

APPENDIX I

LABORATORY ANALYTICAL DATA


CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc. 1805 Atlantic Avenue Manasquan NJ 08736 Client: BRI493	Report Date: 5/26/2016 Report No.: 509891 - Lead Water Project: Monmouth Campus Project No.: 14BR141Q
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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5930115 Client No.: MN10A	Location: Main Office-BR-101 FD, 5-14-16	Result(ppb): 100
Lab No.: 5930116 Client No.: MN10B	Location: Main Office-BR-101 FL, 5-14-16	Result(ppb): <2.0
Lab No.: 5930117 Client No.: MN11A	Location: Lobby FD, 5-14-16	Result(ppb): <2.0
Lab No.: 5930118 Client No.: MN11B	Location: Lobby FL, 5-14-16	Result(ppb): <2.0
Lab No.: 5930119 Client No.: MN12A	Location: 107 Sink FD, 5-14-16	Result(ppb): <2.0
Lab No.: 5930120 Client No.: MN12B	Location: 107 Sink FL, 5-14-16	Result(ppb): <2.0
Lab No.: 5930121 Client No.: MN13A	Location: Faculty Room Bath Left FD, 5-14-16	Result(ppb): <2.0
Lab No.: 5930122 Client No.: MN13B	Location: Faculty Room Bath Left FL, 5-14-16	Result(ppb): <2.0
Lab No.: 5930123 Client No.: MN14A	Location: Faculty Room Bath Right FD, 5-14-16	Result(ppb): <2.0
Lab No.: 5930124 Client No.: MN14B	Location: Faculty Room Bath Right FL, 5-14-16	Result(ppb): <2.0

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 5/17/2016
Date Analyzed: 5/26/2016 3:06:50 PM
Signature: 
Analyst: Chad Shaffer

Approved By: 
 Frank E. Ehrenfeld, III
 Laboratory Director


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LEAD WATER SAMPLE ANALYSIS SUMMARY

<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930125 Client No.: MN15A	Location: 108 Bath Right FD, 5-14-16	Result(ppb): 850
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930126 Client No.: MN15B	Location: 108 Bath Right FL, 5-14-16	Result(ppb): 61
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930127 Client No.: MN16A	Location: 107 Right FD, 5-14-16	Result(ppb): 260
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Lab No.: 5930128 Client No.: MN16B	Location: 107 Right FL, 5-14-16	Result(ppb): 570
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Lab No.: 5930129 Client No.: MN17A	Location: 107 Left FD, 5-14-16	Result(ppb): 61
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Lab No.: 5930130 Client No.: MN17B	Location: 107 Left FL, 5-14-16	Result(ppb): 33
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Lab No.: 5930131 Client No.: MN18A	Location: 114 Right FD, 5-14-16	Result(ppb): 13
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930132 Client No.: MN18B	Location: 114 Right FL, 5-14-16	Result(ppb): 5.7
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930133 Client No.: MN19A	Location: 114 Left FD, 5-14-16	Result(ppb): 260
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Lab No.: 5930134 Client No.: MN19B	Location: 114 Left FL, 5-14-16	Result(ppb): 33
<hr style="border-top: 1px dashed black;"/>		

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LEAD WATER SAMPLE ANALYSIS SUMMARY

<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930135 Client No.: MN20A	Location: 113 Right FD, 5-14-16	Result(ppb): 390
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930136 Client No.: MN20B	Location: 113 Right FL, 5-14-16	Result(ppb): <2.0
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930137 Client No.: MN21A	Location: 113 Left FD, 5-14-16	Result(ppb): 94
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930138 Client No.: MN21B	Location: 113 Left FL, 5-14-16	Result(ppb): 16
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Lab No.: 5930139 Client No.: MN22A	Location: 114 Sink FD, 5-14-16	Result(ppb): 21
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930140 Client No.: MN22B	Location: 114 Sink FL, 5-14-16	Result(ppb): 9.3
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Lab No.: 5930141 Client No.: MN23A	Location: 115 S1 FD, 5-14-16	Result(ppb): 7.5
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Lab No.: 5930142 Client No.: MN23B	Location: 115 S1 FL, 5-14-16	Result(ppb): 2.7
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930143 Client No.: MN24A	Location: 115 S2 FD, 5-14-16	Result(ppb): 2.5
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930144 Client No.: MN24B	Location: 115 S2 FL, 5-14-16	Result(ppb): <2.0
<hr style="border-top: 1px dashed black;"/>		

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LEAD WATER SAMPLE ANALYSIS SUMMARY

<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930145 Client No.: MN25A	Location: 115 S3 FD, 5-14-16	Result(ppb): 17
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930146 Client No.: MN25B	Location: 115 S3 FL, 5-14-16	Result(ppb): <2.0
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930147 Client No.: MN26A	Location: 116 S1 FD, 5-14-16	Result(ppb): 220
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930148 Client No.: MN26B	Location: 116 S1 FL, 5-14-16	Result(ppb): 3.1
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930149 Client No.: MN27A	Location: 116 S2 FD, 5-14-16	Result(ppb): 92
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930150 Client No.: MN27B	Location: 116 S2 FL, 5-14-16	Result(ppb): 6.5
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930151 Client No.: MN28A	Location: 116 S3 FD, 5-14-16	Result(ppb): 2.3
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930152 Client No.: MN28B	Location: 116 S3 FL, 5-14-16	Result(ppb): 9.7
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930153 Client No.: MN29A	Location: 116 S4 FD, 5-14-16	Result(ppb): 10
<hr style="border-top: 1px dashed black;"/>		
Lab No.: 5930154 Client No.: MN29B	Location: 116 S4 FL, 5-14-16	Result(ppb): 19
<hr style="border-top: 1px dashed black;"/>		

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5930155 Client No.: MN30A	Location: 118 Sink FD, 5-14-16	Result(ppb): 4.4
Lab No.: 5930156 Client No.: MN30B	Location: 118 Sink FL, 5-14-16	Result(ppb): <2.0
Lab No.: 5930157 Client No.: MN31A	Location: 120 Sink FD, 5-14-16	Result(ppb): 11
Lab No.: 5930158 Client No.: MN31B	Location: 120 Sink FL, 5-14-16	Result(ppb): 4.6
Lab No.: 5930159 Client No.: MN32A	Location: 119 Sink FD, 5-14-16	Result(ppb): 8.4
Lab No.: 5930160 Client No.: MN32B	Location: 119 Sink FL, 5-14-16	Result(ppb): <2.0
Lab No.: 5930161 Client No.: MN33A	Location: 121 Sink FD, 5-14-16	Result(ppb): 4.6
Lab No.: 5930162 Client No.: MN33B	Location: 121 Sink FL, 5-14-16	Result(ppb): 22
Lab No.: 5930163 Client No.: MN34	Location: Blank, 5-14-16	Result(ppb): <2.0

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CERTIFICATE OF ANALYSIS

Client: Brinkerhoff Environmental Services Inc.
1805 Atlantic Avenue
Manasquan NJ 08736

Report Date: 5/26/2016
Report No.: 509891 - Lead Water
Project: Monmouth Campus
Project No.: 14BR141Q

Client: BRI493

Appendix to Analytical Report:

Customer: Brinkerhoff Environmental Services Inc.
Address: 1805 Atlantic Avenue
Customer Contact: Jason Hooper
Analysis: AAS-GF - ASTM D3559-08D, USEPA 40CFR 141.11B, 2010

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: cdavis@iatl.com
iATL Account Representative: Pete Lesniak
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Water
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

Information Pertinent to this Report:

Analysis by: AAS Graphite Furnace.
- ASTM D3559-08D, USEPA 40CFR 141.11B, 2010
- USEPA 200.9Pb, AAS-GF, RL <2 ppb/sample
- USEPA SW 846-7000B.7421 - Pb(AAS-GF, RL <2 ppb/sample)
Certification:
- NYS-DOH No. 11021
- NJDEP No. 03863

Regulatory limit for lead in drinking water is 15.0 parts per billion as cited in EPA 40 CFR 141.11 National Primary Drinking Water Regulations, Subpart B: Maximum contaminant levels for inorganic chemicals.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Sample results are not corrected for contamination by field or analytical blanks.

PPB = Parts per billion. 1 µg/L = 1 ppb MDL = 0.24 PPB Reporting Limit (RL) = 2.0 PPB

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

Water Sample Turbidity greater than 1.0 NTU does not meet Federal and NJ State Primary & Secondary Drinking Water Standards.

Chain of Custody

Contact Information	
Client Company: <u>Brin Kerchoff</u>	Project Number: <u>14BR141Q</u>
Office Address: <u>1805 Atlantic Ave.</u>	Project Name: <u>Monmouth Campus</u>
City, State, Zip: <u>Manasquan, NJ 08736</u>	Primary Contact: <u>Chris Glowacki</u>
Fax Number: _____	Office Phone: <u>732-223-2225</u>
Email Address: <u>Hazmat Group</u>	Cell Phone: <u>609-751-4158</u>

Matrix:	
Air <input type="checkbox"/>	Soil <input type="checkbox"/>
Water <input checked="" type="checkbox"/>	Paint <input type="checkbox"/>
	Bulk <input type="checkbox"/>
	Surface Dust / Wipe <input type="checkbox"/>
	Other <input type="checkbox"/> _____
Analysis Method:	
<input type="checkbox"/> PCM: NIOSH 7400	<input type="checkbox"/> PLM Use Bulk Asbestos Sample Log
<input type="checkbox"/> PCM: OSHA	<input type="checkbox"/> PLM: Bulk Asbestos EPA 600
<input type="checkbox"/> PCM: TWA	<input type="checkbox"/> PLM: Point Counting 198.1
<input type="checkbox"/> Total Dust: NIOSH 0500	<input type="checkbox"/> PLM: NOB via 198.6 (PLM only)
<input type="checkbox"/> Total Dust: NIOSH 0600	<input type="checkbox"/> If <1% by PLM, to TEM via 198.4 2
<input type="checkbox"/> AAS: Lead in Air	<input type="checkbox"/> TEM: AHERA
<input checked="" type="checkbox"/> AAS: Lead in Water	<input type="checkbox"/> TEM: NIOSH 7402
<input type="checkbox"/> AAS: Lead in Paint	<input type="checkbox"/> TEM: ISO 10312
<input type="checkbox"/> AAS: Lead Dust/Wipe ₁	<input type="checkbox"/> TEM: ISO 13794
<input type="checkbox"/> AAS: Lead in Soil	<input type="checkbox"/> TEM: Wipe ASTM 6480
<input type="checkbox"/> AAS: TCLP	<input type="checkbox"/> TEM: Microvac ASTM D5755
<input type="checkbox"/> AAS: Metals [Cd, Zn, Cr-circle]	<input type="checkbox"/> TEM: Microvac ASTM D5756
	<input type="checkbox"/> TEM: NOB 198.4
	<input type="checkbox"/> TEM: Bulk Analysis
	<input type="checkbox"/> TEM: Potable Water
	<input type="checkbox"/> TEM: Non-Potable Water
	<input type="checkbox"/> TEM: Other _____
	<input type="checkbox"/> Soil: Call for Available Methods

Special Instructions: _____

E-MAILED
5/26/16 AD

Turnaround Time	
Preliminary Results Requested Date: _____	<input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax
Specific date / time	<input type="checkbox"/> 10 Day <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH**
* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***	

Shipping Method	
<input type="checkbox"/> FedEx	<input type="checkbox"/> UPS
<input type="checkbox"/> USPS	<input type="checkbox"/> Other _____

Chain of Custody			
Relinquished (Name/Organization): <u>[Signature]</u>	Date: <u>5/14/16</u>	Time: _____	RECEIVE
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): _____	Date: <u>5/18/16</u>	Time: _____	
Analyst (Name(s) / iATL): _____	Date: _____	Time: _____	
QA/QC Review (Name / iATL): <u>Costello ML</u>	Date: <u>5/26/16</u>	Time: _____	MAY 17 2016
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

Sample Log

—Environmental Lead—

Client: Brinkerhoff Project: 14BR141Q

Sampling Date/Time: 5/14/2016

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
MN10A	5930115	main office - BR-101 FD			1031	250ml	
B	5930116	↓ FL			1031		
MN11A	5930117	Lobby FD			1038		
B	5930118	↓ FL			1038		
MN12A	5930119	107 sink 107 sink FD			1122		
B	5930120	↓ 107 sink FL			1122		
MN13A	5930121	Faculty Room Bath, Lft FD			1057		
B	5930122	↓ FL			1057		
MN14A	5930123	Faculty Room Bath, Rgt FD			1100		
B	5930124	↓ FL			1100		
MN15A	5930125	107 Bath Lft FD			1113		
B	5930126	↓ Rgt FL			1113		
MN16A	5930127	107 Rgt FD			1126		
B	5930128	107 Rgt FL			1126		
acidified: VC						↓	

* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

Sample Log

-Environmental Lead-

Client: Brin Kerchoff Project: 14BR141Q
Sampling Date/Time: 5/14/2016

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
MN17 A	5930129	107 Lft FD			1135	250ml	
B	5930130	↓ Fl			1135		
MN18 A	5930131	114 Rgt FD			1143		
B	5930132	↓ FL			1143		
MN19 A	5930133	114 Lft FD			1146		
B	5930134	114 Lft FL			1146		
MN20 A	5930135	113 Rgt FD			1151		
B	5930136	113 Rgt FL			1151		
MN21 A	5930137	113 Lft FD			1154		
B	5930138	113 Lft FL			1154		
MN22 A	5930139	114 Sink FD			1157		
B	5930140	114 Sink FL			1157		
MN23 A	5930141	115 SI FD			1214		
B	5930142	115 SI FL			1214	↓	
acid: VC							

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Sample Log

-Environmental Lead-

Client: Brinkerhoff Project: 14BR141Q
Sampling Date/Time: 5/14/2016

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft ²) Volume (L)	Results ()
MN24A	5030143	115 S2 FD			1215	250 mL	
B	5030144	115 S2 FL			1215		
MN25A	5030145	115 S3 FD			1218		
B	5030146	115 S3 FL			1218		
MN26A	5030147	116 S1 FD			1220		
B	5030148	FL			1226		
MN27A	5030149	116 S2 FD			1222		
B	5030150	FL			1222		
MN28A	5030151	116 S3 FD			1224		
B	5030152	FL			1224		
MN29A	5030153	116 S4 FD			1226		
B	5030154	FL			1226		
MN30A	5030155	118 Sink FD			1238		
B	5030156	FL			1238	N	
acc. info: VC							

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Sample Log

-Environmental Lead-

Client: Brinkerhoff Project: 14BR141Q
Sampling Date/Time: 5/14/2016

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
MN31A	5030157	rm 120 Sink FD			1233	250ml	
B	5030158	↓ FL			1233		
MN32A	5030159	rm 119 Sink FD			1235		
B	5030160	119 ↓ FL			1235		
MN33A	5030161	rm 121 Sink FD			1238		
B	5030162	↓ FL			1238		
MN34	5030163	Blank				↓	
acidified: VC		5/18/16	2:00 pm				

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 ** = Insufficient Sample Provided to Analyze (<50mg) *** = Matrix / Substrate Interference Possible
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International Asbestos
Testing Laboratories

9000 Commerce Parkway, Suite B, Mt. Laurel, NJ 08054
Telephone: 856-231-9449 Fax: 856-231-9818
INFO@IATL.COM

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 05 / 26 / 16)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	97
Lab Control Std	1.330	98
Matrix Spike - LBP *	0.30	94
Matrix Spike - Wipe *	0.43	97
Matrix Spike - Soil *	0.387	98
Matrix spike - Air *	0.050	106
2.5 ppm Standard	0.25	104
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	101

AIHA-LAP, LLC No. 100188

NYSDOH-ELAP No. 11021

Analysis Method: ASTM D3335-85A
NIOSH 7082
EPA SW846 3050B 7000B

Comments: IATL assumes that all sampling complies with accepted methods.
All client supplied sampling data is assumed to be correct when calculating results.
Detection limit based upon 0.2 mg/L reporting limit and sample size.
* NIST Traceable.
** 80-120% acceptable limits.

Analyzed By: R. Chad Shaffer

R. Chad Shaffer

Date: 5/26/16

Approved By: Frank E. Ehrenfeld, III

Frank E. Ehrenfeld, III
Laboratory Director