

August 14, 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  
Groveland Elementary School  
1100 N Easton Road  
Doylestown, PA 18902  
Bucks County, Pennsylvania**

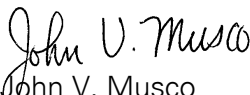
Dear Mr. Kleimenhagen:

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 two samples collected from drinking water fixtures 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 fixtures were replaced with new fixtures. The collected re-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 exceedance at this school of the Pennsylvania Action Level of 15 micrograms per liter (ug/L).

A field sketch 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

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August 14, 2020

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

RE: Project: CENTRAL BUCKS (GROVELAND)  
Pace Project No.: 70140395

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 (GROVELAND)

Pace Project No.: 70140395

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### **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 (GROVELAND)

Pace Project No.: 70140395

Sample: VMOR-20	Lab ID: 70140395001	Collected: 07/31/20 07:59	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	1.3	ug/L	1.0	1		08/13/20 20:10	7439-92-1	
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Sample: V118TR-20	Lab ID: 70140395002	Collected: 07/31/20 08:02	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	7.3	ug/L	1.0	1		08/13/20 20:12	7439-92-1	
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### QUALITY CONTROL DATA

Project: CENTRAL BUCKS (GROVELAND)  
Pace Project No.: 70140395

QC Batch: 171700      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: 70140395001, 70140395002

METHOD BLANK: 830272      Matrix: Water  
Associated Lab Samples: 70140395001, 70140395002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.0	1.0	08/13/20 19:24	

LABORATORY CONTROL SAMPLE: 830273

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

MATRIX SPIKE SAMPLE: 830275

Parameter	Units	70140221015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<1.0	4	4.7	115	70-130	

MATRIX SPIKE SAMPLE: 830277

Parameter	Units	70140393001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	1.5	4	5.9	110	70-130	

SAMPLE DUPLICATE: 830274

Parameter	Units	70140221015 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	<1.0	<1.0		

SAMPLE DUPLICATE: 830276

Parameter	Units	70140393001 Result	Dup Result	RPD	Qualifiers
Lead	ug/L	1.5	1.5	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 (GROVELAND)

Pace Project No.: 70140395

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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 (GROVELAND)  
Pace Project No.: 70140395

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70140395001	VMOR-20	EPA 200.8	171700		
70140395002	V118TR-20	EPA 200.8	171700		

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