

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
Warwick Elementary School
1340 Almshouse Road
Jamison, PA 18929**

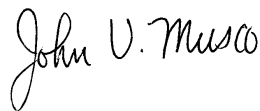
Dear Mr. Hanna:

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 1, 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\DY\data4\200130403\Project Data\Record Data\Reports\Day 5_7-1-2021_Bridge
Valley_Warwick_Jamison\2nd_Warwick\Warwick_Lead_Sampling_Report_2021.docx

July 15, 2021

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

RE: Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

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 SD (WARWICK)

Pace Project No.: 70179823

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 (WARWICK)
Pace Project No.: 70179823

| Sample: W1_070121 | Lab ID: 70179823001 | Collected: 07/01/21 07:27 | 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 | | 07/15/21 11:25 | 7439-92-1 | |
| Sample: W2_070121 | Lab ID: 70179823002 | Collected: 07/01/21 07:26 | 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 | | 07/15/21 11:28 | 7439-92-1 | |
| Sample: W1F_070121 | Lab ID: 70179823003 | Collected: 07/01/21 07:26 | 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 | | 07/15/21 11:29 | 7439-92-1 | |
| Sample: W3_070121 | Lab ID: 70179823004 | Collected: 07/01/21 07:27 | 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 | | 07/15/21 11:30 | 7439-92-1 | |
| Sample: W4_070121 | Lab ID: 70179823005 | Collected: 07/01/21 07:25 | 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 | | 07/15/21 11:31 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| Sample: W5_070121 | Lab ID: 70179823006 | Collected: 07/01/21 07:30 | 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 | 2.7 | ug/L | 1.0 | 1 | | 07/15/21 11:32 | 7439-92-1 | |
| Sample: W6_070121 | Lab ID: 70179823007 | Collected: 07/01/21 07:30 | 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 | 3.4 | ug/L | 1.0 | 1 | | 07/15/21 11:35 | 7439-92-1 | |
| Sample: W7_070121 | Lab ID: 70179823008 | Collected: 07/01/21 07:32 | 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 | | 07/15/21 11:36 | 7439-92-1 | |
| Sample: W8_070121 | Lab ID: 70179823009 | Collected: 07/01/21 07:32 | 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 | | 07/15/21 11:37 | 7439-92-1 | |
| Sample: W41F_070121 | Lab ID: 70179823010 | Collected: 07/01/21 07:34 | 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 | | 07/15/21 11:38 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| Sample: W41_070121 | Lab ID: 70179823011 | Collected: 07/01/21 07:35 | 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 | | 07/15/21 11:39 | 7439-92-1 | |

| Sample: WK_070121 | Lab ID: 70179823012 | Collected: 07/01/21 07:38 | 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 | | 07/15/21 11:42 | 7439-92-1 | |

| Sample: W11_070121 | Lab ID: 70179823013 | Collected: 07/01/21 07:44 | 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 | | 07/15/21 11:43 | 7439-92-1 | |

| Sample: W12_070121 | Lab ID: 70179823014 | Collected: 07/01/21 07:44 | 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 | | 07/15/21 11:44 | 7439-92-1 | |

| Sample: W13_070121 | Lab ID: 70179823015 | Collected: 07/01/21 07:42 | Received: 07/06/21 19:20 | Matrix: Drinking Water | | | | |
|--------------------|---------------------|---------------------------|--------------------------|------------------------|----------|----------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | |
|---------------------------------------|---|------|-----|---|--|----------------|-----------|--|
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | 7.3 | ug/L | 1.0 | 1 | | 07/15/21 11:46 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| Sample: W14_070121 | Lab ID: 70179823016 | Collected: 07/01/21 07:41 | 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 | 1.8 | ug/L | 1.0 | 1 | | 07/15/21 11:47 | 7439-92-1 | |

| Sample: W15_070121 | Lab ID: 70179823017 | Collected: 07/01/21 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 | | 07/15/21 11:48 | 7439-92-1 | |

| Sample: W16_070121 | Lab ID: 70179823018 | Collected: 07/01/21 07:39 | Received: 07/06/21 19:20 | Matrix: Drinking Water | | | | |
|--------------------|---------------------|---------------------------|--------------------------|------------------------|----------|----------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | |
|---------------------------------------|---|------|-----|---|--|----------------|-----------|--|
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | 7.2 | ug/L | 1.0 | 1 | | 07/15/21 11:49 | 7439-92-1 | |

| Sample: W18_070121 | Lab ID: 70179823019 | Collected: 07/01/21 07:55 | Received: 07/06/21 19:20 | Matrix: Drinking Water | | | | |
|--------------------|---------------------|---------------------------|--------------------------|------------------------|----------|----------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | |
|---------------------------------------|---|------|-----|---|--|----------------|-----------|--|
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | 1.7 | ug/L | 1.0 | 1 | | 07/15/21 11:50 | 7439-92-1 | |

| Sample: W19_070121 | Lab ID: 70179823020 | Collected: 07/01/21 07:56 | Received: 07/06/21 19:20 | Matrix: Drinking Water | | | | |
|--------------------|---------------------|---------------------------|--------------------------|------------------------|----------|----------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | |
|---------------------------------------|---|------|-----|---|--|----------------|-----------|--|
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | 3.8 | ug/L | 1.0 | 1 | | 07/15/21 11:51 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| Sample: W21_070121 | Lab ID: 70179823021 | Collected: 07/01/21 08:03 | 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 | 2.1 | ug/L | 1.0 | 1 | | 07/15/21 11:54 | 7439-92-1 | |
| Sample: W22_070121 | Lab ID: 70179823022 | Collected: 07/01/21 08:04 | 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 | | 07/15/21 11:59 | 7439-92-1 | |
| Sample: W23_070121 | Lab ID: 70179823023 | Collected: 07/01/21 08:06 | 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 | <1.0 | ug/L | 1.0 | 1 | | 07/15/21 12:00 | 7439-92-1 | |
| Sample: W24_070121 | Lab ID: 70179823024 | Collected: 07/01/21 08:07 | 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 | | 07/15/21 12:01 | 7439-92-1 | |
| Sample: W25_070121 | Lab ID: 70179823025 | Collected: 07/01/21 08:09 | 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 | | 07/15/21 12:01 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| Sample: W26_070121 | Lab ID: 70179823026 | Collected: 07/01/21 08:09 | 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 | 4.6 | ug/L | 1.0 | 1 | | 07/15/21 12:03 | 7439-92-1 | |

| Sample: W27_070121 | Lab ID: 70179823027 | Collected: 07/01/21 08:08 | 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 | 1.9 | ug/L | 1.0 | 1 | | 07/15/21 12:03 | 7439-92-1 | |

| Sample: W28_070121 | Lab ID: 70179823028 | Collected: 07/01/21 08:06 | 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 | 1.1 | ug/L | 1.0 | 1 | | 07/15/21 12:04 | 7439-92-1 | |

| Sample: W29_070121 | Lab ID: 70179823029 | Collected: 07/01/21 08:05 | 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 | 2.0 | ug/L | 1.0 | 1 | | 07/15/21 12:05 | 7439-92-1 | |

| Sample: W30_070121 | Lab ID: 70179823030 | Collected: 07/01/21 08:03 | 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 | | 07/15/21 12:06 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| Sample: W31_070121 | Lab ID: 70179823031 | Collected: 07/01/21 08:01 | 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 | | 07/15/21 12:09 | 7439-92-1 | |

| Sample: W40_070121 | Lab ID: 70179823032 | Collected: 07/01/21 07:59 | 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 | 6.1 | ug/L | 1.0 | 1 | | 07/15/21 12:12 | 7439-92-1 | |

| Sample: W40F_070121 | Lab ID: 70179823033 | Collected: 07/01/21 08:00 | 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 | <1.0 | ug/L | 1.0 | 1 | | 07/15/21 12:13 | 7439-92-1 | |

| Sample: W32_070121 | Lab ID: 70179823034 | Collected: 07/01/21 07:58 | 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 | | 07/15/21 12:14 | 7439-92-1 | |

| Sample: W33_070121 | Lab ID: 70179823035 | Collected: 07/01/21 07:57 | Received: 07/06/21 19:20 | Matrix: Drinking Water | | | | |
|--------------------|---------------------|---------------------------|--------------------------|------------------------|----------|----------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | |
|---------------------------------------|---|------|-----|---|--|----------------|-----------|--|
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | 3.7 | ug/L | 1.0 | 1 | | 07/15/21 12:15 | 7439-92-1 | |

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS SD (WARWICK)

Pace Project No.: 70179823

| Sample: WNF_070121 | Lab ID: 70179823036 | Collected: 07/01/21 07:50 | 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 | | 07/15/21 12:16 | 7439-92-1 | |

| Sample: WNE_070121 | Lab ID: 70179823037 | Collected: 07/01/21 07:53 | 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 | 2.4 | ug/L | 1.0 | 1 | | 07/15/21 12:17 | 7439-92-1 | |

| Sample: WN1_070121 | Lab ID: 70179823038 | Collected: 07/01/21 07:52 | Received: 07/06/21 19:20 | Matrix: Drinking Water | | | | |
|---------------------------|----------------------------|---------------------------|--------------------------|------------------------|----------|----------|---------|------|
| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |

| | | | | | | | | |
|---------------------------------------|---|------|-----|---|--|----------------|-----------|--|
| 200.8 MET ICPMS Drinking Water | Analytical Method: EPA 200.8 Pace Analytical Services - Melville | | | | | | | |
| Lead | <1.0 | ug/L | 1.0 | 1 | | 07/15/21 12:18 | 7439-92-1 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS SD (WARWICK)
Pace Project No.: 70179823

| | | | |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch: | 217724 | 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: 70179823001, 70179823002, 70179823003, 70179823004, 70179823005, 70179823006, 70179823007, 70179823008, 70179823009, 70179823010, 70179823011, 70179823012, 70179823013, 70179823014, 70179823015, 70179823016, 70179823017, 70179823018, 70179823019, 70179823020

METHOD BLANK: 1097283 Matrix: Water

Associated Lab Samples: 70179823001, 70179823002, 70179823003, 70179823004, 70179823005, 70179823006, 70179823007, 70179823008, 70179823009, 70179823010, 70179823011, 70179823012, 70179823013, 70179823014, 70179823015, 70179823016, 70179823017, 70179823018, 70179823019, 70179823020

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead | ug/L | <1.0 | 1.0 | 07/15/21 11:23 | |

LABORATORY CONTROL SAMPLE: 1097284

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

MATRIX SPIKE SAMPLE: 1097286

| Parameter | Units | 70179823001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Lead | ug/L | <1.0 | 50 | 54.4 | 108 | 70-130 | |

MATRIX SPIKE SAMPLE: 1097288

| Parameter | Units | 70179823011 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Lead | ug/L | <1.0 | 50 | 57.9 | 115 | 70-130 | |

SAMPLE DUPLICATE: 1097285

| Parameter | Units | 70179823001 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Lead | ug/L | <1.0 | <1.0 | | |

SAMPLE DUPLICATE: 1097287

| Parameter | Units | 70179823011 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 SD (WARWICK)
Pace Project No.: 70179823

| | | | |
|------------------|-----------|-----------------------|-------------------------------------|
| QC Batch: | 217726 | 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: 70179823021, 70179823022, 70179823023, 70179823024, 70179823025, 70179823026, 70179823027, 70179823028, 70179823029, 70179823030, 70179823031, 70179823032, 70179823033, 70179823034, 70179823035, 70179823036, 70179823037, 70179823038

METHOD BLANK: 1097291 Matrix: Water
Associated Lab Samples: 70179823021, 70179823022, 70179823023, 70179823024, 70179823025, 70179823026, 70179823027, 70179823028, 70179823029, 70179823030, 70179823031, 70179823032, 70179823033, 70179823034, 70179823035, 70179823036, 70179823037, 70179823038

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Lead | ug/L | <1.0 | 1.0 | 07/15/21 11:52 | |

LABORATORY CONTROL SAMPLE: 1097292

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Lead | ug/L | 50 | 50.0 | 100 | 85-115 | |

MATRIX SPIKE SAMPLE: 1097294

| Parameter | Units | 70179823021 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Lead | ug/L | 2.1 | 50 | 57.2 | 110 | 70-130 | |

MATRIX SPIKE SAMPLE: 1097296

| Parameter | Units | 70179823031 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|--------------------|-------------|-----------|----------|--------------|------------|
| Lead | ug/L | <1.0 | 50 | 54.0 | 106 | 70-130 | |

SAMPLE DUPLICATE: 1097293

| Parameter | Units | 70179823021 Result | Dup Result | RPD | Qualifiers |
|-----------|-------|--------------------|------------|-----|------------|
| Lead | ug/L | 2.1 | 2.0 | 2 | |

SAMPLE DUPLICATE: 1097295

| Parameter | Units | 70179823031 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 (WARWICK)

Pace Project No.: 70179823

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 SD (WARWICK)
Pace Project No.: 70179823

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-------------|-----------------|----------|-------------------|------------------|
| 70179823001 | W1_070121 | EPA 200.8 | 217724 | | |
| 70179823002 | W2_070121 | EPA 200.8 | 217724 | | |
| 70179823003 | W1F_070121 | EPA 200.8 | 217724 | | |
| 70179823004 | W3_070121 | EPA 200.8 | 217724 | | |
| 70179823005 | W4_070121 | EPA 200.8 | 217724 | | |
| 70179823006 | W5_070121 | EPA 200.8 | 217724 | | |
| 70179823007 | W6_070121 | EPA 200.8 | 217724 | | |
| 70179823008 | W7_070121 | EPA 200.8 | 217724 | | |
| 70179823009 | W8_070121 | EPA 200.8 | 217724 | | |
| 70179823010 | W41F_070121 | EPA 200.8 | 217724 | | |
| 70179823011 | W41_070121 | EPA 200.8 | 217724 | | |
| 70179823012 | WK_070121 | EPA 200.8 | 217724 | | |
| 70179823013 | W11_070121 | EPA 200.8 | 217724 | | |
| 70179823014 | W12_070121 | EPA 200.8 | 217724 | | |
| 70179823015 | W13_070121 | EPA 200.8 | 217724 | | |
| 70179823016 | W14_070121 | EPA 200.8 | 217724 | | |
| 70179823017 | W15_070121 | EPA 200.8 | 217724 | | |
| 70179823018 | W16_070121 | EPA 200.8 | 217724 | | |
| 70179823019 | W18_070121 | EPA 200.8 | 217724 | | |
| 70179823020 | W19_070121 | EPA 200.8 | 217724 | | |
| 70179823021 | W21_070121 | EPA 200.8 | 217726 | | |
| 70179823022 | W22_070121 | EPA 200.8 | 217726 | | |
| 70179823023 | W23_070121 | EPA 200.8 | 217726 | | |
| 70179823024 | W24_070121 | EPA 200.8 | 217726 | | |
| 70179823025 | W25_070121 | EPA 200.8 | 217726 | | |
| 70179823026 | W26_070121 | EPA 200.8 | 217726 | | |
| 70179823027 | W27_070121 | EPA 200.8 | 217726 | | |
| 70179823028 | W28_070121 | EPA 200.8 | 217726 | | |
| 70179823029 | W29_070121 | EPA 200.8 | 217726 | | |
| 70179823030 | W30_070121 | EPA 200.8 | 217726 | | |
| 70179823031 | W31_070121 | EPA 200.8 | 217726 | | |
| 70179823032 | W40_070121 | EPA 200.8 | 217726 | | |
| 70179823033 | W40F_070121 | EPA 200.8 | 217726 | | |
| 70179823034 | W32_070121 | EPA 200.8 | 217726 | | |
| 70179823035 | W33_070121 | EPA 200.8 | 217726 | | |
| 70179823036 | WNF_070121 | EPA 200.8 | 217726 | | |
| 70179823037 | WNE_070121 | EPA 200.8 | 217726 | | |
| 70179823038 | WN1_070121 | EPA 200.8 | 217726 | | |

REPORT OF LABORATORY ANALYSIS

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

WO# : 70179823



| Section A Required Client Information: | Section B Required Project Information: | Section C Invoice Information: | |
|--|---|---|-------------------|
| Company: Langan Engineering | Report To: Bill Lambing | Attention: Bill Lambing | Regulatory Agency |
| Address: 2700 Kelly Road, Suite 200 | Copy To: | Company Name: Langan Engineering | |
| Warrington, PA 18976 | Purchase Order #: 200130403-400-001 | Address: 2700 Kelly Road, Suite 200 | |
| Email: blaming@langan.com | Project Name: Central Bucks School District (Warwick) | Address: 2700 Kelly Road, Suite 200 | |
| Phone: 215-491-6500 Fax 2015-491-6501 | Project #: 200130403 | Pace Quote: See Langan-Pace MSA | State / Location |
| Requested Due Date: Standard Turn Around (5 day) | | Pace Project Manager: sophia.sparkes@pacelabs.com | PA |
| | | Pace Profile #: 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 | Preservatives | | | | | | | | | | Y/N | Requested Analysis Filtered (Y/N) | | | | | | | | | | Residual Chlorine (Y/N) | |
|--------|--|--|---|--|-----------|------|----------|------|---------------------------|-----------------|-------------|-------|------|-----|------|---------|----------|-------|------------------|-----|-----------------------------------|--|--|--|--|--|--|--|--|--|-------------------------|--|
| | | | | | START | | END | | | # OF CONTAINERS | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | | | | | | | | | | | | | |
| | | | | | DATE | TIME | DATE | TIME | | | | | | | | | | | 2007 Metals (PB) | | | | | | | | | | | | | |
| 1 | W1_070121 | DW | G | G | 7/1/2021 | 727 | 7/1/2021 | 727 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 2 | W2_070121 | DW | G | G | 7/1/2021 | 726 | 7/1/2021 | 726 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 3 | W1F_070121 | DW | G | G | 7/1/2021 | 726 | 7/1/2021 | 726 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 4 | W3_070121 | DW | G | G | 7/1/2021 | 727 | 7/1/2021 | 727 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 5 | W4_070121 | DW | G | G | 7/1/2021 | 725 | 7/1/2021 | 725 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 6 | W5_070121 | DW | G | G | 7/1/2021 | 730 | 7/1/2021 | 730 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 7 | W6_070121 | DW | G | G | 7/1/2021 | 730 | 7/1/2021 | 730 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 8 | W7_070121 | DW | G | G | 7/1/2021 | 732 | 7/1/2021 | 732 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 9 | W8_070121 | DW | G | G | 7/1/2021 | 732 | 7/1/2021 | 732 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 10 | W41F_070121 | DW | G | G | 7/1/2021 | 734 | 7/1/2021 | 734 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 11 | W41_070121 | DW | G | G | 7/1/2021 | 735 | 7/1/2021 | 735 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |
| 12 | WK_070121 | DW | G | G | 7/1/2021 | 738 | 7/1/2021 | 738 | 1 | | | | X | | | | | | X | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | |
|---------------------|-------------------------------|----------|------|---------------------------|----------|------|-------------------|--|--|
| | <i>Bill Lambing</i> | 7/2/2021 | 1200 | <i>Pat...</i> | 7/2/2021 | 1200 | | | |
| | <i>Pat...</i> | 7/6/21 | 1515 | <i>Pat...</i> | 7/6/21 | 1200 | | | |
| | <i>Pat...</i> | 7/6/21 | 1920 | <i>Pat...</i> | 7/6/21 | 1920 | | | |

| 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: Bill Lambing | | | | | | |
| SIGNATURE of SAMPLER: <i>Bill Lambing</i> | | | | | | |



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: | | Section B Required Project Information: | | Section C Invoice Information: | | Regulatory Agency | |
| Company: Langan Engineering | | Report To: Bill Lambing | | Attention: Bill Lambing | | | |
| Address: 2700 Kelly Road, Suite 200 | | Copy To: | | Company Name: Langan Engineering | | | |
| Warrington, PA 18976 | | | | Address: 2700 Kelly Road, Suite 200 | | | |
| Email: blambing@langan.com | | Purchase Order #: 200130403-400-001 | | Pace Quote: See Langan-Pace MSA | | | |
| Phone: 215-491-6500 Fax 2015-491-6501 | | Project Name: Central Bucks School District (Warwick) | | Pace Project Manager: sophia.sparkes@pacelabs.com, | | State / Location | |
| Requested Due Date: Standard Turn Around (5 day) | | Project #: 200130403 | | Pace Profile #: 7983 | | PA | |

| ITEM # | 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) | Residual Chlorine (Y/N) | Requested Analysis Filtered (Y/N) | | | | | |
|--------|---------------------------------------|-----------------------------|-----------|------|----------|------|---------------------------|-----------------|---------------|-------|------|-----|------|---------|----------|-------|---------------|-------------------|-------------------------|-----------------------------------|--|--|--|--|--|
| | | | START | | END | | | | Unpreserved | H2SO4 | HNO3 | HCl | NaOH | Na2S2O3 | Methanol | Other | | | | | | | | | |
| | | | DATE | TIME | DATE | TIME | | | | | | | | | | | | | | | | | | | |
| 13 | W11_070121 | DW G | 7/1/2021 | 744 | 7/1/2021 | 744 | 1 | | | X | | | | | | | X | | | | | | | | |
| 14 | W12_070121 | DW G | 7/1/2021 | 744 | 7/1/2021 | 744 | 1 | | | X | | | | | | | X | | | | | | | | |
| 15 | W13_070121 | DW G | 7/1/2021 | 742 | 7/1/2021 | 742 | 1 | | | X | | | | | | | X | | | | | | | | |
| 16 | W14_070121 | DW G | 7/1/2021 | 741 | 7/1/2021 | 741 | 1 | | | X | | | | | | | X | | | | | | | | |
| 17 | W15_070121 | DW G | 7/1/2021 | 740 | 7/1/2021 | 740 | 1 | | | X | | | | | | | X | | | | | | | | |
| 18 | W16_070121 | DW G | 7/1/2021 | 739 | 7/1/2021 | 739 | 1 | | | X | | | | | | | X | | | | | | | | |
| 19 | W18_070121 | DW G | 7/1/2021 | 755 | 7/1/2021 | 755 | 1 | | | X | | | | | | | X | | | | | | | | |
| 20 | W19_070121 | DW G | 7/1/2021 | 756 | 7/1/2021 | 756 | 1 | | | X | | | | | | | X | | | | | | | | |
| 21 | W21_070121 | DW G | 7/1/2021 | 803 | 7/1/2021 | 803 | 1 | | | X | | | | | | | X | | | | | | | | |
| 22 | W22_070121 | DW G | 7/1/2021 | 804 | 7/1/2021 | 804 | 1 | | | X | | | | | | | X | | | | | | | | |
| 23 | W23_070121 | DW G | 7/1/2021 | 806 | 7/1/2021 | 806 | 1 | | | X | | | | | | | X | | | | | | | | |
| 24 | W24_070121 | DW G | 7/1/2021 | 807 | 7/1/2021 | 807 | 1 | | | X | | | | | | | X | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS |
|---------------------|-------------------------------|----------|------|---------------------------|----------|------|-------------------|
| | <i>Bill Lambing</i> | 7/2/2021 | 1200 | <i>Bill Lambing</i> | 7/2/2021 | 1200 | |
| | <i>John G. ety</i> | 7/6/21 | 1658 | <i>John G. ety</i> | 7/6/21 | 1620 | |
| | <i>John G. ety</i> | 7/6/21 | 1920 | <i>John G. ety</i> | 7/6/21 | 1920 | |

| | | | | | | |
|---|--|-----------|-----------------------|----------------------|--------------|----------------------|
| 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: Bill Lambing | | | | | | |
| SIGNATURE of SAMPLER: <i>Bill Lambing</i> | | | | | | |



Sample Condition Upon Receipt

WO#: 70179823

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 No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: H091 Correction Factor: +0.0
 Cooler Temperature(°C): 19.0 Cooler Temperature Corrected(°C): 19.0

Temperature Blank Present: Yes No
 Type of Ice: Wet Blue None
 Samples on ice, cooling process has begun
 Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C
 USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: 19.7.16/21

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

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

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

| | | COMMENTS: |
|--|--|--|
| Chain of Custody Present: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 1. |
| Chain of Custody Filled Out: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 2. |
| Chain of Custody Relinquished: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 3. |
| Sampler Name & Signature on COC: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4. |
| Samples Arrived within Hold Time: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 5. |
| Short Hold Time Analysis (<72hr): | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 6. |
| Rush Turn Around Time Requested: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 7. |
| Sufficient Volume: (Triple volume provided for) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 8. |
| Correct Containers Used: | <input 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: SL <u>(WT)</u> OIL | | |
| All containers needing preservation have been checked? | <input 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: | <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: _____

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