0		

SAMPLE DUPLICATE:	1093782					
Parameter	Units	70179541011 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	1.9	1.9	1		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

QC Batch:	217076	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: 70179541021, 70179541022, 70179541023, 70179541024, 70179541025, 70179541026, 70179541027, 70179541028, 70179541029, 70179541030, 70179541031, 70179541032, 70179541033, 70179541034, 70179541035, 70179541036, 70179541037, 70179541038, 70179541039, 70179541040

METHOD BLANK: 1093784 Matrix: Water

Associated Lab Samples: 70179541021, 70179541022, 70179541023, 70179541024, 70179541025, 70179541026, 70179541027, 70179541028, 70179541029, 70179541030, 70179541031, 70179541032, 70179541033, 70179541034, 70179541035, 70179541036, 70179541037, 70179541038, 70179541039, 70179541040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/09/21 17:58	

LABORATORY CONTROL SAMPLE: 1093785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.4	99	85-115	

MATRIX SPIKE SAMPLE: 1093787

Parameter	Units	70179541021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	54.2	108	70-130	

MATRIX SPIKE SAMPLE: 1093789

Parameter	Units	70179541031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	58.7	50	111	105	70-130	

SAMPLE DUPLICATE: 1093786

Parameter	Units	70179541021 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 1093788

Parameter	Units	70179541031 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	58.7	58.3	1	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (KUTZ)
Pace Project No.: 70179541

QC Batch: 217077 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: 70179541041, 70179541042, 70179541043, 70179541044

METHOD BLANK: 1093791 Matrix: Water
Associated Lab Samples: 70179541041, 70179541042, 70179541043, 70179541044

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/09/21 18:28	

LABORATORY CONTROL SAMPLE: 1093792

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

MATRIX SPIKE SAMPLE: 1093794

Parameter	Units	70179541041 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	11.0	50	63.7	105	70-130	

SAMPLE DUPLICATE: 1093793

Parameter	Units	70179541041 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	11.0	10.7	3	

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QUALIFIERS

Project: CENTRAL BUCKS (KUTZ)

Pace Project No.: 70179541

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS (KUTZ)

Pace Project No.: 70179541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179541001	KA1_062321	EPA 200.8	217075		
70179541002	KA2_062321	EPA 200.8	217075		
70179541003	KA3_062321	EPA 200.8	217075		
70179541004	KA4_062321	EPA 200.8	217075		
70179541005	KA5_062321	EPA 200.8	217075		
70179541006	KA6_062321	EPA 200.8	217075		
70179541007	KA7_062321	EPA 200.8	217075		
70179541008	KA8_062321	EPA 200.8	217075		
70179541009	KA9_062321	EPA 200.8	217075		
70179541010	KA10_062321	EPA 200.8	217075		
70179541011	KA11_062321	EPA 200.8	217075		
70179541012	KA12_062321	EPA 200.8	217075		
70179541013	KA12F_062321	EPA 200.8	217075		
70179541014	KA13_062321	EPA 200.8	217075		
70179541015	KA13F_062321	EPA 200.8	217075		
70179541016	KA14_062321	EPA 200.8	217075		
70179541017	KMOK_062321	EPA 200.8	217075		
70179541018	KNO_062321	EPA 200.8	217075		
70179541019	KNTR_062321	EPA 200.8	217075		
70179541020	KK1_062321	EPA 200.8	217075		
70179541021	KCAF_062321	EPA 200.8	217076		
70179541022	KF_062321	EPA 200.8	217076		
70179541023	KB1_062321	EPA 200.8	217076		
70179541024	KB2_062321	EPA 200.8	217076		
70179541025	KB3_062321	EPA 200.8	217076		
70179541026	KB4_062321	EPA 200.8	217076		
70179541027	KB5A_062321	EPA 200.8	217076		
70179541028	KB5B_062321	EPA 200.8	217076		
70179541029	KD1_062321	EPA 200.8	217076		
70179541030	KD2_062321	EPA 200.8	217076		
70179541031	KD3_062321	EPA 200.8	217076		
70179541032	KD4_062321	EPA 200.8	217076		
70179541033	KD5_062321	EPA 200.8	217076		
70179541034	KD6_062321	EPA 200.8	217076		
70179541035	KD7_062321	EPA 200.8	217076		
70179541036	KC1_062321	EPA 200.8	217076		
70179541037	KC2_062321	EPA 200.8	217076		
70179541038	KC3_062321	EPA 200.8	217076		
70179541039	KHALL_062321	EPA 200.8	217076		
70179541040	KE1_062321	EPA 200.8	217076		
70179541041	KE2_062321	EPA 200.8	217077		
70179541042	KE3_062321	EPA 200.8	217077		
70179541043	KE4_062321	EPA 200.8	217077		
70179541044	KE5_062321	EPA 200.8	217077		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 70179541

Client Name: Langon Engineering

PM: STS Due Date: 07/21/21
CLIENT: LAN-PA

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____
Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Temperature Blank Present: Yes No
Type of Ice: Wet Blue None

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: TH091 Correction Factor: +0.0

Samples on ice, cooling process has begun

Cooler Temperature(°C): 24.5 Cooler Temperature Corrected(°C): 24.5

Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: MN 7/7/21

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? Yes No

Did samples originate from a foreign source including Hawaii and Puerto Rico? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/ID, Matrix: <u>SL (WT) OIL</u>				
All containers needing preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	13.
pH paper Lot # <u>AC155968</u>				
All containers needing preservation are found to be in compliance with method recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	14.
KI starch test strips Lot #				
Residual chlorine strips Lot #				Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	15.
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____				

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Analysis pulled from profile