The Lotis Engineering Group, P.C.

6465 Transit Road - Suite 23 East Amherst, New York 14051-2232 716.276.8707

January 3, 2016

Jamie Phillips Lancaster Central School District 177 Central Avenue Lancaster, New York 14086

Re: Lead T

Lead Testing in School Drinking Water - Sampling Event 2

Court Street Elementary School

91 Court Street Lancaster, NY 14086

Dear Ms. Phillips:

On September 6, 2016, Governor Andrew M. Cuomo signed legislation (S.8158/A.10740) mandating that public schools in New York State test potable water for lead contamination. The New York State Department of Health (NYSDOH) also issued emergency regulations pursuant to the new legislation (NYCRR Title X, Subpart 67-4).

In accordance with the new law and regulations, Lancaster Central School District (District) contracted The Lotis Engineering Group, P.C. (Lotis), to complete water testing in all District buildings. This submission summarizes the analytical results of a resampling event completed on November 4, 2016 at Court Street Elementary School.

Per the emergency regulations issued by the NYSDOH, first-draw samples were collected from cold water outlets after water lay motionless in the pipes for a minimum of 8 hours, but not more than 18 hours. The school district was responsible for flushing outlets at least 8 hours prior to sample collection. Lotis was notified by the school district that flushing was completed over 8 hours prior to sampling. However, this could not be independently verified by Lotis.

Samples were collected by placing a sterile container under each outlet and turning on the water source, allowing Lotis to collect a first-draw cold water sample. Samples were collected in clean 250 mL containers containing the appropriate nitric acid preservative, as provided by the testing laboratory. Samples were then delivered to Microbac Laboratories (a certified Environmental Laboratory Approved Program) following standard chain of custody protocols.

A total of 7 outlets, identified by the District, were sampled inside the building on November 4, 2016.



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During the sampling at Court Street Elementary School on November 4, 2016, no samples exceeded the 15 parts per billion (ppb) action level set forth by the NYSDOH.

Included in this submission are the complete laboratory analytical reports and chain of custody.

The legislation requires that Lancaster Central School District provide these results to the NYSDOH within one business day of receipt. Further, notification to building staff, all persons in parental relation to students, the local health department and the State Education Department is required within 10 business days of receipt of these results. These results and any associated remedial plans must be posted on the District's website within six weeks of receipt and all records must be retained by the District for at least 10 years.

The NYSDOH recommends reviewing "3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance" published by the United States Environmental Protection Agency (USEPA) to assist schools in assessing an appropriate remediation plan. A copy of this publication can be reviewed through the following hyperlink 3Ts for Reducing Lead in Drinking Water in Schools.

Lotis is available at your convenience to discuss this issue further.

Sincerely.

Kelly Reidy

Environmental Scientist

David N. Robinson, P.E. President/CEO



Laboratory Analytical Results



December 1, 2016

The Lotis Engineering Group, P.C. 6465 Transit Road - Suite 23 East Amherst, NY 14051-2232

Work Order No.: 16K0764

Re: CSE

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 7 sample(s) on 11/9/2016 9:35:00AM for the analyses presented in the following report as Work Order 16K0764.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Karen Ziolkowski

Senior Project Manager



WORK ORDER SAMPLE SUMMARY

Date:

Thursday, December 1, 2016

Client: The Lotis Engineering Group, P.C.

Project: CSE Lab Order: 16K0764

Client Sample ID	Tag Number	Collection Date	Date Received
1-CSE-Kitchen-S2-Right		11/04/2016 07:35	11/9/2016 9:35:00AM
2-CSE-Kitchen-S2-Left		11/04/2016 07:37	11/9/2016 9:35:00AM
5-CSE-Kitchen-Dishwasher		11/04/2016 07:40	11/9/2016 9:35:00AM
8-CSE-Kitchen-Dishwasher-Tail		11/04/2016 07:42	11/9/2016 9:35:00AM
3-CSE-Kitchen-S3-Prep Sink		11/04/2016 07:38	11/9/2016 9:35:00AM
4-CSE-Kitchen-S4-Handwash		11/04/2016 07:38	11/9/2016 9:35:00AM
6-CSE-Kitchen-Sprayer		11/04/2016 07:40	11/9/2016 9:35:00AM
	2-CSE-Kitchen-S2-Left 5-CSE-Kitchen-Dishwasher 8-CSE-Kitchen-Dishwasher-Tail 3-CSE-Kitchen-S3-Prep Sink 4-CSE-Kitchen-S4-Handwash	1-CSE-Kitchen-S2-Right 2-CSE-Kitchen-S2-Left 5-CSE-Kitchen-Dishwasher 8-CSE-Kitchen-Dishwasher-Tail 3-CSE-Kitchen-S3-Prep Sink 4-CSE-Kitchen-S4-Handwash	1-CSE-Kitchen-S2-Right 11/04/2016 07:35 2-CSE-Kitchen-S2-Left 11/04/2016 07:37 5-CSE-Kitchen-Dishwasher 11/04/2016 07:40 8-CSE-Kitchen-Dishwasher-Tail 11/04/2016 07:42 3-CSE-Kitchen-S3-Prep Sink 11/04/2016 07:38 4-CSE-Kitchen-S4-Handwash 11/04/2016 07:38



Client	·-		gineeri <mark>ng Gro</mark>	oup, P.C.				Work ((10)(0)	(0764
Cilent	Project:	CSE						Receiv	red:	11/09/2016	9:35
Analy	***************************************	Certs	Result	Units	Qual	Analyzed		Tech	Method		***************************************
01	1-CSE-Kitchen-S	S2-Right						Colle	ected: 11/0	4/2016 07:35	
Lead		gdmnoi	4.29	ug/L		11/30/2016	12:16	SA	EPA 200).8 Rev 5.4	
02 2	2-CSE-Kitchen-S	S2-Left			······································			Colle	ected: 11/0	4/2016 07:37	
Lead		gdmnoi	3.15	ug/L		11/30/2016	12:16	SA	EPA 200	0.8 Rev 5.4	
03 8	5-CSE-Kitchen-L	Dishwasher			•			Colle	ected: 11/0	4/2016 07:40	N0000000000000000000000000000000000000
Lead		gdmnoi	1.09	ug/L		11/30/2016	12:17	SA	EPA 200	0.8 Rev 5.4	
04 8	8-CSE-Kitchen-L	Dishwasher-Tail						Colle	cted: 11/0	4/2016 07:42	***************************************
Lead		gdmnoi	3.14	ug/L		11/30/2016	12:18	SA	EPA 200	0.8 Rev 5.4	
05 3	3-CSE-Kitchen-S	S3-Prep Sink						Colle	cted: 11/0	4/2016 07:38	>00000000000000000000000000000000000000
Lead		gdmnoi	3.22	ug/L		11/30/2016	12:18	SA	EPA 200	.8 Rev 5.4	
06 4	4-CSE-Kitchen-S	64-Handwash				······································	***************************************	Colle	cted: 11/04	4/2016 07:38	***************************************
Lead		gdmnoi	2.57	ug/L		11/30/2016	13:34	SA	EPA 200	.8 Rev 5.4	
07 6	6-CSE-Kitchen-S	Sprayer	***************************************				***************************************	Colle	cted: 11/04	1/2016 07:40	***************************************

11/30/2016 13:34

ug/L

Lead

gdmnoi 2.50

EPA 200.8 Rev 5.4



FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL

b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL

b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- g Indiana SDH chemical analysis of drinking water (#C-45-03)
- Kansas Dept Health & Env. NELAP (#E-10397)
- m New York State Department of Health Wadsworth (#12006)
- Pennsylvania Department of Environmental Protect (#68-04863)
- Virginia Department of General Services Division of Consolidated Laboratory Services (#7990)



COOLER INSPE	CTION				Date:	Thurs	day, December	1 2016	
Client Name: The Lo	otis Engineering Group, P.C.		Date/	Time Rec			2016 09:35	1, 2010	
Work Order Number:	16K0764		Recei	ived by:	Nicole	Rainwa	ater		
Checklist completed by	y: 11/10/2016 2:56:00PM	Nicole Rainwater	Revie	ewed by:	11/15	/2016	KAZ		
		Carrier Name: UPS							
	Cooler ID: Default Cooler		Cor	ntainer/Te	mp Blank	Tempe	rature:	21.0° C	
Custody seals intact Custody seals intact COC present? COC included sufficie COC included a sam COC agrees with sar COC identified the ap COC included date o COC included time o COC identified the ap Samples in proper co	mple labels? ppropriate matrix? f collection? f collection? ppropriate number of containers? pntainer/bottle? ttact? ume for indicated test?		Yes	4 4	No N	\ \ \ \ \	Not Present Not Present Not Present		
	eserved, are the preservatives id	entified?	Yes		No				
	If No, adjusted by	y?							_
Samples received on Samples properly pre	linquished and received? ice?	?	Yes Yes Yes Yes		No No No No	V No	o VOA vials su	bmitted	abla
Cooler Comments:									
ANY "NO" EVALUAT	ΓΙΟΝ (excluding After-Hour Recei	pt) REQUIRES CLIENT	NOTII	FICATIO	N.				
Sample ID	Client Sample ID	Comments							
16K0764-01	1-CSE-Kitchen-S2-Right								
	2-CSE-Kitchen-S2-Left								
16K0764-03	5-CSE-Kitchen-Dishwasher	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							
16K0764-04	8-CSE-Kitchen-Dishwasher-Tail								
16K0764-05	3-CSE-Kitchen-S3-Prep Sink								
16K0764-06	4-CSE-Kitchen-S4-Handwash								
16K0764-07	6-CSE-Kitchen-Sprayer								

Microbac Laboratories, Inc.

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

16K0764

Matrix SampleName SampleAilas Sampled SampledBy

2 Aqueous 2
3 Aqueous 2
4 Aqueous 2
5 Aqueous 2
6 Aqueous 3
7 Aqueous 3
8 Aqueous 3
8 Aqueous 3

X Matthew Israen/ 11/7/16

released to UPS

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NI 21.5

PS

11/9/16

16K0764 Karen Ziolkowski The Lotis Engineering Group, P.C. - East Amherst N CSE 11/09/2016