The Lotis Engineering Group, P.C.

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

January 23, 2016

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

Re:

Lead Testing in School Drinking Water John A. Sciole Elementary School 86 Alys Drive East Depew, New York 14043

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).

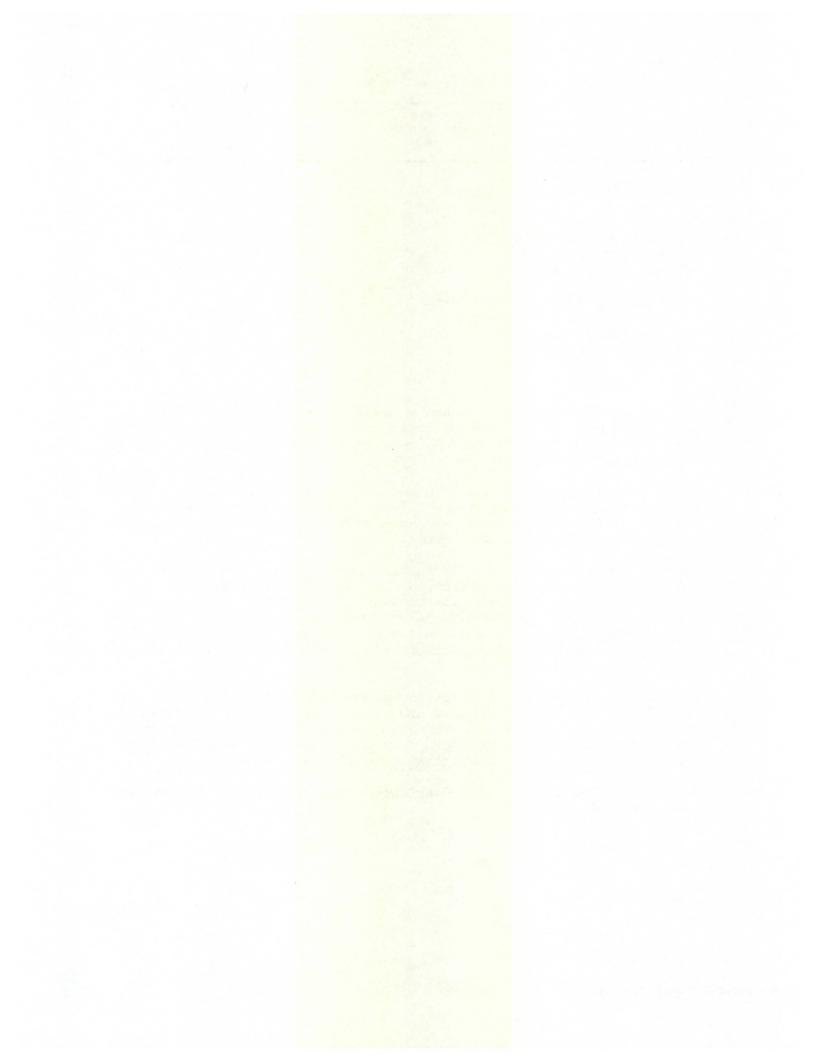
In accordance with the new law and regulations, Lancaster Central School District (District) contracted The Lotis Engineering Group, P.C. (Lotis), to complete water testing in all District buildings. This submission summarizes the analytical results of sampling completed on December 16, 2016 at John A. Sciole Elementary School.

Maintenance closets and showers are not required to be tested under the new state mandates and were not included under this scope of work. 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 8 outlets, identified by the District, were sampled inside the building during this resampling event.





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At John A. Sciole Elementary School, 6 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 2 - Samples Exceeding 15 ppb

Sample ID	Location Details	Results (ppb)	
2-JAS-Kitchen-S1	Kitchen – Sink faucet with double bowl	62.9	
3-JAS-Kitchen-S2	Kitchen – Hand washing sink faucet	20.9	
4-JAS-Kitchen-Pot Filler	Kitchen – Pot Filler	20.4	
5-JAS-Kitchen-S3-Triple Bowl	Kitchen - Left sink faucet with triple bowl	25.5	
6-JAS-Kitchen-S4-Triple Bowl	Kitchen - Right sink faucet with triple bowl	15.2	
7-JAS-2-S1	Room 2 – Sink faucet	24.2	

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 <u>3Ts for Reducing Lead in Drinking Water in Schools</u>.

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

Sincerely,

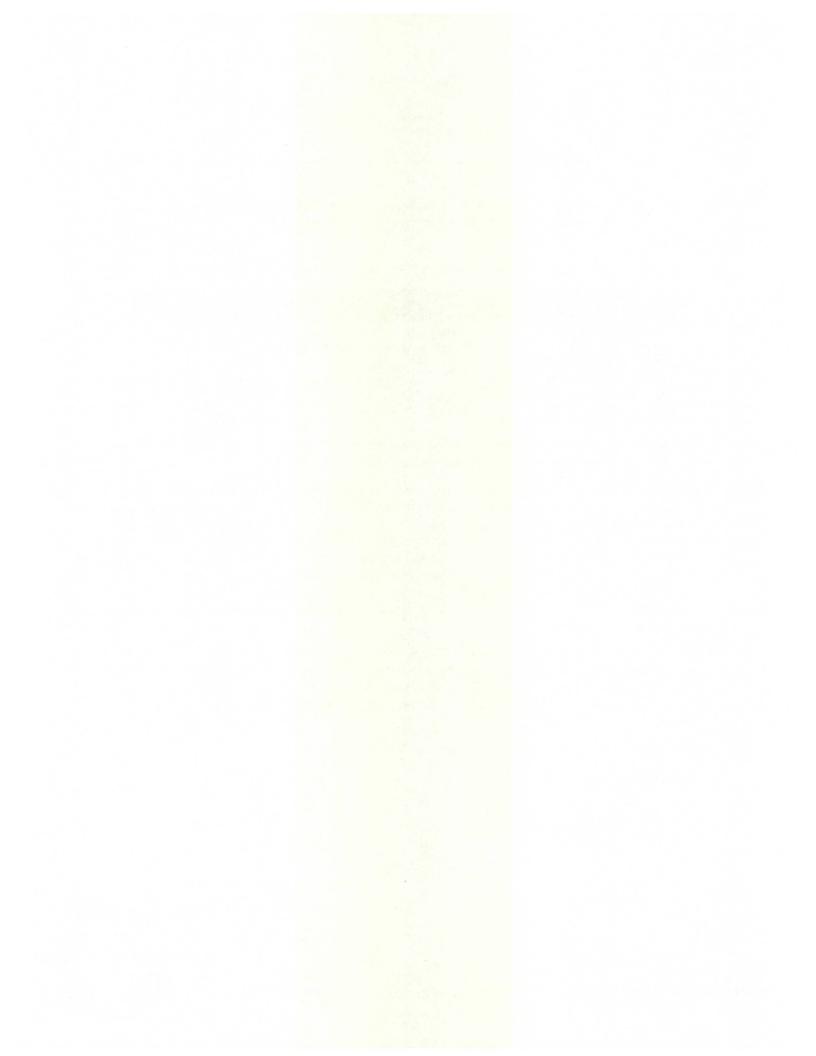
Kelly Reidy

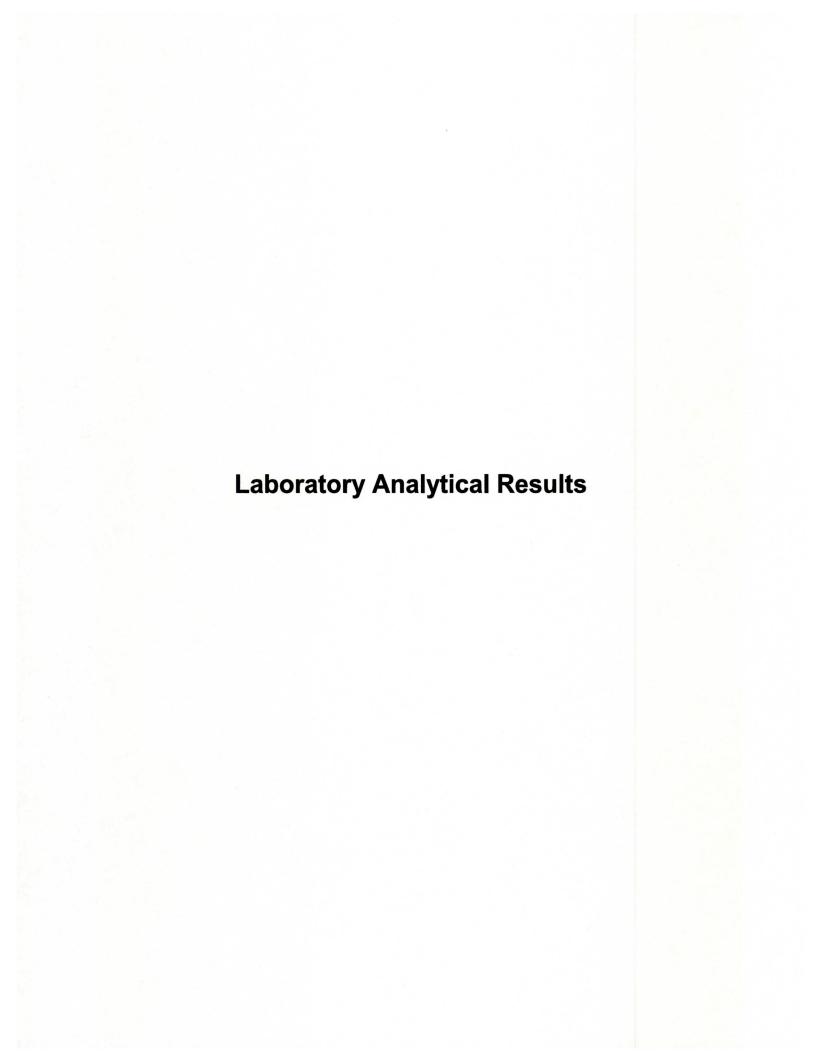
Environmental Scientist

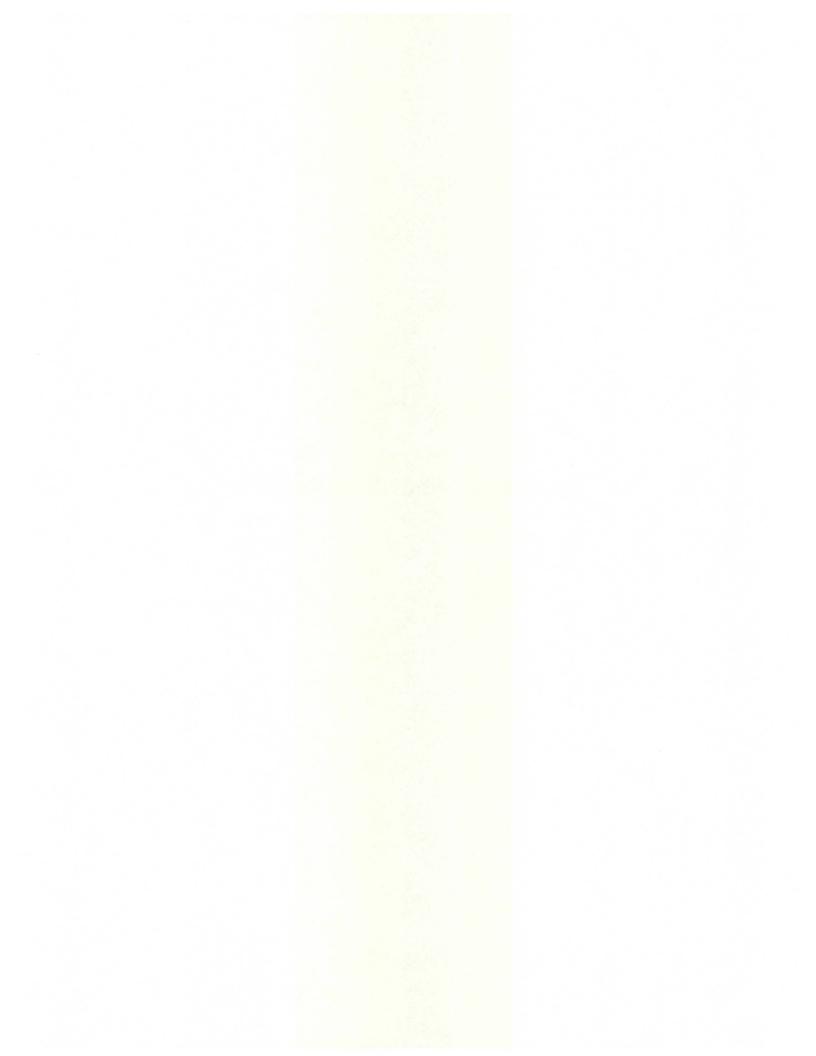
David N. Robinson, P.E.

President/CEO

www.thelotisgroup.com









December 27, 2016

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

Work Order No.: 16L1155

Re: JAS

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 8 sample(s) on 12/19/2016 10:55:00AM for the analyses presented in the following report as Work Order 16L1155.

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.

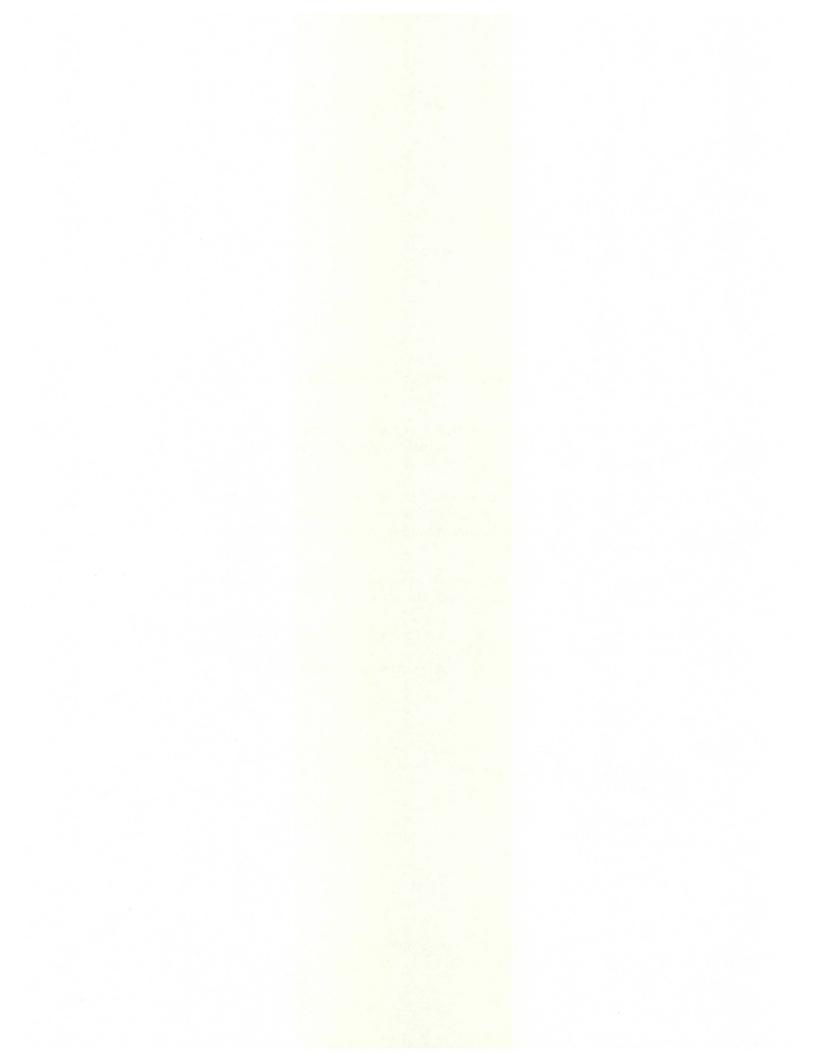
This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

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:

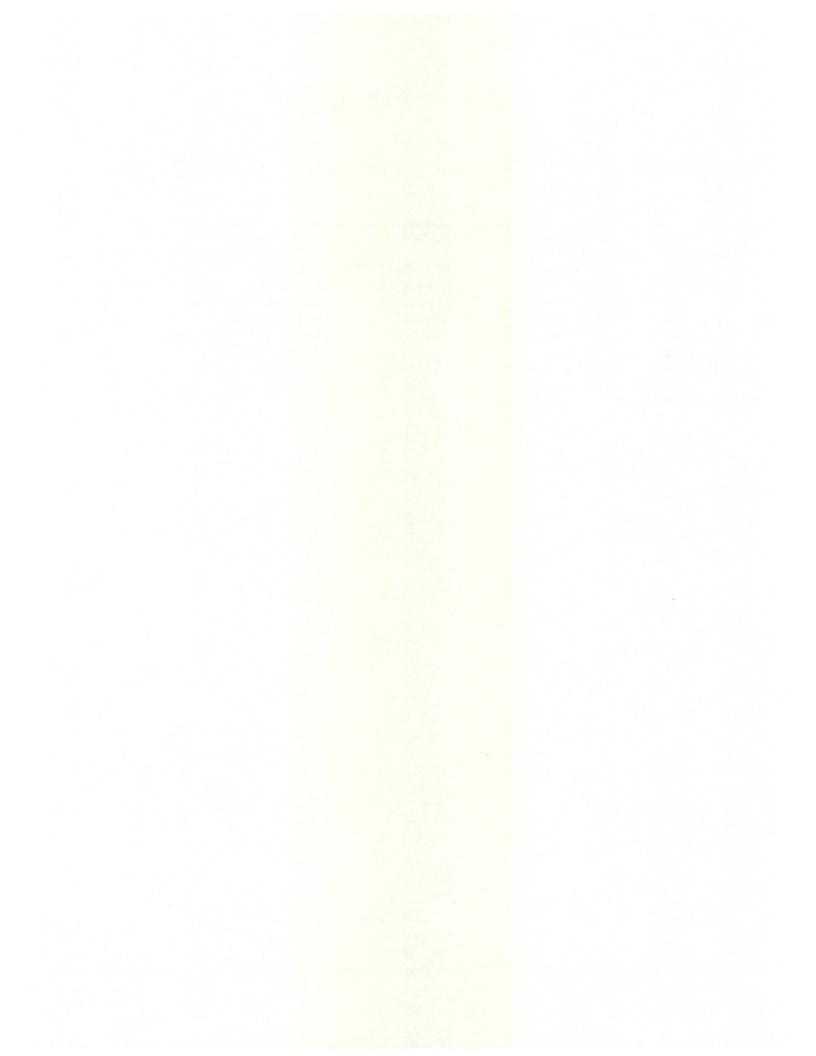
Tuesday, December 27, 2016

Client:

The Lotis Engineering Group, P.C.

Project: JAS Lab Order: 16L1155

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received		
16L1155-01	1-JAS-OB-S1		12/16/2016 06:30	12/19/2016 10:55:00AM		
16L1155-02	2-JAS-Kitchen-S1	Double Bowl by Microv	N11/04/2016 06:31	12/19/2 <mark>016 10:55:00AM</mark>		
16L1155-03	3-JAS-Kitchen-S2	Handwashing	11/07/2016 06:33	12/19/2 <mark>016 10:55:00AM</mark>		
16L1155-04	4-JAS-Kitchen-Pot Filler	By Steamer	11/04/2016 06:35	12/19/2 <mark>016 10:55:00AM</mark>		
16L1155-05	5-JAS-Kitchen-S3-Triple Bowl	Left Faucet	11/04/2016 06:40	12/19/2 <mark>016 10:55:00AM</mark>		
16L1155-06	6-JAS-Kitchen-S4-Triple Bowl	Right Faucet	11/04/2016 06:41	12/19/2 <mark>016 10:55:00AM</mark>		
16L1155-07	7-JAS-2-S1		11/04/2016 06:45	12/19/2 <mark>016 10:55:00AM</mark>		
16L1155-08	8-JAS-29-Gym Office-S1		11/04/2016 06:50	12/19/2 <mark>016 10:55:00AM</mark>		





Client: Client Project:	The Lotis En	gineering Gro	up, P.C.				Work C	
Analyses	Certs	Result	Units	Qual	Analyzed		Tech	Method
01 1-JAS-OB-S1							Colle	cted: 12/16/2016 06:30
Lead	gdmnoi	3.41	ug/L		12/22/2016 1	2:44	SJE	EPA 200.8 Rev 5.4
02 2-JAS-Kitchen	a-S1 - Double Bow	vl by Microwa	/e				Colle	cted: 11/04/2016 06:31
Lead	gdmnoi	62.9	ug/L		12/21/2016 1	5:49	RPL	EPA 200.8 Rev 5.4
03 3-JAS-Kitchen	n-S2 - Handwashii	ng					Colle	cted: 11/07/2016 06:33
Lead	gdmnoi	20.9	ug/L		12/21/2016 1	5:50	RPL	EPA 200.8 Rev 5.4
04 4-JAS-Kitcher	n-Pot Filler - By St	eamer					Colle	cted: 11/04/2016 06:35
Lead	gdmnoi	20.4	ug/L		12/21/2016 1	5:51	RPL	EPA 200.8 Rev 5.4
05 5-JAS-Kitcher	n-S3-Triple Bowl -	Left Faucet				***************************************	Colle	ected: 11/04/2016 06:40
Lead	gdmnoi	25.5	ug/L		12/21/2016 1	5:52	RPL	EPA 200.8 Rev 5.4
06 6-JAS-Kitcher	n-S4-Triple Bowl -	Right Faucet				•••••	Colle	ected: 11/04/2016 06:41
Lead	gdmnoi	15.2	ug/L		12/21/2016 1	5:53	RPL	EPA 200.8 Rev 5.4
07 7-JAS-2-S1							Colle	ected: 11/04/2016 06:45
Lead	gdmnoi	24.2	ug/L		12/21/2016 1	5:55	RPL	EPA 200.8 Rev 5.4

ug/L

12/21/2016 15:56

RPL

08

Lead

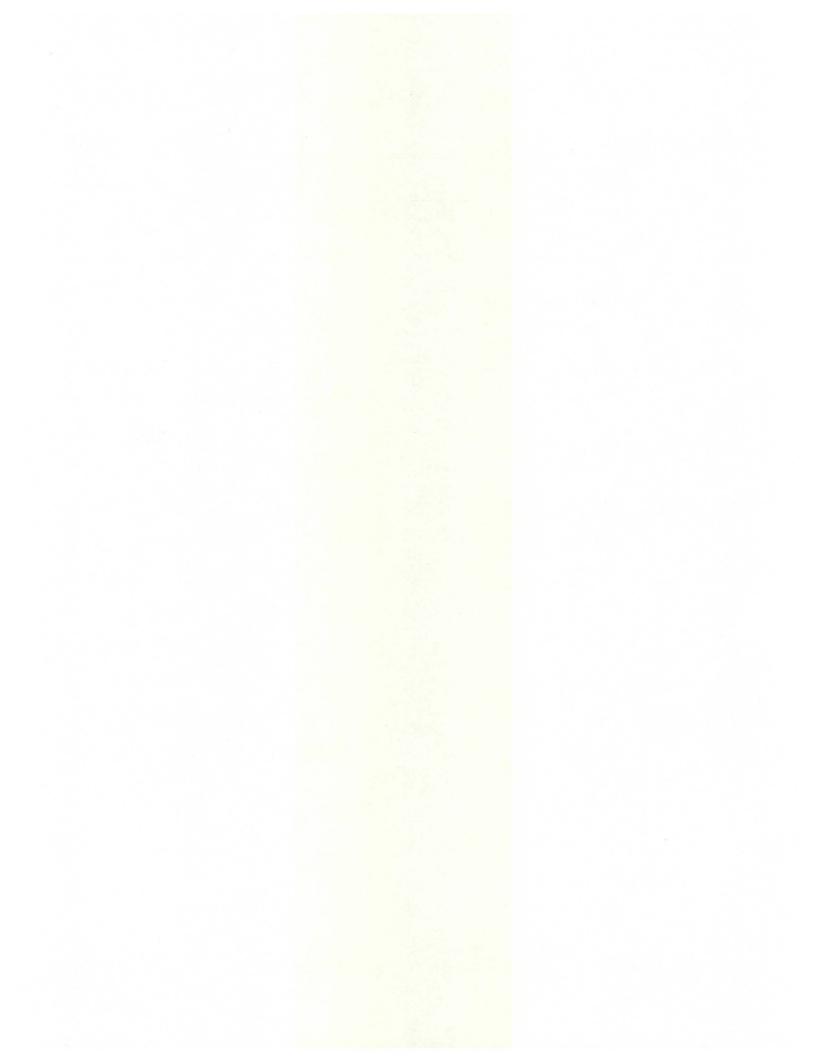
8-JAS-29-Gym Office-S1

10.6

gdmnoi

Collected: 11/04/2016 06:50

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

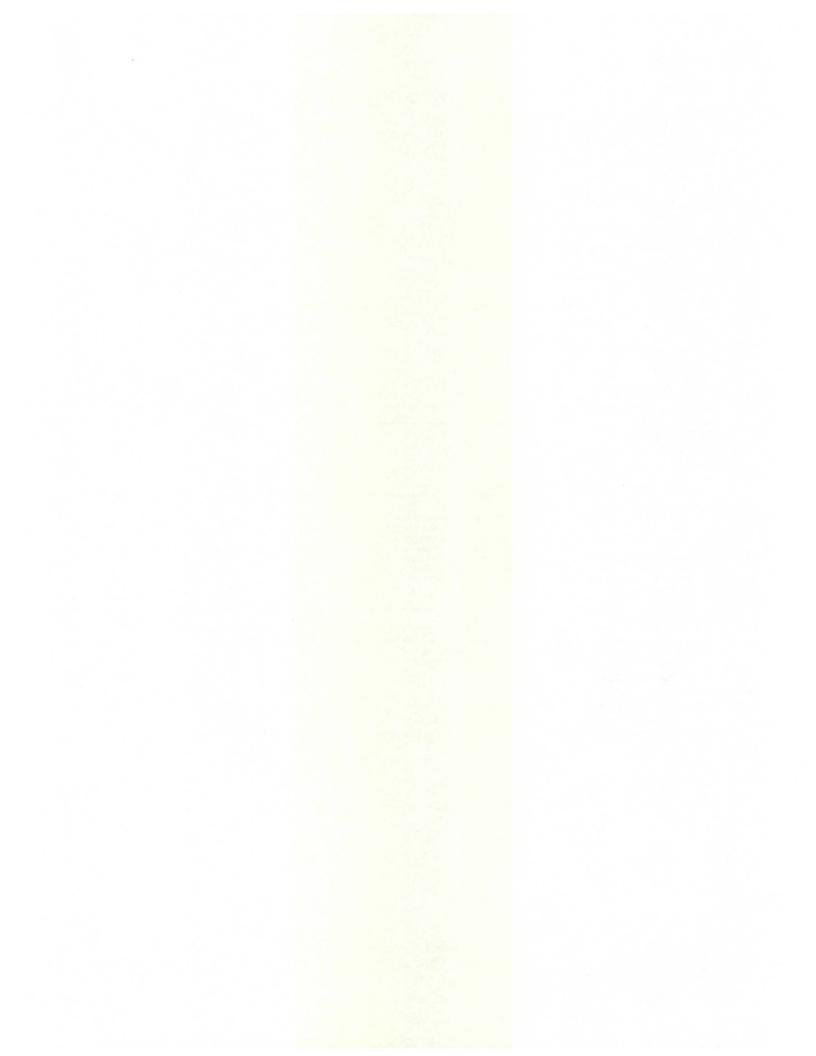
SD = Serial Dilution

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

Microbac Laboratories, Inc.

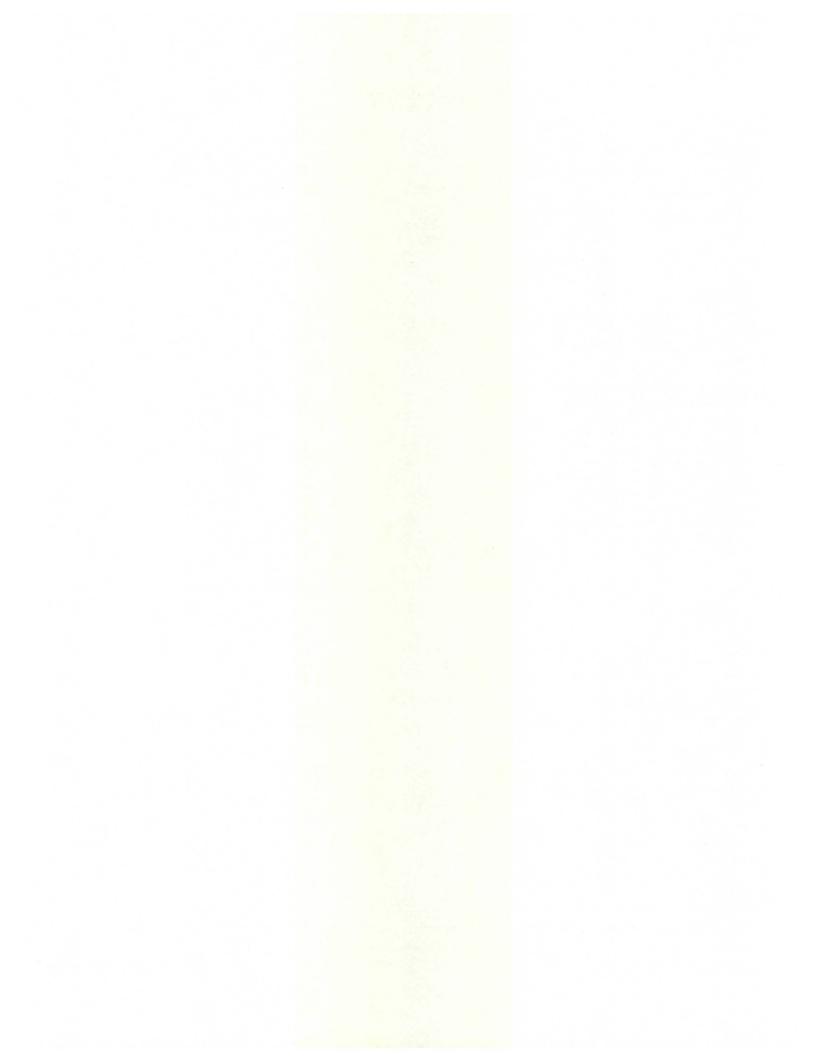


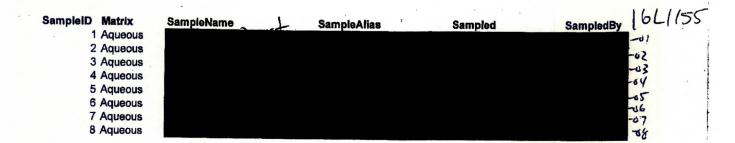


COOLER INSPEC			_		Date:		y, December 2	7, 2016	
Client Name: The Lotis Engineering Group, P.C.			Date/Time Received: 12/19/2016 10:55						
Work Order Number:	16L1155		Received by: Nicole Rainwater						
Checklist completed by	r: 12/20/2016 2:42:00PM Da	ve Bryant	Review	wed by:	12/27/	2016	KAZ		
		Carrier Name: UPS							
		010	•	. "	D1 1			0.00.0	
	Cooler ID: Default Cooler		Cont	ainer/Tei	mp Blank	Tempera	ature:	-0.8° 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 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?			Yes		No N		Not Present Not Present Not Present		
	If the samples are preserved, are the preservatives identified?			7	No	H			
	If No, adjusted by?								
COC included the requested analyses? COC signed when relinquished and received? Samples received on ice? Samples properly preserved? Voa vials for aqueous samples have zero headspace?			Yes Yes Yes Yes Yes	\ \ \	No No No No	V No	o VOA vials su	abmitted	✓
Cooler Comments:									
ANY "NO" EVALUA	TION (excluding After-Hour Receip	t) REQUIRES CLIEN	T NOTII	FICATIO	ON.				
Sample ID	Client Sample ID	Comments							
16L1155-01	1-JAS-OB-S1	LIMITED SAMPLE							
16L1155-02	2-JAS-Kitchen-S1								
16L1155-03	3-JAS-Kitchen-S2								
16L1155-04	4-JAS-Kitchen-Pot Filler								
16L1155-05	5-JAS-Kitchen-S3-Triple Bowl								
16L1155-06	6-JAS-Kitchen-S4-Triple Bowl								
16L1155-07	7-JAS-2-S1								
16L1155-08	8-JAS-29-Gym Office-S1								

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





VPS

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16L1155 Karen Ziolkowski The Lotis Engineering Group, P.C. - East Amherst N JAS 12/19/2016



