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 Testing in School Drinking Water - Sampling Event 2, 3 and 4

Lancaster High School

1 Forton Drive

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, December 8, 2016 and December 12, 2016 at Lancaster High 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.

Eight outlets, identified by the District, were sampled inside the building on November 4, 2016. An additional 3 outlets, identified by the District, were sampled inside the building on December 8, 2016. Lastly, one outlet, identified by the District, was sampled inside the building on December 12, 2016. A total of 12 outlets were sampled during these three sampling events.



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At Lancaster High School, 2 samples exceeded the 15 parts per billion (ppb) action level set forth by the NYSDOH. A summary of these samples is included in the following table:

Table 1 - Samples Exceeding 15 ppb

Date Sampled	Sample ID	Location Details	Results (ppb)
11/4/2016	13-LHS-GLR-S1-Broken Sink	Girls Locker Room Sink, not in use	57.1
12/8/2016	2-LHS-111 Prep Room S2	Room 111 Prep Room, right sink	39

Included in this submission are the complete laboratory analytical reports, chain of custody logs and photos of sample locations that exceeded the action levels.

In accordance with the new legislation, use of the aforementioned outlets is prohibited until a lead remediation plan is implemented and new testing demonstrates that the resulting lead levels are below 15 ppb. Alternative water supplies may be necessary in impacted areas. 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,

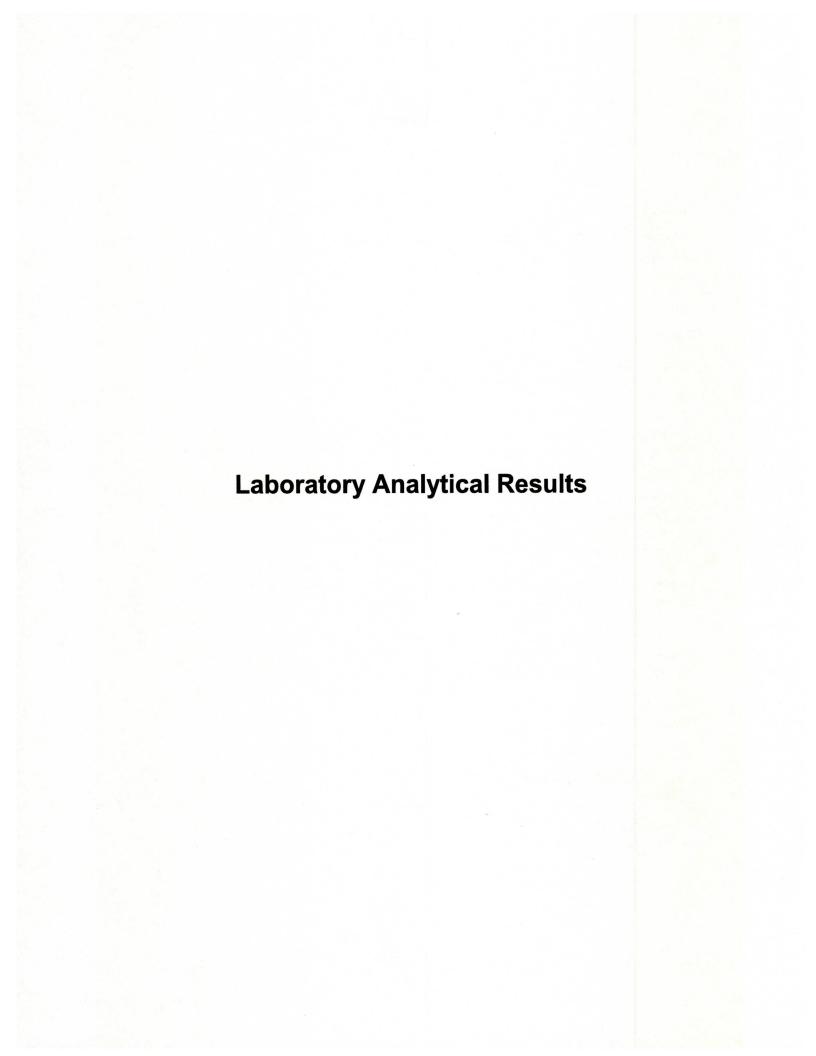
Kelly Reidy

Environmental Scientist

David N. Robinson, P.E.

President/CEO







Work Order No.: 16K0775

December 13, 2016

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

Re: LHS

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 8 sample(s) on 11/9/2016 9:35:00AM for the analyses presented in the following report as Work Order 16K0775.

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:

Tuesday, December 13, 2016

Client:

The Lotis Engineering Group, P.C.

Project: LHS Lab Order: 16K0775

					The second secon
Lab Sample ID	Client Sample ID Tag	g Number	Collection Date	Date Rece	
16K0775-01	2-LHS-Kitchen-Dishwasher		11/04/2016 05:45	11/9/2016	9:35:00AM
16K0775-02	9-LHS-Kitchen-Kitchen-SSF-1-L(SS	F=Steam Filler 1	11/04/2016 05:47	11/9/2016	9:35:00AM
16K0775-03	10-LHS-Kitchen-SSFH-2-Right SS	FH=Steam Filler He	o:11/04/2016 05:48	11/9/2016	9:35:00AM
16K0775-04	11-LHS-Kitchen-Steamer		11/04/2016 05:50	11/9/2016	9:35:00AM
16K0775-05	12-LHS-Kitchen-Tilt Skillet		11/04/2016 05:50	11/9/2016	9:35:00AM
16K0775-06	13-LHS-GLR-S1-Broken Sink		11/04/2016 05:51	11/9/2016	9:35:00AM
16K0775-07	14-LHS-BPLR-WF1 BP	LR=Boy's Pool Loc	k11/04/2016 05:52	11/9/2016	9:35:00AM
16K0775-08	5-LHS-Kitchen-Dish-Sprayer		11/04/2016 05:45	11/9/2016	9:35:00AM



Analytical Results

Date:

Tuesday, December 13, 2016

Client: Client Project:		The Lotis Engineering Group, P.C. ect: LHS			Work C Receiv			
Anal	yses	Certs	Result	Units	Qual	Analyzed	Tech	Method
01	2-LHS-Kitchen	n-Dishwasher					Colle	cted: 11/04/2016 05:45
Lead		gdmnoi	1.53	ug/L		11/22/2016 14:4	RPL	EPA 200.8 Rev 5.4
02	9-LHS-Kitchen	n-Kitchen-SSF-1-L	eft - SSF=Ste	eam Filler 1	••••••		Colle	cted: 11/04/2016 05:47
Lead		gdmnoi	5.69	ug/L		11/22/201 <mark>6 14:4</mark> 2	RPL	EPA 200.8 Rev 5.4
03	10-LHS-Kitche	en-SSFH-2-Right	· SSFH=Stear	n Filler Hose 1			Colle	cted: 11/04/2016 05:48
Lead		gdmnoi	3.02	ug/L		11/22/2016 14:42	RPL	EPA 200.8 Rev 5.4
04	11-LHS-Kitche	en-Steamer			••••••		Colle	cted: 11/04/2016 05:50
Lead		gdmnoi	1.72	ug/L		11/22/2016 14:43	RPL	EPA 200.8 Rev 5.4
05	12-LHS-Kitche	en-Tilt Skillet					Colle	cted: 11/04/2016 05:50
Lead		gdmnoi	8.99	ug/L		11/22/2016 14:44	RPL	EPA 200.8 Rev 5.4
06	13-LHS-GLR-S	S1-Broken Sink			***************************************		Colle	cted: 11/04/2016 05:51
Lead		gdmnoi	57.1	ug/L		11/22/2016 14:46	RPL	EPA 200.8 Rev 5.4
07	14-LHS-BPLR	-WF1 - BPLR=Bo	y's Pool Lock	er Room			Colle	cted: 11/04/2016 05:52
Lead		gdmnoi	7.00	ug/L		11/22/2016 14:48	RPL	EPA 200.8 Rev 5.4
08	5-LHS-Kitchen	n-Dish-Sprayer					Colle	cted: 11/04/2016 05:45
Lead		gdmnoi	1.19	ug/L		12/12/2016 15:00	RPL	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)
- ⁿ Pennsylvania Department of Environmental Protect (#68-04863)
- Virginia Department of General Services Division of Consolidated Laboratory Services (#7990)

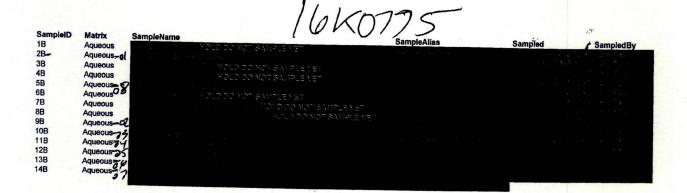
Microbac Laboratories, Inc.



COOLER INSPE	CTION				Date:	Tuesda	ay, December	13, 2016	
Client Name: The Lotis Engineering Group, P.C.			Date/Time Received: 11/09/2016 09:35						
Work Order Number:	16K0775		Recei	ved by:	Nicole	Rainwa	ater		
Checklist completed b	y: 11/10/2016 3:30:00PM Ni	cole Rainwater	Revie	wed by:	11/15	/2016	KAZ	Z	
		Carrier Name: UPS							
	Cooler ID. Defects Cooler			//	D1 1			21.00.0	
	Cooler ID: Default Cooler		Con	tainer/Te	mp Blank	Tempe	rature:	21.0° C	
Custody seals intact Custody seals intact COC present? COC included suffici COC included a sam COC agrees with sa COC identified the a COC included date of COC included time of COC identified the a Samples in proper of Sample containers in Sufficient sample voi All samples received	mple labels? ppropriate matrix? of collection? of collection? ppropriate number of containers? ontainer/bottle?		Yes		No N	\rightarrow \right	Not Present Not Present Not Present		
	ii No, adjusted by								
Samples received or Samples properly pro	elinquished and received?		Yes Yes Yes Yes		No No No No	No.	o VOA vials st	ıbmitted	✓
Cooler Comments:									
ANY "NO" EVALUA	TION (excluding After-Hour Receip	t) REQUIRES CLIENT	ГИОТП	FICATIO	N.				
Sample ID	Client Sample ID	Comments	MOTE	ricario	14.				
16K0775-01	2-LHS-Kitchen-Dishwasher	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
16K0775-02	9-LHS-Kitchen-Kitchen-SSF-1-Left								
16K0775-03	10-LHS-Kitchen-SSFH-2-Right								
16K0775-04	11-LHS-Kitchen-Steamer								
16K0775-05	12-LHS-Kitchen-Tilt Skillet								
16K0775-06	13-LHS-GLR-S1-Broken Sink								
16K0775-07	14-LHS-BPLR-WF1								
16K0775-08	5-I HS-Kitchen-Dish-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



released to UPS

luc lab: Nicol Rima

NJ 215°C

URS

11/9/16 @0925

16K0775 Karen Ziolkowski The Lotis Engineering Group, P.C. - East Amherst N LHS 11/09/2016





Work Order No.: 16L0699

December 16, 2016

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

Re: LHS

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 12/13/2016 1:35:00PM for the analyses presented in the following report as Work Order 16L0699.

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.

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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:

Friday, December 16, 2016

Client:

The Lotis Engineering Group, P.C.

Project: LHS Lab Order: 16L0699

Lab Sample ID	Client Sample ID	Tag Number Collection Date		Date Received			
16L0699-01	1-LHS-NO-Ice Machine	Ice MAchine	12/08/2016 07:07	12/13/2 <mark>016 1:35:00PM</mark>			
16L0699-02	2-LHS-111 Prep Room S1	left Sink in prep room	12/08/2016 07:16	12/13/2 <mark>016 1:35:00PM</mark>			
16L0699-03	2-LHS-111 Prep Room S2	Right Sink in prep roo	r12/08/2016 07:30	12/13/2016 1:35:00PM			



Analytical Results

gdmnoi 39.0

Lead

Date:

12/15/2016 17:56

RPL

Friday, December 16, 2016

EPA 200.8 Rev 5.4

16L0699 12/13/2016 13:35
d
08/2016 07:07
00.8 Rev 5.4
08/2016 07:16
00.8 Rev 5.4
000

ug/L

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

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g = Gram

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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)

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I = Internal Standard

M = Summation Analyte

S = Surrogate

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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

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- 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)

Microbac Laboratories, Inc.



COOLER INSPEC				Date:	Friday, Decen	nber 16, 2016	
Client Name: The Lotis Engineering Group, P.C.			Date/Time Rec	eived:	12/13/2016 13	3:35	
Work Order Number:	16L0699		Received by:	Samai	ntha Paulus		
Checklist completed by:	12/13/2016 10:08:00AM	Nicole Rainwater	Reviewed by:	12/13	3/2016	KAZ	
		Carrier Name: UPS					
	Cooler ID: Default Cooler		Container/Te	mp Blanl	k Temperature:	19.2° C	
After-Hour Arrival? Shipping container/cooler in good condition? Custody seals intact on shipping container/cooler? Custody seals intact on sample containers? COC present? COC included sufficient client identification? COC included sufficient sample collector information? COC included a sample description? COC agrees with sample labels? COC identified the appropriate matrix? COC included date of collection? COC included time of collection? COC identified the appropriate number of containers? Samples in proper container/bottle? Sample containers intact? Sufficient sample volume for indicated test? All samples received within holding time? If the samples are preserved, are the preservatives identified?			Yes	No N	Not Pr Not Pr Not Pr	resent	
	If No, adjusted b	py?					
Samples received on i Samples properly pres Voa vials for aqueous Cooler Comments: ANY "NO" EVALUATI Sample ID	nquished and received? ice? served? samples have zero headspace ION (excluding After-Hour Received)		Yes Yes Yes Yes Yes Yes Your Yes	No No No No No	✓ No VOA	vials submitted	V
	-LHS-NO-Ice Machine 2-LHS-111 Prep Room S1						
	LI HS_111 Pren Poom S2						

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

1660699

SamplelD

Matrix

1 Aqueous 2 Aqueous 3 Aqueous SampleName 1-LHS-NO-Ice Machine

Ice Machine

Sampled

SampledBy

12/8/2016 07:07 Matt

X Mothers Green

Mathew Green

12/8/2016

Relinquished to UPS

Rece Lab: Junth Jamber 122-16 @1335

192

NI -00

TA2°2

16L0699 Karen Ziolkowski The Lotis Engineering Group, P.C. - East Amherst N LHS 12/13/2016



Work Order No.: 16L0984

December 21, 2016

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

Re: LHS-215-S1

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 1 sample(s) on 12/15/2016 2:30:00PM for the analyses presented in the following report as Work Order 16L0984.

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.

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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.

Ron Misiunas

Director of Laboratory Services



WORK ORDER SAMPLE SUMMARY

Date: Wednesday, December 21, 2016

Client: Th

The Lotis Engineering Group, P.C.

Project: LHS-215-Lab Order: 16L0984

LHS-215-S1

Lab Sample ID 16L0984-01 Client Sample ID 1-LHS-215-S1 **Tag Number**

Collection Date 12/12/2016 06:50

Date Received

12/15/2016 2:30:00PM



Analytical Results

Date: Wednesday, December 21, 2016 Client: The Lotis Engineering Group, P.C. Work Order: 16L0984 Client Project: LHS-215-S1 Received: 12/15/2016 14:30 **Analyses** Certs Result Units Qual **Analyzed** Tech Method 1-LHS-215-S1 Collected: 12/12/2016 06:50 Lead gdmnoi 9.57 ug/L 12/21/2016 13:38 **RPL** EPA 200.8 Rev 5.4



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R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

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* = Result exceeds project specific limits

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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

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- 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)
- n Pennsylvania Department of Environmental Protect (#68-04863)
- Virginia Department of General Services Division of Consolidated Laboratory Services (#7990)



COOLER INSPEC					Date:	Wedr	nesday, Decemb	er 21, 201	6
Client Name: The Lotis Engineering Group, P.C.			Date/	Time Rec	eived:	12/15	5/2016 14:30		
Work Order Number:	16L0984		Recei	ived by:	Nicole	Rainw	/ater		
Checklist completed by:	12/16/2016 8:50:00AM N	icole Rainwater	Revie	ewed by:	12/16	/2016	KAZ	Z	
		Carrier Name: Priority	US Ma	il					
C	Cooler ID: Default Cooler		Cor	ntainer/Ter	mp Blanl	c Temp	erature:	18.2° C	
After-Hour Arrival? Shipping container/coo	•		Yes Yes	<u></u>	No No	✓	Not Present		
Custody seals intact or Custody seals intact or	n shipping container/cooler? n sample containers?		Yes Yes	H	No No	Н	Not Present Not Present	V	
COC present? COC included sufficien	nt client identification?		Yes Yes	V	No No	H			
	nt sample collector information?		Yes	V	No	H			
COC included a sample			Yes	✓	No				
COC agrees with samp			Yes	<u> </u>	No	Ш			
COC identified the app			Yes	V	No	Н			
COC included date of o			Yes	V	No	Н			
	propriate number of containers?		Yes		No	H			
Samples in proper con			Yes Yes		No	\bowtie			
Sample containers inta			Yes	Y	No No	H			
Sufficient sample volum			Yes	Y	No	Н			
All samples received w			Yes		No	H			
the state of the s	served, are the preservatives ide	entified?	Yes	7	No	H			
	, p		100	V	110	ш			
	If No, adjusted by	?							
COC included the requi	costed analysis 2								
COC signed when relin			Yes	Y	No	H			
COC signed when relinquished and received? Samples received on ice?			Yes Yes	<u>~</u>	No No	H			
Samples properly preserved?			Yes		No	M			
Voa vials for aqueous samples have zero headspace?			Yes	4	No	H	lo VOA vials su	hmitted	
Cooler Comments:					110	LJ ¹	O'T TIME SU	omnod	<u>~</u>
ANY "NO" EVALUATI	ON (excluding After-Hour Receip	ot) REQUIRES CLIENT	NOTI	FICATIO	N.				
	lient Sample ID	Comments							
16L0984-01 1-	-LHS-215-S1								

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1620984

Sampleto Ma

Aqueous

SampleName

Sampled

SampledBy

-01

NI 8.20

Reco Lab: Nich Rimate 1215-16 @1430

16L0984 Karen Zicikowski The Lotis Engineering Group, P.C. - East Amherst N LHS-215-S1 12/15/2018



