

Technical Excellence Practical Experience Client Responsiveness

September 17, 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 Re-Sample Collection and Reporting Buckingham Elementary School 2414 Durham Road Buckingham, PA 18912

Dear Mr. Hanna:

This document has been prepared by Langan to provide the results of the drinking water resampling activities at the above referenced school. One water sample (B54R2) was collected from the school. The re-sampling activities were conducted on September 3, 2021 after the drinking water fixture was replaced. The collected sample was sent to a Pennsylvania certified environmental laboratory, PACE Analytical, and analyzed for total lead by USEPA Method 200.8, to meet Pennsylvania's action level requirements.

The re-sampling result of the one fixture sampled did not detect an exceedance of the Pennsylvania Action Level of 15 ug/L.

A figure of the re-sampling location and copy of the laboratory report is attached.

Sincerely, Langan Engineering & Environmental Services, Inc.

John V. Musco

John V. Musco Associate

Enclosure cc: B. Lambing - Langan

NJ Certificate of Authorization No. 24GA27996400 Wangan.com\data\DYL\data4\200130403\Project Data\Record Data\Reports\ReSampling - September 2021\Buckingham\Buckingham_Lead_Re-Sampling_Report_09-2021.docx

2700 Kelly Road, Suite 200 Warrington, PA 18976

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Pace Analytical Services, LLC 575 Broad Hollow Road Melville, NY 11747 (631)694-3040

September 10, 2021

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

RE: Project: CENTRAL BUCKS SCHOOL (BUCKINGH Pace Project No.: 70186439

Dear Bill Lambing:

Enclosed are the analytical results for sample(s) received by the laboratory on September 04, 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 - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dophia Sparkes

Sophia Sparkes sophia.sparkes@pacelabs.com (631)694-3040 Project Manager

Enclosures





Pace Analytical Services, LLC 575 Broad Hollow Road Melville, NY 11747 (631)694-3040

CERTIFICATIONS

Project: CENTRAL BUCKS SCHOOL (BUCKINGH

Pace Project No.: 70186439

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414 A2LA Certification #: 2926.01* 1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab Alabama Certification #: 40770 Alaska Contaminated Sites Certification #: 17-009* Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014* Arkansas DW Certification #: MN00064 Arkansas WW Certification #: 88-0680 California Certification #: 2929 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256 EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137 Florida Certification #: E87605* Georgia Certification #: 959 Hawaii Certification #: MN00064 Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification #: C-MN-01 Iowa Certification #: 368 Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062 Louisiana DEQ Certification #: AI-03086* Louisiana DW Certification #: MN00064 Maine Certification #: MN00064* Maryland Certification #: 322 Michigan Certification #: 9909 Minnesota Certification #: 027-053-137* Minnesota Dept of Ag Approval: via MN 027-053-137 Minnesota Petrofund Registration #: 1240* Mississippi Certification #: MN00064

Missouri Certification #: 10100 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081* New Jersey Certification #: MN002 New York Certification #: 11647* North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification (1700) #: CL101 Ohio VAP Certification (1800) #: CL110* Oklahoma Certification #: 9507* Oregon Primary Certification #: MN300001 Oregon Secondary Certification #: MN200001* Pennsylvania Certification #: 68-00563* Puerto Rico Certification #: MN00064 South Carolina Certification #:74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192* Utah Certification #: MN00064* Vermont Certification #: VT-027053137 Virginia Certification #: 460163* Washington Certification #: C486* West Virginia DEP Certification #: 382 West Virginia DW Certification #: 9952 C Wisconsin Certification #: 999407970 Wyoming UST Certification #: via A2LA 2926.01 USDA Permit #: P330-19-00208 *Please Note: Applicable air certifications are denoted with an asterisk (*).



SAMPLE ANALYTE COUNT

Project:CENTRAL BUCKS SCHOOL (BUCKINGHPace Project No.:70186439

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70186439001	 B54R2_090321	EPA 200.8	PW1	1	PASI-M

PASI-M = Pace Analytical Services - Minneapolis



ANALYTICAL RESULTS

Project: CENTRAL BUCKS SCHOOL (BUCKINGH

Pace Project No.: 70186439

Sample: B54R2_090321	Lab ID: 701	86439001	Collected: 09/03/2	1 06:07	Received: 09	/04/21 09:10	Matrix: Drinking	Water
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical Metl Pace Analytica							
Lead	13.4	ug/L	0.10	1		09/09/21 18:27	1 7439-92-1	



QUALITY CONTROL DATA

Project: CENT	RAL BUCKS SCHC	OL (BUCK	INGH								
Pace Project No.: 701864	439										
QC Batch: 7692	19		Analysi	is Method:	E	PA 200.8					
QC Batch Method: EPA	200.8		Analysi	is Descript	ion: IC	CPMS Metal	s, Drinking	Water			
			Labora	tory:	Р	ace Analytic	al Services	s - Minneap	olis		
Associated Lab Samples:	70186439001										
METHOD BLANK: 40987	14		N	latrix: Wat	er						
Associated Lab Samples:	70186439001										
			Blank	R	eporting						
Parameter		Units	Result	t	Limit	Analyz	ed	Qualifiers	_		
Lead		ug/L	<	:0.10	0.10	09/09/21	17:47				
LABORATORY CONTROL	SAMPLE: 40987	50									
			Spike	LCS		LCS	% Red	;			
Parameter		Units	Conc.	Resu	lt	% Rec	Limits	a Qi	ualifiers		
Lead		ug/L	100		106	106	85	5-115			
MATRIX SPIKE & MATRIX	SPIKE DUPLICATE	: 40987	52		4098753						
			MS	MSD							
_		86444001	Spike	Spike	MS	MSD	MS	MSD	% Rec		_
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Lead	ug/L	1.0	100	100	116	112	115	111	70-130	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.



QUALIFIERS

Project: CENTRAL BUCKS SCHOOL (BUCKINGH

Pace Project No.: 70186439

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CENTRAL BUCKS SCHOOL (BUCKINGH Pace Project No.: 70186439

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70186439001	B54R2_090321	EPA 200.8	769219		

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CHAIN-OF-CUSTODY / Analytical Request [

WO#:70186439

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mi

Section A Section B Section C 70186439 Required Client Information: Required Project Information: Invoice Information: Company: Langan Engineering Report To: Attention: Bill Lambing Bill Lambing Address: 2700 Kelly Road, Suite 200 Copy To: Company Name: Langan Engineering Warrington, PA 18976 Address: 2700 Kelly Road, Suile 200 **Regulatory Agency** blambing@langan.com Email: 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 (Buckingham) Pace Project Manager: sophia.sparkes@pacelabs.com, State / Location Requested Due Date: 72 hour (3 day) Turn Around Project #: 200130403 Pace Profile #: 7983 PA Requested Analysis Filtered (Y/N). left) C=COMP) N/X codes to | COLLECTED Preservatives MATRIX CODE SAMPLE TEMP AT COLLECTION Drinking Water DW Water WΤ (G=GRAB Waste Water ww valid Residual Chlorine (Y/N) Product Р Analyses Test SAMPLE ID SI Soit/Solid . aee) STAFT END (PB) Oil OL CONTAINERS One Character per box. WP Wipo MATRIX CODE SAMPLE-TYPE AR OT TS Air Unpreserved 200.7 Metals (A-Z, 0-9/, -) Other # Na2S203 Melhanol Sample Ids must be unique Tissue ITEM H2S04 HNO3 NaOH Other # OF ЮH DATE DATE TIME TIME 1 B54R2_090321 DW Ġ 9/3/2021 607 9/3/2021 607 x х 2 3 4 5 6 7 8 9 10 11 12 ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION DATE TIME ACCEPTED BY TAFFILIATION DATE TIME SAMPLE CONDITIONS 22 9/4/21 9:10 10:00 A/PACE 212 \mathcal{N} × Y 9/3/2021 0 SAMPLER NAME AND SIGNATURE Page Б U PRINT Name of SAMPLER: Received TEMP in Bill Lambing Custod Sealed Cooler (Y/N) (Y/N) Y/N) Bill Lamb õ SIGNATURE of SAMPLER: DATE Signed: 9/3/2021 오

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	Comple Co		Lines D			Documen	t Revised: 14Ap	2021
Pace Analytical"	Sample Co			eceipt (SCUI	R) - IVIN	De es A	Page 1 of 1	
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	E		111114-0	130 1101			Minine poins	
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Langan Engeneeri	y		_		PM: STS	;	Due Date:	09/21/21
Courier: SPee Dee SpeeDee	USPS Commerc	cial]Client		CLIENT :	LAN-PA	I	
Tracking Number: 7747 1740 4528			e Exceptio V-FRM-MI			-		
Custody Seal on Cooler/Box Present?	No	Sea	Is Intacti	Yes	No	Biological	lissue Frozen?	Yes 🗌 No 🕅 N
Packing Material: Bubble Wrap Bubble		None	AOth	er: <u>Pape</u> r	~	-	Temp Blank? [Yes 🕅 No
Thermometer: T1(0461) T2(1336) T3(049) T4(0254) T5(0489) T5(0489) T5(0489)	16028	5052	Type of Ice:			None	Dry 🗍 Melted	
Did Samples Originate in West Virginia? []Yes 🕅				emps Taken?				<u></u>
Temp should be above freezing to 6°C Cooler Temp						Tem	rage Corrected p (no temp blank):-21.2-0C-	See Exception
D, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check If Yes to either question, fill out			No ecklist (F		id Puerto Ricc and include	with SCUR/	Yes No COC paperwork.	
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (I.e. out of hold, incorrect preservative, out of temp, incorrect containers).