

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
Central Bucks West High School
375 W Court Street
Doylestown, PA 18901**

Dear Mr. Hanna:

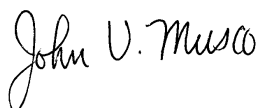
This document has been prepared by Langan to provide the results of the drinking water sampling activities at the above referenced school. Langan sampled the drinking water sources (e.g. bottle fillers, fountains, sink faucets, etc.) on July 2, 2021 as identified by the Central Bucks School District 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 location:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Kitchen 1-bowl sink at steamer	F141B_070221	15.1 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 6_7-2-2021_West_West Stad_Lenape_Doyle_Holicong\1st_West High School\West HS_Lead_Sampling_Report_2021.docx

July 15, 2021

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

RE: Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

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 (CB WEST)

Pace Project No.: 70179820

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 (CB WEST)

Pace Project No.: 70179820

Sample: F129A_070221	Lab ID: 70179820001	Collected: 07/02/21 05:53	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	<1.0	ug/L	1.0	1		07/14/21 16:24	7439-92-1	
Sample: F129B_070221	Lab ID: 70179820002	Collected: 07/02/21 05:54	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	<1.0	ug/L	1.0	1		07/14/21 16:27	7439-92-1	
Sample: F115_070221	Lab ID: 70179820003	Collected: 07/02/21 07:05	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	<1.0	ug/L	1.0	1		07/14/21 16:28	7439-92-1	
Sample: F139B_070221	Lab ID: 70179820004	Collected: 07/02/21 06:11	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		07/14/21 16:29	7439-92-1	
Sample: F139C_070221	Lab ID: 70179820005	Collected: 07/02/21 05:59	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	<1.0	ug/L	1.0	1		07/14/21 16:30	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: F141A_070221	Lab ID: 70179820006	Collected: 07/02/21 06:06	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	1.2	ug/L	1.0	1		07/14/21 16:31	7439-92-1	
Sample: F141B_070221	Lab ID: 70179820007	Collected: 07/02/21 06:07	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	15.1	ug/L	1.0	1		07/14/21 16:34	7439-92-1	
Sample: F141C_070221	Lab ID: 70179820008	Collected: 07/02/21 06:08	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		07/14/21 16:35	7439-92-1	
Sample: F139A_070221	Lab ID: 70179820009	Collected: 07/02/21 06:12	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	<1.0	ug/L	1.0	1		07/14/21 16:36	7439-92-1	
Sample: E112_070221	Lab ID: 70179820010	Collected: 07/02/21 06:16	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	1.7	ug/L	1.0	1		07/14/21 16:37	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: E112A_070221	Lab ID: 70179820011	Collected: 07/02/21 06:17	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	1.7	ug/L	1.0	1		07/14/21 16:38	7439-92-1	
Sample: E110A_070221	Lab ID: 70179820012	Collected: 07/02/21 06:19	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	<1.0	ug/L	1.0	1		07/14/21 16:41	7439-92-1	
Sample: E110B_070221	Lab ID: 70179820013	Collected: 07/02/21 06:19	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	<1.0	ug/L	1.0	1		07/14/21 16:42	7439-92-1	
Sample: E110_070221	Lab ID: 70179820014	Collected: 07/02/21 06:22	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		07/14/21 16:43	7439-92-1	
Sample: F102A_070221	Lab ID: 70179820015	Collected: 07/02/21 07:07	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		07/14/21 16:46	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: F102B_070221	Lab ID: 70179820016	Collected: 07/02/21 07:07	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		07/14/21 16:47	7439-92-1	
Sample: G102A_070221	Lab ID: 70179820017	Collected: 07/02/21 07:09	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	<1.0	ug/L	1.0	1		07/14/21 16:48	7439-92-1	
Sample: G102B_070221	Lab ID: 70179820018	Collected: 07/02/21 07:09	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	<1.0	ug/L	1.0	1		07/14/21 16:49	7439-92-1	
Sample: G105_070221	Lab ID: 70179820019	Collected: 07/02/21 07:12	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	<1.0	ug/L	1.0	1		07/14/21 16:50	7439-92-1	
Sample: E100F_070221	Lab ID: 70179820020	Collected: 07/02/21 06:25	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		07/14/21 16:51	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: E106B_070221	Lab ID: 70179820021	Collected: 07/02/21 06:27	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	<1.0	ug/L	1.0	1		07/14/21 16:54	7439-92-1	

Sample: E108_070221	Lab ID: 70179820022	Collected: 07/02/21 06:30	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	<1.0	ug/L	1.0	1		07/14/21 16:59	7439-92-1	

Sample: D117F_070221	Lab ID: 70179820023	Collected: 07/02/21 06:31	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		07/14/21 17:00	7439-92-1	

Sample: D102F_070221	Lab ID: 70179820024	Collected: 07/02/21 06:37	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	<1.0	ug/L	1.0	1		07/14/21 17:01	7439-92-1	

Sample: D102B_070221	Lab ID: 70179820025	Collected: 07/02/21 06:35	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	<1.0	ug/L	1.0	1		07/14/21 17:02	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: A104_070221	Lab ID: 70179820026	Collected: 07/02/21 06:34	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	<1.0	ug/L	1.0	1		07/14/21 17:03	7439-92-1	
Sample: A114_070221	Lab ID: 70179820027	Collected: 07/02/21 06:41	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	<1.0	ug/L	1.0	1		07/14/21 17:04	7439-92-1	
Sample: C117F_070221	Lab ID: 70179820028	Collected: 07/02/21 06:38	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		07/14/21 17:05	7439-92-1	
Sample: C103F_070221	Lab ID: 70179820029	Collected: 07/02/21 06:43	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	<1.0	ug/L	1.0	1		07/14/21 17:06	7439-92-1	
Sample: C104A_070221	Lab ID: 70179820030	Collected: 07/02/21 06:45	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		07/14/21 17:07	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820

Sample: C104B_070221	Lab ID: 70179820031	Collected: 07/02/21 06:46	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	<1.0	ug/L	1.0	1		07/14/21 17:10	7439-92-1	
Sample: C106A_070221	Lab ID: 70179820032	Collected: 07/02/21 06:48	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	1.1	ug/L	1.0	1		07/14/21 17:13	7439-92-1	
Sample: C106B_070221	Lab ID: 70179820033	Collected: 07/02/21 06:48	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	<1.0	ug/L	1.0	1		07/14/21 17:14	7439-92-1	
Sample: C106C_070221	Lab ID: 70179820034	Collected: 07/02/21 06:49	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	<1.0	ug/L	1.0	1		07/14/21 17:15	7439-92-1	
Sample: C106D_070221	Lab ID: 70179820035	Collected: 07/02/21 06:49	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	2.7	ug/L	1.0	1		07/14/21 17:16	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: C106E_070221	Lab ID: 70179820036	Collected: 07/02/21 06:50	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	3.6	ug/L	1.0	1		07/14/21 17:17	7439-92-1	
Sample: C106F_070221	Lab ID: 70179820037	Collected: 07/02/21 06:50	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	<1.0	ug/L	1.0	1		07/14/21 17:18	7439-92-1	
Sample: B104_070221	Lab ID: 70179820038	Collected: 07/02/21 06:53	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	<1.0	ug/L	1.0	1		07/14/21 17:19	7439-92-1	
Sample: B102_070221	Lab ID: 70179820039	Collected: 07/02/21 06:53	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	<1.0	ug/L	1.0	1		07/14/21 17:22	7439-92-1	
Sample: A124F_070221	Lab ID: 70179820040	Collected: 07/02/21 06:54	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	<1.0	ug/L	1.0	1		07/14/21 17:23	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: B112F_070221	Lab ID: 70179820041	Collected: 07/02/21 06:58	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	<1.0	ug/L	1.0	1		07/14/21 17:26	7439-92-1	
Sample: C139_070221	Lab ID: 70179820042	Collected: 07/02/21 06:59	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	<1.0	ug/L	1.0	1		07/14/21 17:29	7439-92-1	
Sample: C130_070221	Lab ID: 70179820043	Collected: 07/02/21 07:00	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		07/14/21 17:30	7439-92-1	
Sample: D139F_070221	Lab ID: 70179820044	Collected: 07/02/21 07:01	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		07/14/21 17:31	7439-92-1	
Sample: A204_070221	Lab ID: 70179820045	Collected: 07/02/21 07:16	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		07/14/21 17:34	7439-92-1	

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

Sample: A224_070221	Lab ID: 70179820046	Collected: 07/02/21 07:18	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	<1.0	ug/L	1.0	1		07/14/21 17:35	7439-92-1	
Sample: B212_070221	Lab ID: 70179820047	Collected: 07/02/21 07:19	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	<1.0	ug/L	1.0	1		07/14/21 17:36	7439-92-1	
Sample: H103_070221	Lab ID: 70179820048	Collected: 07/02/21 07:29	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		07/14/21 17:37	7439-92-1	
Sample: H101_070221	Lab ID: 70179820049	Collected: 07/02/21 07:28	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	5.2	ug/L	1.0	1		07/14/21 17:38	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

QC Batch:	217633	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: 70179820001, 70179820002, 70179820003, 70179820004, 70179820005, 70179820006, 70179820007, 70179820008, 70179820009, 70179820010, 70179820011, 70179820012, 70179820013, 70179820014, 70179820015, 70179820016, 70179820017, 70179820018, 70179820019, 70179820020

METHOD BLANK: 1096833 Matrix: Water

Associated Lab Samples: 70179820001, 70179820002, 70179820003, 70179820004, 70179820005, 70179820006, 70179820007, 70179820008, 70179820009, 70179820010, 70179820011, 70179820012, 70179820013, 70179820014, 70179820015, 70179820016, 70179820017, 70179820018, 70179820019, 70179820020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/14/21 16:22	

LABORATORY CONTROL SAMPLE: 1096834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.0	98	85-115	

MATRIX SPIKE SAMPLE: 1096836

Parameter	Units	70179820001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	48.2	96	70-130	

MATRIX SPIKE SAMPLE: 1096838

Parameter	Units	70179820011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.7	50	56.3	109	70-130	

SAMPLE DUPLICATE: 1096835

Parameter	Units	70179820001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 1096837

Parameter	Units	70179820011 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.7	1.7	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (CB WEST)
Pace Project No.: 70179820

QC Batch: 217634 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: 70179820021, 70179820022, 70179820023, 70179820024, 70179820025, 70179820026, 70179820027, 70179820028, 70179820029, 70179820030, 70179820031, 70179820032, 70179820033, 70179820034, 70179820035, 70179820036, 70179820037, 70179820038, 70179820039, 70179820040

METHOD BLANK: 1096839 Matrix: Water
Associated Lab Samples: 70179820021, 70179820022, 70179820023, 70179820024, 70179820025, 70179820026, 70179820027, 70179820028, 70179820029, 70179820030, 70179820031, 70179820032, 70179820033, 70179820034, 70179820035, 70179820036, 70179820037, 70179820038, 70179820039, 70179820040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/14/21 16:52	

LABORATORY CONTROL SAMPLE: 1096840

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

MATRIX SPIKE SAMPLE: 1096842

Parameter	Units	70179820021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	57.0	113	70-130	

MATRIX SPIKE SAMPLE: 1096844

Parameter	Units	70179820031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	56.7	112	70-130	

SAMPLE DUPLICATE: 1096841

Parameter	Units	70179820021 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 1096843

Parameter	Units	70179820031 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 (CB WEST)
Pace Project No.: 70179820

QC Batch: 217635 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: 70179820041, 70179820042, 70179820043, 70179820044, 70179820045, 70179820046, 70179820047, 70179820048, 70179820049

METHOD BLANK: 1096845 Matrix: Water
Associated Lab Samples: 70179820041, 70179820042, 70179820043, 70179820044, 70179820045, 70179820046, 70179820047, 70179820048, 70179820049

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/14/21 17:24	

LABORATORY CONTROL SAMPLE: 1096846

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

MATRIX SPIKE SAMPLE: 1096848

Parameter	Units	70179820041 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	62.8	126	70-130	

SAMPLE DUPLICATE: 1096847

Parameter	Units	70179820041 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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QUALIFIERS

Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820

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 (CB WEST)

Pace Project No.: 70179820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179820001	F129A_070221	EPA 200.8	217633		
70179820002	F129B_070221	EPA 200.8	217633		
70179820003	F115_070221	EPA 200.8	217633		
70179820004	F139B_070221	EPA 200.8	217633		
70179820005	F139C_070221	EPA 200.8	217633		
70179820006	F141A_070221	EPA 200.8	217633		
70179820007	F141B_070221	EPA 200.8	217633		
70179820008	F141C_070221	EPA 200.8	217633		
70179820009	F139A_070221	EPA 200.8	217633		
70179820010	E112_070221	EPA 200.8	217633		
70179820011	E112A_070221	EPA 200.8	217633		
70179820012	E110A_070221	EPA 200.8	217633		
70179820013	E110B_070221	EPA 200.8	217633		
70179820014	E110_070221	EPA 200.8	217633		
70179820015	F102A_070221	EPA 200.8	217633		
70179820016	F102B_070221	EPA 200.8	217633		
70179820017	G102A_070221	EPA 200.8	217633		
70179820018	G102B_070221	EPA 200.8	217633		
70179820019	G105_070221	EPA 200.8	217633		
70179820020	E100F_070221	EPA 200.8	217633		
70179820021	E106B_070221	EPA 200.8	217634		
70179820022	E108_070221	EPA 200.8	217634		
70179820023	D117F_070221	EPA 200.8	217634		
70179820024	D102F_070221	EPA 200.8	217634		
70179820025	D102B_070221	EPA 200.8	217634		
70179820026	A104_070221	EPA 200.8	217634		
70179820027	A114_070221	EPA 200.8	217634		
70179820028	C117F_070221	EPA 200.8	217634		
70179820029	C103F_070221	EPA 200.8	217634		
70179820030	C104A_070221	EPA 200.8	217634		
70179820031	C104B_070221	EPA 200.8	217634		
70179820032	C106A_070221	EPA 200.8	217634		
70179820033	C106B_070221	EPA 200.8	217634		
70179820034	C106C_070221	EPA 200.8	217634		
70179820035	C106D_070221	EPA 200.8	217634		
70179820036	C106E_070221	EPA 200.8	217634		
70179820037	C106F_070221	EPA 200.8	217634		
70179820038	B104_070221	EPA 200.8	217634		
70179820039	B102_070221	EPA 200.8	217634		
70179820040	A124F_070221	EPA 200.8	217634		
70179820041	B112F_070221	EPA 200.8	217635		
70179820042	C139_070221	EPA 200.8	217635		
70179820043	C130_070221	EPA 200.8	217635		
70179820044	D139F_070221	EPA 200.8	217635		
70179820045	A204_070221	EPA 200.8	217635		
70179820046	A224_070221	EPA 200.8	217635		
70179820047	B212_070221	EPA 200.8	217635		
70179820048	H103_070221	EPA 200.8	217635		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS (CB WEST)

Pace Project No.: 70179820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179820049	H101_070221	EPA 200.8	217635		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY

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WO#: 70179820



Section A		Section B		Section C	
Required Client Information:				Required Project Information:	
Company: Langan Engineering	Address: 2700 Kelly Road, Suite 200 Warrington, PA 18976	Report To: Bill Lambing	Copy To:	Attention: Bill Lambing	Company Name: Langan Engineering
Email: blambing@langan.com	Phone: 215-491-6500	Purchase Order #: 200130403-400-001	Project Name: Central Bucks School District (CB West)	Address: 2700 Kelly Road, Suite 200	Pace Quote: See Langan-Pace MSA
Requested Due Date: Standard Turn Around (5 day)	Project #: 200130403			Pace Project Manager: sophia.sparkes@pacelabs.com	Pace Profile #: 7983
Page : 1 Of 5					

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	200.7 Metals (PB)	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				
						DATE	TIME	DATE	TIME														
1	F129A_070221	DW	G	7/2/2021	553	7/2/2021	553	1	X							X							
2	F129B_070221	DW	G	7/2/2021	554	7/2/2021	554	1	X							X							
3	F115_070221	DW	G	7/2/2021	705	7/2/2021	705	1	X							X							
4	F139B_070221	DW	G	7/2/2021	611	7/2/2021	611	1	X							X							
5	F139C_070221	DW	G	7/2/2021	559	7/2/2021	559	1	X							X							
6	F141A_070221	DW	G	7/2/2021	606	7/2/2021	606	1	X							X							
7	F141B_070221	DW	G	7/2/2021	607	7/2/2021	607	1	X							X							
8	F141C_070221	DW	G	7/2/2021	608	7/2/2021	608	1	X							X							
9	F139A_070221	DW	G	7/2/2021	612	7/2/2021	612	1	X							X							
10	E112_070221	DW	G	7/2/2021	616	7/2/2021	616	1	X							X							
11	E112A_070221	DW	G	7/2/2021	617	7/2/2021	617	1	X							X							
12	E110A_070221	DW	G	7/2/2021	619	7/2/2021	619	1	X							X							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Bill Lambing	7/6/2021	11:00	Pat Chen	7/6/2021	11:00	
	John D My	7/6/21	16:20	John D My	7/6/21	16:20	
	John D My	7/6/21	17:20	John D My	7/6/21	19:20	19.0 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER: <i>Bill Lambing</i>						
DATE Signed: 7/6/2021						



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Required Client Information:

Company:	Langan Engineering
Address:	2700 Kelly Road, Suite 200 Warrington, PA 18976
Email:	blaming@langan.com
Phone:	215-491-6500 Fax 2015-491-6501
Requested Due Date:	Standard Turn Around (5 day)

Section B

Required Project Information:

Report To:	Bill Lambing
Copy To:	
Purchase Order #:	200130403-400-001
Project Name:	Central Bucks School District (CB West)
Project #:	200130403

Section C

Invoice Information:

Attention:	Bill Lambing
Company Name:	Langan Engineering
Address:	2700 Kelly Road, Suite 200
Pace Quote:	See Langan-Pace MSA
Pace Project Manager:	sophia.sparkes@pacelabs.com,
Pace Profile #:	7983

Regulatory Agency	
State / Location	PA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX Drinking Water Water Wasto Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	200.7 Metals (PB)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other								
						DATE	TIME	DATE	TIME																		
13	E110B_070221	DW	G	7/2/2021	619	7/2/2021	619	1			X								X								
14	E110_070221	DW	G	7/2/2021	622	7/2/2021	622	1			X								X								
15	F102A_070221	DW	G	7/2/2021	707	7/2/2021	707	1			X								X								
16	F102B_070221	DW	G	7/2/2021	707	7/2/2021	707	1			X								X								
17	G102A_070221	DW	G	7/2/2021	709	7/2/2021	709	1			X								X								
18	G102B_070221	DW	G	7/2/2021	709	7/2/2021	709	1			X								X								
19	G105_070221	DW	G	7/2/2021	712	7/2/2021	712	1			X								X								
20	E100F_070221	DW	G	7/2/2021	625	7/2/2021	625	1			X								X								
21	E106B_070221	DW	G	7/2/2021	627	7/2/2021	627	1			X								X								
22	E108_070221	DW	G	7/2/2021	630	7/2/2021	630	1			X								X								
23	D117F_070221	DW	G	7/2/2021	631	7/2/2021	631	1			X								X								
24	D102F_070221	DW	G	7/2/2021	637	7/2/2021	637	1			X								X								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	<i>Bill Lambing</i>	7/6/2021		<i>Paul Sparke</i>	7/6/2021	11:00			
	<i>Paul Sparke</i>	7/6/21	16:30	<i>Bill Lambing</i>	7/6/21	16:20			
	<i>Paul Sparke</i>	7/6/21	19:20	<i>Bill Lambing</i>	7/6/21	19:20	190	N	N

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER: <i>Bill Lambing</i>					
DATE Signed:		7/6/2021			



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A

Required Client Information:

Company: Langan Engineering	
Address: 2700 Kelly Road, Suite 200	
Warrington, PA 18976	
Email: blaming@langan.com	
Phone: 215-491-6500	Fax: 2015-491-6501
Requested Due Date: Standard Turn Around (5 day)	

Section B

Required Project Information:

Report To: Bill Lambing	
Copy To:	
Purchase Order #: 200130403-400-001	
Project Name: Central Bucks School District (CB West)	
Project #: 200130403	

Section C

Invoice Information:

Attention: Bill Lambing	
Company Name: Langan Engineering	
Address: 2700 Kelly Road, Suite 200	
Pace Quote: See Langan-Pace MSA	
Pace Project Manager: sophia.sparkes@pacelabs.com	
Pace Profile #: 7983	

	Requested Analysis Filtered (Y/N)	PA
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ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Analyses Test 200.7 Metals (PB)	Residual Chlorine (Y/N)
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other			
						DATE	TIME	DATE	TIME													
25	D102B_070221	DW	G	7/2/2021	635	7/2/2021	635	1			X								X			
26	A104_070221	DW	G	7/2/2021	634	7/2/2021	634	1			X								X			
27	A114_070221	DW	G	7/2/2021	641	7/2/2021	641	1			X								X			
28	C117F_070221	DW	G	7/2/2021	638	7/2/2021	638	1			X								X			
29	C103F_070221	DW	G	7/2/2021	643	7/2/2021	643	1			X								X			
30	C104A_070221	DW	G	7/2/2021	645	7/2/2021	645	1			X								X			
31	C104B_070221	DW	G	7/2/2021	646	7/2/2021	646	1			X								X			
32	C106A_070221	DW	G	7/2/2021	648	7/2/2021	648	1			X								X			
33	C106B_070221	DW	G	7/2/2021	648	7/2/2021	648	1			X								X			
34	C106C_070221	DW	G	7/2/2021	649	7/2/2021	649	1			X								X			
35	C106D_070221	DW	G	7/2/2021	649	7/2/2021	649	1			X								X			
36	C106E_070221	DW	G	7/2/2021	650	7/2/2021	650	1			X								X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Bill Lambing</i>	7/6/2021		<i>Bill Lambing</i>	7/6/2021		
	<i>Paula...</i>	7/6/21	15:20	<i>Bill Lambing</i>	7/6/21	16:20	
	<i>Paula...</i>	7/6/21	15:20	<i>Bill Lambing</i>	7/6/21	16:20	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER: <i>Bill Lambing</i>					
DATE Signed: 7/6/2021					



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A**Required Client Information:**

Company: Langan Engineering
 Address: 2700 Kelly Road, Suite 200
 Warrington, PA 18976
 Email: blambing@langan.com
 Phone: 215-491-6500 Fax 2015-491-6501
 Requested Due Date: Standard Turn Around (5 day)

Section B**Required Project Information:**

Report To: Bill Lambing
 Copy To:
 Purchase Order #: 200130403-400-001
 Project Name: Central Bucks School District (CB West)
 Project #: 200130403

Section C**Invoice Information:**

Attention: Bill Lambing
 Company Name: Langan Engineering
 Address: 2700 Kelly Road, Suite 200
 Pace Quote: See Langan-Pace MSA
 Pace Project Manager: sophia.sparkes@pacelabs.com
 Pace Profile #: 7983

Regulatory Agency

State / Location

PA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE DW Water WT Waste Water WW Product SL Soil/Solid OL Oil WP Wipe AR Air OT Other TS Tissue	COLLECTED START DATE TIME END DATE TIME	PRESERVATIVES Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	ANALYSES TEST Y/N 200.7 Metals (PB)	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)									
						MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	SAMPLE TEMP AT COLLECTION																	
									# OF CONTAINERS																
37	C106F_070221	DW	G	7/2/2021 650	7/2/2021 650	1		X				X													
38	B104_070221	DW	G	7/2/2021 653	7/2/2021 653	1		X				X													
39	B102_070221	DW	G	7/2/2021 653	7/2/2021 653	1		X				X													
40	A124F_070221	DW	G	7/2/2021 654	7/2/2021 654	1		X				X													
41	B112F_070221	DW	G	7/2/2021 658	7/2/2021 658	1		X				X													
42	C139_070221	DW	G	7/2/2021 659	7/2/2021 659	1		X				X													
43	C130_070221	DW	G	7/2/2021 700	7/2/2021 700	1		X				X													
44	D139F_070221	DW	G	7/2/2021 701	7/2/2021 701	1		X				X													
45	A204_070221	DW	G	7/2/2021 716	7/2/2021 716	1		X				X													
46	A224_070221	DW	G	7/2/2021 718	7/2/2021 718	1		X				X													
47	B212_070221	DW	G	7/2/2021 719	7/2/2021 719	1		X				X													
48	H103_070221	DW	G	7/2/2021 729	7/2/2021 729	1		X				X													

SAMPLER NAME AND SIGNATURE		TEMP IN C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Bill Lambing				
SIGNATURE of SAMPLER: <i>Bill Lambing</i>	DATE Signed: 7/6/2021				



Sample Condition Upon Receipt

WO#: 70179820

Client Name: Lang

Project

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 NoPacking Material: Bubble Wrap Bubble Bags Ziploc None OtherThermometer Used: H09 Correction Factor: +0.0Cooler Temperature(°C): 19.0 Cooler Temperature Corrected(°C): 19.0

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)Date and Initials of person examining contents: 19.7.16/21Did 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 NoDid 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HCO28486</u>		Sample #
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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: KI starch test strips Lot #	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Client Notification/ Resolution: _____

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

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
Central Bucks West High School Stadium
375 W Court Street
Doylestown, PA 18901**

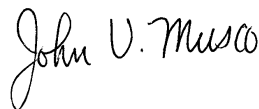
Dear Mr. Hanna:

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 July 2, 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).

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 6_7-2-2021_West_West Stad_Lenape_Doyle_Holicong\2nd_West Stadium\West Stadium_Lead_Sampling_Report_2021.docx

July 14, 2021

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

RE: Project: CENTRAL BUCKS SD (WEST STAD)
Pace Project No.: 70179774

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: CENTRAL BUCKS SD (WEST STAD)

Pace Project No.: 70179774

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 SD (WEST STAD)

Pace Project No.: 70179774

Sample: CBW1_0702221	Lab ID: 70179774001	Collected: 07/02/21 07:40	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		07/14/21 09:12	7439-92-1	
------	------	------	-----	---	--	----------------	-----------	--

Sample: CBW6_0702221	Lab ID: 70179774002	Collected: 07/02/21 07:43	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	12.4	ug/L	1.0	1		07/14/21 09:16	7439-92-1	
------	------	------	-----	---	--	----------------	-----------	--

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SD (WEST STAD)
Pace Project No.: 70179774

QC Batch: 217497 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: 70179774001, 70179774002

METHOD BLANK: 1096201 Matrix: Water
Associated Lab Samples: 70179774001, 70179774002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/14/21 09:11	

LABORATORY CONTROL SAMPLE: 1096202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.8	102	85-115	

MATRIX SPIKE SAMPLE: 1096204

Parameter	Units	70179774001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	56.5	112	70-130	

MATRIX SPIKE SAMPLE: 1096206

Parameter	Units	70179819009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	62.8	126	70-130	

SAMPLE DUPLICATE: 1096203

Parameter	Units	70179774001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 1096205

Parameter	Units	70179819009 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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QUALIFIERS

Project: CENTRAL BUCKS SD (WEST STAD)

Pace Project No.: 70179774

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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without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS SD (WEST STAD)
Pace Project No.: 70179774

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70179774001	CBW1_0702221	EPA 200.8	217497		
70179774002	CBW6_0702221	EPA 200.8	217497		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request D
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

WO# : 70179774

70179774

Section A

Required Client Information:

Company: Langan Engineering
Address: 2700 Kelly Road, Suite 200
Warrington, PA 18976
Email: blambing@langan.com
Phone: 215-491-6500 Fax: 2015-491-6501
Requested Due Date: Standard Turn Around (5 day)

Section B

Required Project Information:

Report To: Bill Lambing
Copy To:
Purchase Order #: 200130403-400-001
Project Name: Central Bucks School District (West Stadium)
Project #: 200130403

Section C

Invoice Information:

Attention: Bill Lambing
Company Name: Langan Engineering
Address: 2700 Kelly Road, Suite 200
Pace Quote: See Langan-Pace MSA
Pace Project Manager: sophia.sparkes@pacelabs.com,
Pace Profile #: 7983

Regulatory Agency

State / Location
PA

ITEM #	MATRIX <small>Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue</small>	CODE <small>DW WT WW P SL OL WP AR OT TS</small>	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE <small>(see valid codes to left)</small>	# OF CONTAINERS	PRESERVATIVES						ANALYSES TEST Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)										
			START					END		Unpreserved	H2SO4	HNO3	HCl				NaOH	Na2S2O3	Methanol	Other						
			DATE	TIME				DATE	TIME																	
			DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	TEMP IN C											
1	CBW1_070221	DW	7/2/2021	740	7/2/2021	740	1	X					X			7/6/2021	11:00									
2	CBW6_070221	DW	7/2/2021	743	7/2/2021	743	1	X					X			7/6/21	1624									
3																7/6/21	1920									
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

SAMPLER NAME AND SIGNATURE
Bill Lambing
DATE SIGNED: 7/6/2021



Sample Condition Upon Receipt

WO#: 70179774

Client Name: Lag

Project: **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

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: TH091 Correction Factor: +0.0

Cooler Temperature(°C): 19.0 Cooler Temperature Corrected(°C): 19.0

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 7/6/21 JF

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. 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: SL <u>WT</u> OIL		
All containers needing preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>MCO25486</u>		Sample #
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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 checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____		

Client Notification/ Resolution: _____

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____