December 27, 2016

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

Work Order No.: 16L1160

Re: CPE

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 17 sample(s) on 12/19/2016 10:55:00AM for the analyses presented in the following report as Work Order 16L1160.

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

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WORK ORDER SAMPLE SUMMARY

Date: *Tuesday, December 27, 2016*

Client: The Lotis Engineering Group, P.C.
Project: CPE
Lab Order: 16L1160

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16L1160-01	1-CPE-201-Bathroom Sink		12/15/2016 06:34	12/19/2016 10:55:00AM
16L1160-02	2-CPE-114-s		12/15/2016 07:09	12/19/2016 10:55:00AM
16L1160-03	3-CPE-214-S		12/15/2016 07:00	12/19/2016 10:55:00AM
16L1160-04	4-CPE-215-S		12/15/2016 06:58	12/19/2016 10:55:00AM
16L1160-05	5-CPE-216-S1	Classroom	12/15/2016 06:55	12/19/2016 10:55:00AM
16L1160-06	6-CPE-216-S2	Bathroom	12/15/2016 06:55	12/19/2016 10:55:00AM
16L1160-07	7-CPE-223-S		12/15/2016 06:50	12/19/2016 10:55:00AM
16L1160-08	8-CPE-224-S1		12/15/2016 06:47	12/19/2016 10:55:00AM
16L1160-09	9-CPE-225-S1		12/15/2016 07:14	12/19/2016 10:55:00AM
16L1160-10	10-CPE-226-S1		12/15/2016 06:45	12/19/2016 10:55:00AM
16L1160-11	11-CPE-227-S		12/15/2016 06:43	12/19/2016 10:55:00AM
16L1160-12	12-CPE-212-S	Faculty Room	12/15/2016 06:45	12/19/2016 10:55:00AM
16L1160-13	13-CPE-Girls Bathroom Sink	Across from 222	12/15/2016 06:46	12/19/2016 10:55:00AM
16L1160-14	14-CPE-109-Bubbler		12/15/2016 07:11	12/19/2016 10:55:00AM
16L1160-15	15-CPE-Kitchen Sprayer		12/15/2016 07:15	12/19/2016 10:55:00AM
16L1160-16	16-CPE-106-Nurses Bathroom-S		12/15/2016 07:18	12/19/2016 10:55:00AM
16L1160-17	17-CPE-106 Nurses Office-Snk		12/15/2016 07:18	12/19/2016 10:55:00AM

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Analytical Results

Date: *Tuesday, December 27, 2016*

Client:	The Lotis Engineering Group, P.C.	***Work Order:***	16L1160
Client Project:	CPE	***Received:***	12/19/2016 10:55

Analyses	Certs	Result	Units	Qual	Analyzed	Tech	Method
01 1-CPE-201-Bathroom Sink							*Collected: 12/15/2016 06:34*
Lead	**gdmnoi**	***19.5***	ug/L		12/21/2016 16:27	RPL	EPA 200.8 Rev 5.4
02 2-CPE-114-s							*Collected: 12/15/2016 07:09*
Lead	**gdmnoi**	***23.3***	ug/L		12/21/2016 16:28	RPL	EPA 200.8 Rev 5.4
03 3-CPE-214-S							*Collected: 12/15/2016 07:00*
Lead	**dgimno**	***93.2***	ug/L		12/23/2016 15:45	RPL	EPA 200.8 Rev 5.4
04 4-CPE-215-S							*Collected: 12/15/2016 06:58*
Lead	**gdmnoi**	***28.8***	ug/L		12/21/2016 16:29	RPL	EPA 200.8 Rev 5.4
05 5-CPE-216-S1 - Classroom							*Collected: 12/15/2016 06:55*
Lead	**gdmnoi**	***38.5***	ug/L		12/21/2016 16:30	RPL	EPA 200.8 Rev 5.4
06 6-CPE-216-S2 - Bathroom							*Collected: 12/15/2016 06:55*
Lead	**gdmnoi**	***17.9***	ug/L		12/21/2016 16:34	RPL	EPA 200.8 Rev 5.4
07 7-CPE-223-S							*Collected: 12/15/2016 06:50*
Lead	**gdmnoi**	***14.1***	ug/L		12/21/2016 16:35	RPL	EPA 200.8 Rev 5.4
08 8-CPE-224-S1							*Collected: 12/15/2016 06:47*
Lead	**gdmnoi**	***36.6***	ug/L		12/21/2016 16:36	RPL	EPA 200.8 Rev 5.4
09 9-CPE-225-S1							*Collected: 12/15/2016 07:14*
Lead	**gdmnoi**	***24.9***	ug/L		12/21/2016 16:39	RPL	EPA 200.8 Rev 5.4
10 10-CPE-226-S1							*Collected: 12/15/2016 06:45*
Lead	**gdmnoi**	***30.4***	ug/L		12/21/2016 16:40	RPL	EPA 200.8 Rev 5.4

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Analytical Results

Date: *Tuesday, December 27, 2016*

11	*11-CPE-227-S*							*Collected: 12/15/2016 06:43*	
Lead		**gdmnoi**	***34.4***	ug/L		12/21/2016	16:41	RPL	EPA 200.8 Rev 5.4
12	*12-CPE-212-S - Faculty Room*							*Collected: 12/15/2016 06:45*	
Lead		**gdmnoi**	***12.7***	ug/L		12/21/2016	16:42	RPL	EPA 200.8 Rev 5.4
13	*13-CPE-Girls Bathroom Sink - Across from 222*							*Collected: 12/15/2016 06:46*	
Lead		**gdmnoi**	***33.0***	ug/L		12/21/2016	16:43	RPL	EPA 200.8 Rev 5.4
14	*14-CPE-109-Bubbler*							*Collected: 12/15/2016 07:11*	
Lead		**gdmnoi**	***20.0***	ug/L		12/21/2016	16:45	RPL	EPA 200.8 Rev 5.4
15	*15-CPE-Kitchen Sprayer*							*Collected: 12/15/2016 07:15*	
Lead		**gdmnoi**	***269***	ug/L	E	12/21/2016	16:46	RPL	EPA 200.8 Rev 5.4
16	*16-CPE-106-Nurses Bathroom-S*							*Collected: 12/15/2016 07:18*	
Lead		**gdmnoi**	***15.6***	ug/L		12/21/2016	16:49	RPL	EPA 200.8 Rev 5.4
17	*17-CPE-106 Nurses Office-Snk*							*Collected: 12/15/2016 07:18*	
Lead		**gdmnoi**	***11.1***	ug/L		12/22/2016	12:40	SJE	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)
[i] Kansas Dept Health & Env. NELAP (#E-10397)
[m] New York State Department of Health Wadsworth (#12006)
[n] Pennsylvania Department of Environmental Protect (#68-04863)
[o] Virginia Department of General Services Division of Consolidated Laboratory Services (#7990)

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COOLER INSPECTION

Date: Tuesday, December 27, 2016

Client Name: The Lotis Engineering Group, P.C.

Date/Time Received: 12/19/2016 10:55

Work Order Number: 16L1160

Received by: Nicole Rainwater

Checklist completed by: 12/20/2016 2:56:00PM | Dave Bryant

Reviewed by: 12/27/2016 | KAZ

Carrier Name: UPS

Cooler ID: Default Cooler

Container/Temp Blank Temperature: -0.8° C

After-Hour Arrival?	Yes	☐	No	☑		
Shipping container/cooler in good condition?	Yes	☑	No	☐	Not Present	☐
Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	Not Present	☑
Custody seals intact on sample containers?	Yes	☐	No	☐	Not Present	☑
COC present?	Yes	☑	No	☐		
COC included sufficient client identification?	Yes	☑	No	☐		
COC included sufficient sample collector information?	Yes	☐	No	☑		
COC included a sample description?	Yes	☑	No	☐		
COC agrees with sample labels?	Yes	☑	No	☐		
COC identified the appropriate matrix?	Yes	☑	No	☐		
COC included date of collection?	Yes	☑	No	☐		
COC included time of collection?	Yes	☑	No	☐		
COC identified the appropriate number of containers?	Yes	☐	No	☑		
Samples in proper container/bottle?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		
All samples received within holding time?	Yes	☑	No	☐		
If the samples are preserved, are the preservatives identified?	Yes	☑	No	☐		

If No, adjusted by? _____

COC included the requested analyses?	Yes	☑	No	☐		
COC signed when relinquished and received?	Yes	☑	No	☐		
Samples received on ice?	Yes	☐	No	☑		
Samples properly preserved?	Yes	☑	No	☐		
Voa vials for aqueous samples have zero headspace?	Yes	☐	No	☐	No VOA vials submitted	☑

Cooler Comments:

ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.

Sample ID	Client Sample ID	Comments
16L1160-01	1-CPE-201-Bathroom Sink	
16L1160-02	2-CPE-114-s	
16L1160-03	3-CPE-214-S	
16L1160-04	4-CPE-215-S	
16L1160-05	5-CPE-216-S1	
16L1160-06	6-CPE-216-S2	
16L1160-07	7-CPE-223-S	
16L1160-08	8-CPE-224-S1	
16L1160-09	9-CPE-225-S1	
16L1160-10	10-CPE-226-S1	
16L1160-11	11-CPE-227-S	
16L1160-12	12-CPE-212-S	
16L1160-13	13-CPE-Girls Bathroom Sink	
16L1160-14	14-CPE-109-Bubbler	
16L1160-15	15-CPE-Kitchen Sprayer	
16L1160-16	16-CPE-106-Nurses Bathroom-S	
16L1160-17	17-CPE-106 Nurses Office-Snk	

16L1160

SampleID	Matrix	SampleName	SampleAlias	Sampled	SampledBy	
1	Aqueous	[redacted]				-01
2	Aqueous					-02
3	Aqueous					-03
4	Aqueous					-04
5	Aqueous					-05
6	Aqueous					-06
7	Aqueous					-07
8	Aqueous					-08
9	Aqueous					-09
10	Aqueous					10
11	Aqueous					11
12	Aqueous					12
13	Aqueous					13
14	Aqueous					14
15	Aqueous					15
16	Aqueous					16
17	Aqueous					-17

UPS

Rec@Lab: Nicole Reinwald 12.19.16 @ 1055

-08
-10
-8°C NI