

August 17, 2020

Robert Kleimenhagen, Jr., CFM
Director of Facilities & Energy Management Operations
Central Bucks School District
320 West Swamp Road
Doylestown, PA 18901

**Re: Lead in Drinking Water Re-Sample Collection and Reporting
Warwick Elementary School
1340 Almshouse Road
Jamison, PA 18929
Bucks County, Pennsylvania**

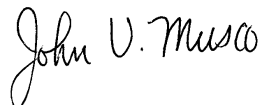
Dear Mr. Kleimenhagen:

This document has been prepared by Langan to provide the results of the drinking water re-sampling activities at the above referenced school. The results of the initial drinking water sampling activities documented that total lead was present in one sample collected from a drinking water fixture at the school at a level above the 15 micrograms per liter (ug/l) regulatory level. The re-sampling was conducted on July 31, 2020 after the former fixture was replaced with a new fixture. The collected re-sample was 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 exceedance at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L).

A field sketch of the sampling location 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\200130402\Project Data\Record Data\Reports\Resampling Data and Report\Warwick_Lead_Re-Sampling_Memo.docx

August 14, 2020

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

RE: Project: CENTRAL BUCKS (WARWICK)
Pace Project No.: 70140402

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on August 01, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

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 (WARWICK)

Pace Project No.: 70140402

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

New York Certification #: 10478 Primary Accrediting Body

New Jersey Certification #: NY158

Pennsylvania Certification #: 68-00350

Connecticut Certification #: PH-0435

Maryland Certification #: 208

Rhode Island Certification #: LAO00340

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

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ANALYTICAL RESULTS

Project: CENTRAL BUCKS (WARWICK)

Pace Project No.: 70140402

Sample: W25R-20		Lab ID: 70140402001	Collected: 07/31/20 09:51	Received: 08/01/20 11:35	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		08/13/20 20:43	7439-92-1	

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QUALITY CONTROL DATA

Project: CENTRAL BUCKS (WARWICK)
Pace Project No.: 70140402

QC Batch: 172052 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: 70140402001

METHOD BLANK: 832899 Matrix: Water
Associated Lab Samples: 70140402001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	08/13/20 20:26	

LABORATORY CONTROL SAMPLE: 832900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	50	48.0	96	85-115	

MATRIX SPIKE SAMPLE: 832902

Parameter	Units	70138298004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.7	113	70-130	

MATRIX SPIKE SAMPLE: 832904

Parameter	Units	70139455001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.6	106	70-130	

SAMPLE DUPLICATE: 832901

Parameter	Units	70138298004 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 832903

Parameter	Units	70139455001 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 (WARWICK)

Pace Project No.: 70140402

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 (WARWICK)

Pace Project No.: 70140402

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70140402001	W25R-20	EPA 200.8	172052		

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