

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 East High School Stadium  
2804 Holicong Road  
Doylestown, PA 18902**

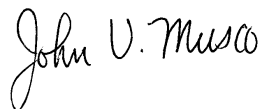
Dear Mr. Hanna:

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 22, 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 1\_6-22-2021\_Buck\_Linden\_Cold Spring\_East\_East Stad\5th\_East Stadium\East Stadium\_Lead\_Sampling\_Report\_2021.docx

July 07, 2021

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

RE: Project: CENTRAL BUCKS (EAST STADIUM)  
Pace Project No.: 70178251

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 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,  
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## CERTIFICATIONS

Project: CENTRAL BUCKS (EAST STADIUM)

Pace Project No.: 70178251

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### **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

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (EAST STADIUM)

Pace Project No.: 70178251

Sample: CBE1-20	Lab ID: 70178251001	Collected: 06/22/21 10:58	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.1	ug/L	1.0	1		07/06/21 19:14	7439-92-1	

Sample: CBE2-20	Lab ID: 70178251002	Collected: 06/22/21 10:58	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 19:15	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS (EAST STADIUM)  
Pace Project No.: 70178251

QC Batch: 216486 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: 70178251001, 70178251002

METHOD BLANK: 1090102 Matrix: Water  
Associated Lab Samples: 70178251001, 70178251002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/06/21 18:53	

LABORATORY CONTROL SAMPLE: 1090103

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

MATRIX SPIKE SAMPLE: 1090105

Parameter	Units	70178244041 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.3	50	53.7	105	70-130	

MATRIX SPIKE SAMPLE: 1090107

Parameter	Units	70178244051 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.9	50	52.8	102	70-130	

SAMPLE DUPLICATE: 1090104

Parameter	Units	70178244041 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.3	1.3	3	

SAMPLE DUPLICATE: 1090106

Parameter	Units	70178244051 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.9	2.0	3	

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

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## QUALIFIERS

Project: CENTRAL BUCKS (EAST STADIUM)

Pace Project No.: 70178251

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### 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 (EAST STADIUM)

Pace Project No.: 70178251

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70178251001	CBE1-20	EPA 200.8	216486		
70178251002	CBE2-20	EPA 200.8	216486		

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### CHAIN-OF-CUSTODY / Analytical Request Doc

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

WO# : 70178251

70178251

**Section A**

**Required Client Information:**

Company: Langan Engineering	
Address: 2700 Kelly Road, Suite 200	
Warrington, PA 18976	
Email: <a href="mailto:blambing@langan.com">blambing@langan.com</a>	
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 (East 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 #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE	COLLECTED	START	END	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)		
											Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	200.7 Metals (PB)																
1	CBE1-20	DW	G		G	6/22/2021	1058	6/22/2021	1058	1		X																							
2	CBE2-20	DW	G		G	6/22/2021	1058	6/22/2021	1058	1		X																							
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

141B	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>P. Bill Lambing</i>	6/23/2021	12:00	<i>Bill Lambing</i>	6/23/2021	12:00	
	<i>Pace Analytical</i>	6/23/2021	16:20	<i>Maria...</i>	6/23/2021	16:20	

<b>SAMPLER NAME AND SIGNATURE</b>		TEMP in C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
PRINT Name of SAMPLER:		
SIGNATURE of SAMPLER:	DATE Signed:	
	<i>Bill Lambing</i>	6/23/2021





# Sample Condition Upon Receipt

## WO#: 70178251

Client Name: NJProject: **PM: STS** Due Date: **07/09/21**  
**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: TH091  Correction Factor: +0.0Cooler Temperature(°C): 23.2 Cooler Temperature Corrected(°C): 23.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil (  N/A, water sample)Temperature Blank Present:  Yes  NoType of Ice: ~~Water~~ Blue None Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

6/23/21Date and Initials of person examining contents: J.I 1926Did 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID, Matrix: SL <u>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 <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HC155968</u>		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , 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:

Analysis pulled from profile

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 East High School  
2804 Holicong Road  
Doylestown, PA 18902**

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 22, 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.

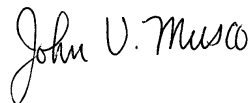
The results did not detect any exceedances at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L) with the exception of the following location:

<u>Location</u>	<u>Sample ID</u>	<u>Result</u>
Kitchen 2-bowl sink by hall door	A110A_062221	19.9 ug/L
Kitchen 1-bowl sink near coffee sales	A110C_062221	23.6 ug/L
Java sink (coffee)	A113A_062221	15.5 ug/L
Special Education	D108A_062221	18.6 ug/L
Room 225	D225_062221	37.3 ug/L
Room 221	D221_062221	18.3 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 1\_6-22-2021\_Buck\_Linden\_Cold Spring\_East\_East Stad4th\_East  
HS\East\_Lead\_Sampling\_Report\_2021.docx

July 07, 2021

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

RE: Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on June 23, 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 EAST)

Pace Project No.: 70178261

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### **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

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)

Pace Project No.: 70178261

Sample: A110A_062221	Lab ID: 70178261001	Collected: 06/22/21 09:05	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>19.9</b>	ug/L	1.0	1		07/06/21 19:19	7439-92-1	

Sample: A110B_062221	Lab ID: 70178261002	Collected: 06/22/21 09:06	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>8.1</b>	ug/L	1.0	1		07/06/21 19:22	7439-92-1	

Sample: A110C_062221	Lab ID: 70178261003	Collected: 06/22/21 09:09	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>23.6</b>	ug/L	1.0	1		07/06/21 19:23	7439-92-1	

Sample: A110D_062221	Lab ID: 70178261004	Collected: 06/22/21 09:12	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		07/06/21 19:24	7439-92-1	

Sample: A110E_062221	Lab ID: 70178261005	Collected: 06/22/21 09:13	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		07/06/21 19:25	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)

Pace Project No.: 70178261

Sample: A113A_062221	Lab ID: 70178261006	Collected: 06/22/21 09:17	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	15.5	ug/L	1.0	1		07/06/21 19:26	7439-92-1	

Sample: A109_062221	Lab ID: 70178261007	Collected: 06/22/21 09:19	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	3.1	ug/L	1.0	1		07/06/21 19:27	7439-92-1	

Sample: A109A_062221	Lab ID: 70178261008	Collected: 06/22/21 09:20	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 19:28	7439-92-1	

Sample: A107D_062221	Lab ID: 70178261009	Collected: 06/22/21 09:22	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	5.1	ug/L	1.0	1		07/06/21 19:31	7439-92-1	

Sample: C104B_062221	Lab ID: 70178261010	Collected: 06/22/21 09:28	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 19:32	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

Sample: C105E_062221	Lab ID: 70178261011	Collected: 06/22/21 09:31	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>5.9</b>	ug/L	1.0	1		07/06/21 19:33	7439-92-1	
Sample: D127D_062221	Lab ID: 70178261012	Collected: 06/22/21 09:34	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>2.1</b>	ug/L	1.0	1		07/06/21 19:36	7439-92-1	
Sample: B116B_062221	Lab ID: 70178261013	Collected: 06/22/21 09:36	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		07/06/21 19:37	7439-92-1	
Sample: GLB_062221	Lab ID: 70178261014	Collected: 06/22/21 09:39	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		07/06/21 19:38	7439-92-1	
Sample: GLC_062221	Lab ID: 70178261015	Collected: 06/22/21 09:40	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>2.2</b>	ug/L	1.0	1		07/06/21 19:39	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)

Pace Project No.: 70178261

Sample: B109F_062221	Lab ID: 70178261016	Collected: 06/22/21 09:41	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 19:40	7439-92-1	

Sample: B108_062221	Lab ID: 70178261017	Collected: 06/22/21 09:48	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	1.5	ug/L	1.0	1		07/06/21 19:43	7439-92-1	

Sample: B105_062221	Lab ID: 70178261018	Collected: 06/22/21 09:57	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	8.1	ug/L	1.0	1		07/06/21 19:43	7439-92-1	

Sample: B102_062221	Lab ID: 70178261019	Collected: 06/22/21 09:55	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 19:44	7439-92-1	

Sample: B104A_062221	Lab ID: 70178261020	Collected: 06/22/21 09:53	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 19:45	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

Sample: D108A_062221	Lab ID: 70178261021	Collected: 06/22/21 10:02	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>18.6</b>	ug/L	1.0	1		07/06/21 19:48	7439-92-1	
<b>Sample: D108B_062221</b>	<b>Lab ID: 70178261022</b>	Collected: 06/22/21 10:02	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>14.8</b>	ug/L	1.0	1		07/06/21 19:51	7439-92-1	
<b>Sample: A210A_062221</b>	<b>Lab ID: 70178261023</b>	Collected: 06/22/21 10:08	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		07/06/21 19:54	7439-92-1	
<b>Sample: A210B_062221</b>	<b>Lab ID: 70178261024</b>	Collected: 06/22/21 10:08	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>&lt;1.0</b>	ug/L	1.0	1		07/06/21 19:55	7439-92-1	
<b>Sample: A216_062221</b>	<b>Lab ID: 70178261025</b>	Collected: 06/22/21 10:10	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>5.5</b>	ug/L	1.0	1		07/06/21 19:56	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

Sample: A208_062221	Lab ID: 70178261026	Collected: 06/22/21 10:14	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>8.7</b>	ug/L	1.0	1		07/06/21 19:57	7439-92-1	

Sample: A201_062221	Lab ID: 70178261027	Collected: 06/22/21 10:16	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>10.1</b>	ug/L	1.0	1		07/06/21 19:58	7439-92-1	

Sample: C204A_062221	Lab ID: 70178261028	Collected: 06/22/21 10:18	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>3.4</b>	ug/L	1.0	1		07/06/21 19:59	7439-92-1	

Sample: C204B_062221	Lab ID: 70178261029	Collected: 06/22/21 10:18	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>3.4</b>	ug/L	1.0	1		07/06/21 20:00	7439-92-1	

Sample: C209E_062221	Lab ID: 70178261030	Collected: 06/22/21 10:20	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<b>3.4</b>	ug/L	1.0	1		07/06/21 20:01	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

Sample: D225A_062221	Lab ID: 70178261031	Collected: 06/22/21 10:22	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 20:02	7439-92-1	

Sample: D225B_062221	Lab ID: 70178261032	Collected: 06/22/21 10:22	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 20:06	7439-92-1	

Sample: D208A_062221	Lab ID: 70178261033	Collected: 06/22/21 10:34	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.1	ug/L	1.0	1		07/06/21 20:08	7439-92-1	

Sample: D208B_062221	Lab ID: 70178261034	Collected: 06/22/21 10:34	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 20:09	7439-92-1	

Sample: D208_062221	Lab ID: 70178261035	Collected: 06/22/21 10:38	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	4.4	ug/L	1.0	1		07/06/21 20:10	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

Sample: D207_062221	Lab ID: 70178261036	Collected: 06/22/21 10:40	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	<1.0	ug/L	1.0	1		07/06/21 20:10	7439-92-1	
<b>Sample: D225_062221</b>	<b>Lab ID: 70178261037</b>	Collected: 06/22/21 10:42	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	37.3	ug/L	1.0	1		07/06/21 20:11	7439-92-1	
<b>Sample: D222_062221</b>	<b>Lab ID: 70178261038</b>	Collected: 06/22/21 10:43	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	11.1	ug/L	1.0	1		07/06/21 20:12	7439-92-1	
<b>Sample: D221_062221</b>	<b>Lab ID: 70178261039</b>	Collected: 06/22/21 10:44	Received: 06/23/21 19:20	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>200.8 MET ICPMS Drinking Water</b>	Analytical Method: EPA 200.8 Pace Analytical Services - Melville							
Lead	18.3	ug/L	1.0	1		07/06/21 20:13	7439-92-1	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS (CB EAST)  
Pace Project No.: 70178261

QC Batch: 216502      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: 70178261001, 70178261002, 70178261003, 70178261004, 70178261005, 70178261006, 70178261007, 70178261008, 70178261009, 70178261010, 70178261011, 70178261012, 70178261013, 70178261014, 70178261015, 70178261016, 70178261017, 70178261018, 70178261019, 70178261020

METHOD BLANK: 1090202      Matrix: Water  
Associated Lab Samples: 70178261001, 70178261002, 70178261003, 70178261004, 70178261005, 70178261006, 70178261007, 70178261008, 70178261009, 70178261010, 70178261011, 70178261012, 70178261013, 70178261014, 70178261015, 70178261016, 70178261017, 70178261018, 70178261019, 70178261020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/06/21 19:16	

LABORATORY CONTROL SAMPLE: 1090203

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	49.8	100	85-115	

MATRIX SPIKE SAMPLE: 1090205

Parameter	Units	70178261001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	19.9	50	72.4	105	70-130	

MATRIX SPIKE SAMPLE: 1090207

Parameter	Units	70178261011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	5.9	50	63.0	114	70-130	

SAMPLE DUPLICATE: 1090204

Parameter	Units	70178261001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	19.9	19.7	1	

SAMPLE DUPLICATE: 1090206

Parameter	Units	70178261011 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	5.9	5.9	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 EAST)

Pace Project No.: 70178261

QC Batch:	216503	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:	70178261021, 70178261022, 70178261023, 70178261024, 70178261025, 70178261026, 70178261027, 70178261028, 70178261029, 70178261030, 70178261031, 70178261032, 70178261033, 70178261034, 70178261035, 70178261036, 70178261037, 70178261038, 70178261039		

METHOD BLANK:	1090208	Matrix:	Water
Associated Lab Samples:	70178261021, 70178261022, 70178261023, 70178261024, 70178261025, 70178261026, 70178261027, 70178261028, 70178261029, 70178261030, 70178261031, 70178261032, 70178261033, 70178261034, 70178261035, 70178261036, 70178261037, 70178261038, 70178261039		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	07/06/21 19:46	

LABORATORY CONTROL SAMPLE:	1090209					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	50.9	102	85-115	

MATRIX SPIKE SAMPLE:	1090211						
Parameter	Units	70178261021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	18.6	50	77.4	118	70-130	

MATRIX SPIKE SAMPLE:	1090213						
Parameter	Units	70178261031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	50	60.3	119	70-130	

SAMPLE DUPLICATE:	1090210					
Parameter	Units	70178261021 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	18.6	18.7	0		

SAMPLE DUPLICATE:	1090212					
Parameter	Units	70178261031 Result	Dup Result	RPD	Qualifiers	
Lead	ug/L	<1.0	<1.0			

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

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## QUALIFIERS

Project: CENTRAL BUCKS (CB EAST)

Pace Project No.: 70178261

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### 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 (CB EAST)

Pace Project No.: 70178261

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70178261001	A110A_062221	EPA 200.8	216502		
70178261002	A110B_062221	EPA 200.8	216502		
70178261003	A110C_062221	EPA 200.8	216502		
70178261004	A110D_062221	EPA 200.8	216502		
70178261005	A110E_062221	EPA 200.8	216502		
70178261006	A113A_062221	EPA 200.8	216502		
70178261007	A109_062221	EPA 200.8	216502		
70178261008	A109A_062221	EPA 200.8	216502		
70178261009	A107D_062221	EPA 200.8	216502		
70178261010	C104B_062221	EPA 200.8	216502		
70178261011	C105E_062221	EPA 200.8	216502		
70178261012	D127D_062221	EPA 200.8	216502		
70178261013	B116B_062221	EPA 200.8	216502		
70178261014	GLB_062221	EPA 200.8	216502		
70178261015	GLC_062221	EPA 200.8	216502		
70178261016	B109F_062221	EPA 200.8	216502		
70178261017	B108_062221	EPA 200.8	216502		
70178261018	B105_062221	EPA 200.8	216502		
70178261019	B102_062221	EPA 200.8	216502		
70178261020	B104A_062221	EPA 200.8	216502		
70178261021	D108A_062221	EPA 200.8	216503		
70178261022	D108B_062221	EPA 200.8	216503		
70178261023	A210A_062221	EPA 200.8	216503		
70178261024	A210B_062221	EPA 200.8	216503		
70178261025	A216_062221	EPA 200.8	216503		
70178261026	A208_062221	EPA 200.8	216503		
70178261027	A201_062221	EPA 200.8	216503		
70178261028	C204A_062221	EPA 200.8	216503		
70178261029	C204B_062221	EPA 200.8	216503		
70178261030	C209E_062221	EPA 200.8	216503		
70178261031	D225A_062221	EPA 200.8	216503		
70178261032	D225B_062221	EPA 200.8	216503		
70178261033	D208A_062221	EPA 200.8	216503		
70178261034	D208B_062221	EPA 200.8	216503		
70178261035	D208_062221	EPA 200.8	216503		
70178261036	D207_062221	EPA 200.8	216503		
70178261037	D225_062221	EPA 200.8	216503		
70178261038	D222_062221	EPA 200.8	216503		
70178261039	D221_062221	EPA 200.8	216503		

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

**WO#: 70178261**



**Section A**

**Section B**

**Section C**

**Required Client Information:**

**Required Project Information:**

**Invoice Information:**

Company: Langan Engineering	Report To: Bill Lambing	Attention: Bill Lambing
Address: 2700 Kelly Road, Suite 200 Warrington, PA 18976	Copy To:	Company Name: Langan Engineering Address: 2700 Kelly Road, Suite 200
Email: blambing@langan.com	Purchase Order #: 200130402-400-001	Pace Quote: See Langan-Pace MSA
Phone: 215-491-6500 Fax 2015-491-6501	Project Name: Central Bucks School District (CB East)	Pace Project Manager: sophia.sparkes@pacelabs.com,
Requested Due Date: Standard Turn Around (5 day)	Project #: 200130402	Pace Profile #: 7983

**Regulatory Agency**  
PA

**State / Location**

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)			
				START		END			# OF CONTAINERS	Preservatives												
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test				
										200.7 Metals (PB)												
1	A110A_062221	DW	G	6/22/2021	905	6/22/2021	905	1		X								X				
2	A110B_062221	DW	G	6/22/2021	906	6/22/2021	906	1		X								X				
3	A110C_062221	DW	G	6/22/2021	909	6/22/2021	909	1		X								X				
4	A110D_062221	DW	G	6/22/2021	912	6/22/2021	912	1		X								X				
5	A110E_062221	DW	G	6/22/2021	913	6/22/2021	913	1		X								X				
6	A113A_062221	DW	G	6/22/2021	917	6/22/2021	917	1		X								X				
7	A109_062221	DW	G	6/22/2021	919	6/22/2021	919	1		X								X				
8	A109A_062221	DW	G	6/22/2021	920	6/22/2021	920	1		X								X				
9	A107D_062221	DW	G	6/22/2021	922	6/22/2021	922	1		X								X				
10	C104B_062221	DW	G	6/22/2021	928	6/22/2021	928	1		X								X				
11	C105E_062221	DW	G	6/22/2021	931	6/22/2021	931	1		X								X				
12	D127D_062221	DW	G	6/22/2021	934	6/22/2021	934	1		X								X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	<i>Bill Lambing</i>	6/23/2021		<i>Joe [unclear]</i>	6/23/2021	12:00			
	<i>James [unclear]</i>	6/24/2021	16:50	<i>Michael [unclear]</i>	6/23/2021	16:00			
			19:20			19:20			

<b>SAMPLER NAME AND SIGNATURE</b>		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>					





# CHAIN-OF-CUSTODY / Analytical Request D

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

**WO# : 70178261**

**PM: STS**      **Due Date: 07/09/21**

**CLIENT: LAN-PA**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice 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: <a href="mailto:blambing@langan.com">blambing@langan.com</a>	Phone: 215-491-6500	Purchase Order #: 200130402-400-001	Project Name: Central Bucks School District (CB East)	Pace Quote: See Langan-Pace MSA	Pace Project Manager: sophia.sparkes@pacelabs.com,
Fax: 2015-491-6501	Requested Due Date: Standard Turn Around (5 day)	Project #: 200130402		Pace Profile #: 7983	
				<b>Regulatory Agency</b>	
				<b>State / Location</b>	
				PA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX 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								Analyses Test 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													
1	A216_062221	DW	G		G	6/22/2021	1010	6/22/2021	1010		1			X							X	
2	A208_062221	DW	G		G	6/22/2021	1014	6/22/2021	1014		1			X							X	
3	A201_062221	DW	G		G	6/22/2021	1016	6/22/2021	1016		1			X							X	
4	C204A_062221	DW	G		G	6/22/2021	1018	6/22/2021	1018		1			X							X	
5	C204B_062221	DW	G		G	6/22/2021	1018	6/22/2021	1018		1			X							X	
6	C209E_062221	DW	G		G	6/22/2021	1020	6/22/2021	1020		1			X							X	
7	D225A_062221	DW	G		G	6/22/2021	1022	6/22/2021	1022		1			X							X	
8	D225B_062221	DW	G		G	6/22/2021	1022	6/22/2021	1022		1			X							X	
9	D208A_062221	DW	G		G	6/22/2021	1034	6/22/2021	1034		1			X							X	
10	D208B_062221	DW	G		G	6/22/2021	1034	6/22/2021	1034		1			X							X	
11	D208_062221	DW	G		G	6/22/2021	1038	6/22/2021	1038		1			X							X	
12	D207_062221	DW	G		G	6/22/2021	1040	6/22/2021	1040		1			X							X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Bill Lambing</i>	6/23/2021	12:00	<i>Paul Owen</i>	6/23/2021	12:00	
	<i>[Signature]</i>	6/23/21	15:30	<i>[Signature]</i>	6/23/21	1600	
	<i>[Signature]</i>	6/23/21	1920	<i>[Signature]</i>	6/23/21	1920	

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: 6/23/2021				



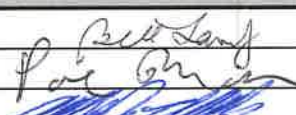
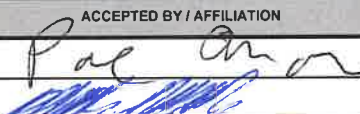
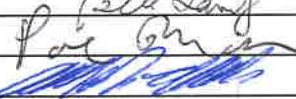


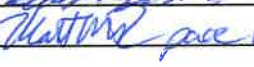



# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Regulatory Agency
<b>Company:</b> Langan Engineering		<b>Report To:</b> Bill Lambing		<b>Attention:</b> Bill Lambing		
<b>Address:</b> 2700 Kelly Road, Suite 200		<b>Copy To:</b>		<b>Company Name:</b> Langan Engineering		State / Location
<b>Warrington, PA 18976</b>		<b>Purchase Order #:</b> 200130402-400-001		<b>Address:</b> 2700 Kelly Road, Suite 200		
<b>Email:</b> blambing@langan.com		<b>Project Name:</b> Central Bucks School District (CB East)		<b>Pace Quote:</b> See Langan-Pace MSA		PA
<b>Phone:</b> 215-491-6500 <b>Fax:</b> 2015-491-6501		<b>Project #:</b> 200130402		<b>Pace Project Manager:</b> sophia.sparkes@pacelabs.com,		
<b>Requested Due Date:</b> Standard Turn Around (5 day)				<b>Pace Profile #:</b> 7983		

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	Requested Analysis Filtered (Y/N)								Residual Chlorine (Y/N)					
						START		END			# OF CONTAINERS	Preservatives												
						DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Analyses Test	200.7 Metals (PB)		
1	D225_062221	DW	G	6/22/2021	1042	6/22/2021	1042	1		X														
2	D222_062221	DW	G	6/22/2021	1043	6/22/2021	1043	1		X														
3	D221_062221	DW	G	6/22/2021	1044	6/22/2021	1044	1		X														
4																								
5																								
6																								
7																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		6/23/2021			6/23/2021	12:11	
		6/23/21	16:30		6/23/21	1600	
		6/23/21	1920		6/23/21	1920	

<b>SAMPLER NAME AND SIGNATURE</b>		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:					
DATE Signed:		6/23/2021			



# Sample Condition Upon Receipt

## WO#: 70178261

Client Name: NJProject: **PM: STS** Due Date: **07/09/21**  
**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: TH091     Correction Factor: +0.0Cooler Temperature(°C): 23.2    Cooler Temperature Corrected(°C): 23.2

Temp should be above freezing to 6.0°C

USDA Regulated Soil (  N/A, water sample)Temperature Blank Present:  Yes  NoType of Ice: ~~Wed~~ Blue None Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: J.I 1920 6/23/21Did 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	10.
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 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 <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot # <u>HC155968</u>		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , 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: Analysis pulled from profile

\* PM (Project Manager) review is documented electronically in LIMS.