

October 21, 2016

Adelaide Environmental Health
1511 Route 22, Suite C24
Brewster, NY 10509

Work Order No.: 1611852

Re: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive

Dear John Soter:

Microbac Laboratories, Inc. - Chicagoland Division received 21 sample(s) on 9/28/2016 9:25:24AM for the analyses presented in the following report as Work Order 1611852.

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.



Ron Misiunas
Director of Laboratory Services

**WORK ORDER SAMPLE SUMMARY****Date:** *Friday, October 21, 2016*

Client: Adelaide Environmental Health
Project: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive
Lab Order: 16I1852

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
16I1852-01	16-117-PR-LES-BF-051	1ST Floor Nurses Office	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-02	16-117-PR-LES-BF-052	1ST Floor 8E B/G Toile	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-03	16-117-PR-LES-BF-053	1ST Floor Faculty Loui	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-04	16-117-PR-LES-BF-054	1ST Floor 10A Room 1	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-05	16-117-PR-LES-BF-055	1ST Floor 12A Room 1	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-06	16-117-PR-LES-BF(A)-056	1ST Floor 12B Girls Toi	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-07	16-117-PR-LES-BF(B)-057	1ST Floor 12B Girls Toi	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-08	16-117-PR-LES-BF(C)-058	1ST Floor 12B Girls Toi	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-09	16-117-PR-LES-BF(A)-059	1ST Floor 12C Boys To	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-10	16-117-PR-LES-BF(B)-060	1ST Floor 12C Boys To	09/24/2016 00:00	9/30/2016 6:13:04PM
16I1852-11	16-117-PR-LES-BF(C)-61	1ST Floor 12C Boys To	09/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-12	16-117-PR-LES-CF-62	1ST Floor Classroom	109/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-13	16-117-PR-LES-CF-63	1ST Floor Classroom	409/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-14	16-117-PR-LES-CF-64	1ST Floor Classroom	509/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-15	16-117-PR-LES-CF-65	1ST Floor Classroom	109/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-16	16-117-PR-LES-CF-66	1ST Floor Classroom	109/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-17	16-117-PR-LES-CFF-67	1ST Floor Classroom	109/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-18	16-117-PR-LES-CFF-68	1ST Floor Classroom	109/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-19	16-117-PR-LES-CFF-69	1ST Floor Classroom	109/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-20	16-117-PR-LES-CF(A)-070	1ST Floor Classroom	209/24/2016 00:00	9/30/2016 6:13:05PM
16I1852-21	16-117-PR-LES-CF(B)-071	1ST Floor Classroom	209/24/2016 00:00	9/30/2016 6:13:05PM

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

CASE NARRATIVE**Date:** *Friday, October 21, 2016*

Client: Adelaide Environmental Health
Project: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive
Lab Order: 1611852

The Matrix Spike Duplicate performed on the following sample failed the precision criteria for lead. The accuracy criteria were met by both the Matrix Spike and Matrix Spike Duplicate. This data is indicative of a bias related to sample matrix.

<u>Laboratory ID</u>	<u>Sample Name</u>
1611852-01	16-117-PR-LES-BF-051

Analytical Results

Date: *Friday, October 21, 2016*

Client: Adelaide Environmental Health **Work Order:** 1611852
Client Project: Lincoln Avenue Elementary, 115 Lincoln Pearl Rive **Received:** 09/30/2016 18:13

Analyses	Certs	Result	Units	Qual	Analyzed	Tech	Method
01 16-117-PR-LES-BF-051 - 1ST Floor Nurses Office Bathroom Sink							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	3.7	ug/L		10/13/2016 13:49	RPL	EPA 200.8 Rev 5.4
02 16-117-PR-LES-BF-052 - 1ST Floor 8E B/G Toilet Sink							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.8	ug/L		10/13/2016 13:50	RPL	EPA 200.8 Rev 5.4
03 16-117-PR-LES-BF-053 - 1ST Floor Faculty Lounge Bathroom Sink							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.8	ug/L		10/13/2016 13:51	RPL	EPA 200.8 Rev 5.4
04 16-117-PR-LES-BF-054 - 1ST Floor 10A Room 10 Bathroom Sink							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.4	ug/L		10/13/2016 13:51	RPL	EPA 200.8 Rev 5.4
05 16-117-PR-LES-BF-055 - 1ST Floor 12A Room 12 Bathroom Sink							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	2.0	ug/L		10/13/2016 13:52	RPL	EPA 200.8 Rev 5.4
06 16-117-PR-LES-BF(A)-056 - 1ST Floor 12B Girls Toilet Sink Left							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.6	ug/L		10/13/2016 13:54	RPL	EPA 200.8 Rev 5.4
07 16-117-PR-LES-BF(B)-057 - 1ST Floor 12B Girls Toilet Sink Middle							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.7	ug/L		10/13/2016 13:55	RPL	EPA 200.8 Rev 5.4
08 16-117-PR-LES-BF(C)-058 - 1ST Floor 12B Girls Toilet Sink Right							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.5	ug/L		10/13/2016 13:57	RPL	EPA 200.8 Rev 5.4
09 16-117-PR-LES-BF(A)-059 - 1ST Floor 12C Boys Toilet Sink Left							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	< 1.0	ug/L		10/13/2016 13:57	RPL	EPA 200.8 Rev 5.4
10 16-117-PR-LES-BF(B)-060 - 1ST Floor 12C Boys Toilet Sink Middle							<i>Collected: 09/24/2016 00:00</i>
Lead	gdmnoi	1.5	ug/L		10/13/2016 13:58	RPL	EPA 200.8 Rev 5.4

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Analytical Results

Date: *Friday, October 21, 2016*

11	16-117-PR-LES-BF(C)-61 - 1ST Floor 12C Boys Toilet Sink Right						Collected: 09/24/2016 00:00
Lead	gdmnoi	3.4	ug/L	10/13/2016	13:59	RPL	EPA 200.8 Rev 5.4
12	16-117-PR-LES-CF-62 - 1ST Floor Classroom 1 Sink						Collected: 09/24/2016 00:00
Lead	gdmnoi	13	ug/L	10/13/2016	13:59	RPL	EPA 200.8 Rev 5.4
13	16-117-PR-LES-CF-63 - 1ST Floor Classroom 4 Sink						Collected: 09/24/2016 00:00
Lead	gdmnoi	1.6	ug/L	10/13/2016	14:00	RPL	EPA 200.8 Rev 5.4
14	16-117-PR-LES-CF-64 - 1ST Floor Classroom 5 Sink						Collected: 09/24/2016 00:00
Lead	gdmnoi	12	ug/L	10/13/2016	14:01	RPL	EPA 200.8 Rev 5.4
15	16-117-PR-LES-CF-65 - 1ST Floor Classroom 13 Sink						Collected: 09/24/2016 00:00
Lead	gdmnoi	1.4	ug/L	10/13/2016	14:01	RPL	EPA 200.8 Rev 5.4
16	16-117-PR-LES-CF-66 - 1ST Floor Classroom 15 Fountain						Collected: 09/24/2016 00:00
Lead	gdmnoi	6.5	ug/L	10/13/2016	14:05	RPL	EPA 200.8 Rev 5.4
17R	16-117-PR-LES-CFF-67 - 1ST Floor Classroom 16 Fountain						Collected: 09/24/2016 00:00
Lead	dgmno	20	ug/L	10/12/2016	0:47	SJE	EPA 200.8 Rev 5.4
18	16-117-PR-LES-CFF-68 - 1ST Floor Classroom 17 Fountain						Collected: 09/24/2016 00:00
Lead	gdmnoi	4.9	ug/L	10/13/2016	14:05	RPL	EPA 200.8 Rev 5.4
19	16-117-PR-LES-CFF-69 - 1ST Floor Classroom 18 Fountain						Collected: 09/24/2016 00:00
Lead	gdmnoi	1.7	ug/L	10/13/2016	14:06	RPL	EPA 200.8 Rev 5.4
20	16-117-PR-LES-CF(A)-070 - 1ST Floor Classroom 20 Sink Left						Collected: 09/24/2016 00:00
Lead	gdmnoi	1.2	ug/L	10/13/2016	14:06	RPL	EPA 200.8 Rev 5.4
21	16-117-PR-LES-CF(B)-071 - 1ST Floor Classroom 20 Sink Right						Collected: 09/24/2016 00:00
Lead	gdmnoi	< 1.0	ug/L	10/13/2016	14:07	RPL	EPA 200.8 Rev 5.4

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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	ICSA = Interference Check Standard "A"
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"
BS = Method Blank Spike	BSD = Method Blank Spike Duplicate
MS = Matrix Spike	MSD = Matrix Spike Duplicate
ICB = Initial Calibration Blank	ICV = Initial Calibration Verification
CCB = Continuing Calibration Blank	CCV = Continuing Calibration Verification
CRL = Client Required Reporting Limit	OPR = Ongoing Precision and Recovery Standard
PDS = Post Digestion Spike	SD = Serial Dilution
QCS = Quality Control Standard	

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)



COOLER INSPECTION

Client Name: Adelaide Environmental Health

Work Order Number: 1611852

Checklist completed by: 9/30/2016 6:13:04PM | Dave Bryant

Carrier Name: UPS

Date: Friday, October 21, 2016

Date/Time Received: 09/28/2016 09:25

Received by: Nicole Rainwater

Reviewed by: 10/4/2016 | KAZ

Cooler ID: Default Cooler

Container/Temp Blank Temperature: 21.4° C

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

If No, adjusted by? _____

COC included the requested analyses?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
COC signed when relinquished and received?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
Samples received on ice?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	
Samples properly preserved?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	
Voa vials for aqueous samples have zero headspace?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>

Cooler Comments: _____

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

Microbac Laboratories, Inc.

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Sample ID	Client Sample ID	Comments
16I1852-01	16-117-PR-LES-BF-051	
16I1852-02	16-117-PR-LES-BF-052	
16I1852-03	16-117-PR-LES-BF-053	
16I1852-04	16-117-PR-LES-BF-054	
16I1852-05	16-117-PR-LES-BF-055	
16I1852-06	16-117-PR-LES-BF(A)-056	
16I1852-07	16-117-PR-LES-BF(B)-057	
16I1852-08	16-117-PR-LES-BF(C)-058	
16I1852-09	16-117-PR-LES-BF(A)-059	
16I1852-10	16-117-PR-LES-BF(B)-060	
16I1852-11	16-117-PR-LES-BF(C)-61	
16I1852-12	16-117-PR-LES-CF-62	
16I1852-13	16-117-PR-LES-CF-63	
16I1852-14	16-117-PR-LES-CF-64	
16I1852-15	16-117-PR-LES-CF-65	
16I1852-16	16-117-PR-LES-CF-66	
16I1852-17	16-117-PR-LES-CFF-67	
16I1852-18	16-117-PR-LES-CFF-68	
16I1852-19	16-117-PR-LES-CFF-69	
16I1852-20	16-117-PR-LES-CF(A)-070	
16I1852-21	16-117-PR-LES-CF(B)-071	

21 samples

Field Chain-of-Custody Record

Lead in Drinking Water
 Turn around time: Standard
 Adelaide Project # BOCE:16250.05-WA

Lab Project Number: 1621892

Site: Lincoln Avenue Elementary School
 115 Lincoln Avenue
 Pearl River, NY 10965

District: Pearl River

Date: 9/24/16

Inspector: P. Conde



161852
 Adelaide Environmental Health - Brewster NY
 Lincoln Avenue Elementary School
 Karen Ziolkowski
 09/28/2016

Sample ID	Floor #	Sample Description	Analysis	Matrix	Container	
R-LES- BF - 051	1	Nurses office Bathroom Sink	Lead	Drinking Water	250 ml Bottle	01
R-LES- BF - 052		8E BIG Toilet Sink	Lead	Drinking Water	250 ml Bottle	02
R-LES- BF - 053		Faculty Lounge Bathroom Sink	Lead	Drinking Water	250 ml Bottle	03
R-LES- BF - 054		10A Room 10 Bathroom Sink	Lead	Drinking Water	250 ml Bottle	04
R-LES- BFF - 055		12A Room 12 Bathroom Sink	Lead	Drinking Water	250 ml Bottle	05
R-LES- BFA - 056		12B Girls Toilet Sink RT (Not Working) ^{PC} 9/24	Lead	Drinking Water	250 ml Bottle	06
R-LES- BFB - 057		↓ ↓ ↓ ↓ NED	Lead	Drinking Water	250 ml Bottle	07
16-117-PR-LES- BFC - 058		↓ ↓ ↓ ↓ RT	Lead	Drinking Water	250 ml Bottle	08
16-117-PR-LES- BEA - 059		12C Boys Toilet Sink LT	Lead	Drinking Water	250 ml Bottle	09
16-117-PR-LES- BFD - 060		↓ ↓ ↓ ↓ NED (Not Working) ^{PC} 9/24	Lead	Drinking Water	250 ml Bottle	10
16-117-PR-LES- BFC - 061		↓ ↓ ↓ ↓ RT	Lead	Drinking Water	250 ml Bottle	11
16-117-PR-LES- CF - 062		Classroom 1 Caustic ^{PC} Sink	Lead	Drinking Water	250 ml Bottle	12
16-117-PR-LES- CF - 063		Classroom 4 Caustic Sink	Lead	Drinking Water	250 ml Bottle	13
16-117-PR-LES- CF - 064		Classroom 5 Sink	Lead	Drinking Water	250 ml Bottle	14
16-117-PR-LES- CF - 065		Classroom 13 Sink	Lead	Drinking Water	250 ml Bottle	15
16-117-PR-LES- CF - 066	↓	Classroom 15 Sink	Lead	Drinking Water	250 ml Bottle	16

Samples taken by: [Signature] 9/24/16
 Signature / Date

Samples relinquished by: [Signature] 9/24/16
 Signature / Date

Samples received by: [Signature] 9/28/16
 Signature / Date
 NI 2.19
 -0.5
 2.142
 0925

UPS

Field Chain-of-Custody Record

Lead in Drinking Water
 Turn around time: Standard
 Adelaide Project # BOCE:16250.05-WA

Lab Project Number: _____

Site: Lincoln Avenue Elementary School
 115 Lincoln Avenue
 Pearl River, NY 10965

District: Pearl River

Date: 9/24/16

Inspector: P. Conde

Sample ID	Floor #	Sample Description	Analysis	Matrix	Container	
16-117-PR-LES- <u>CFF</u> - 067		<u>Classroom 18 Fountain</u>	Lead	Drinking Water	250 ml Bottle	<u>17</u>
16-117-PR-LES- <u>CFF</u> - 068		<u>Classroom 17 fountain</u>	Lead	Drinking Water	250 ml Bottle	<u>18</u>
16-117-PR-LES- <u>CFF</u> - 069		<u>" 18 "</u>	Lead	Drinking Water	250 ml Bottle	<u>19</u>
16-117-PR-LES- <u>CFA</u> - 070		<u>" 20 Classroom Sink LT</u>	Lead	Drinking Water	250 ml Bottle	<u>20</u>
16-117-PR-LES- <u>CFB</u> - 071		<u>" 20 Classroom Sink RT</u>	Lead	Drinking Water	250 ml Bottle	<u>21</u>
16-117-PR-LES- - 072			Lead	Drinking Water	250 ml Bottle	<u>22</u>
16-117-PR-LES- - 073			Lead	Drinking Water	250 ml Bottle	<u>23</u>
16-117-PR-LES- - 074			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 075			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 076			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 077			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 078			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 079			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 080			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 081			Lead	Drinking Water	250 ml Bottle	
16-117-PR-LES- - 082			Lead	Drinking Water	250 ml Bottle	

Samples taken by: [Signature] 9/24/16
 Signature / Date

Samples relinquished by: [Signature] 9/24/16
 Signature / Date

Samples received by: [Signature] 9-28-16
 Signature / Date

VPS NI 21.9 21.5 21.4°C 0925