

APPENDIX I

LABORATORY ANALYTICAL DATA



9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com


CERTIFICATE OF ANALYSIS

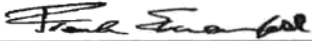
Client: Brinkerhoff Environmental Services Inc. 1805 Atlantic Avenue Manasquan NJ 08736	Report Date: 6/23/2016 Report No.: 512199 - Lead Water Project: Union Campus Project No.: 14BR141T
Client: BRI493	

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5957599 Client No.: UC-10A	Location: Lobby Bath Sink FD, 6-11-16	Result(ppb): 11
Lab No.: 5957600 Client No.: UC-10B	Location: Lobby Bath Sink FL, 6-11-16	Result(ppb): <2.0
Lab No.: 5957601 Client No.: UC-11A	Location: Kitchen DW Sink FD, 6-11-16	Result(ppb): 3.7
Lab No.: 5957602 Client No.: UC-11B	Location: Kitchen DW Sink FL, 6-11-16	Result(ppb): <2.0
Lab No.: 5957603 Client No.: UC-12A	Location: Faculty Sink 1 FD, 6-11-16	Result(ppb): 4.3
Lab No.: 5957604 Client No.: UC-12B	Location: Faculty Sink 1 FL, 6-11-16	Result(ppb): 5.3
Lab No.: 5957605 Client No.: UC-13A	Location: Faculty Sink 2 FD, 6-11-16	Result(ppb): 15
Lab No.: 5957606 Client No.: UC-13B	Location: Faculty Sink 2 FL, 6-11-16	Result(ppb): 9.1
Lab No.: 5957607 Client No.: UC-14A	Location: Room 103 Bath 1 FD, 6-11-16	Result(ppb): 2300
Lab No.: 5957608 Client No.: UC-14B	Location: Room 103 Bath 1 FL, 6-11-16	Result(ppb): 17

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

Date Received: 6/15/2016
Date Analyzed: 6/23/2016 12:00:00 AM
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director



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Report No.: 512199 - Lead Water
Project: Union Campus
Project No.: 14BR141T

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5957609 Client No.: UC-15A	Location: Room 103 Bath 2 FD, 6-11-16	Result(ppb): 3600
Lab No.: 5957610 Client No.: UC-15B	Location: Room 103 Bath 2 FL, 6-11-16	Result(ppb): 31
Lab No.: 5957611 Client No.: UC-16A	Location: Room 104 Bath 1 FD, 6-11-16	Result(ppb): 1400
Lab No.: 5957612 Client No.: UC-16B	Location: Room 104 Bath 1 FL, 6-11-16	Result(ppb): 30
Lab No.: 5957613 Client No.: UC-17A	Location: Room 101 Sink FD, 6-11-16	Result(ppb): 19
Lab No.: 5957614 Client No.: UC-17B	Location: Room 101 Sink FL, 6-11-16	Result(ppb): 3.8
Lab No.: 5957615 Client No.: UC-18A	Location: Room 101 Bath 1 FD, 6-11-16	Result(ppb): 1300
Lab No.: 5957616 Client No.: UC-18B	Location: Room 101 Bath 1 FL, 6-11-16	Result(ppb): 6.2
Lab No.: 5957617 Client No.: UC-19A	Location: Room 102 Sink 1 FD, 6-11-16	Result(ppb): 65
Lab No.: 5957618 Client No.: UC-19B	Location: Room 102 Sink 1 FL, 6-11-16	Result(ppb): 2.8

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Project: Union Campus
Project No.: 14BR141T

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5957619 Client No.: UC-20A	Location: Women's Bath Sink 1 FD, 6-11-16	Result(ppb): 59
Lab No.: 5957620 Client No.: UC-20B	Location: Women's Bath Sink 1 FL, 6-11-16	Result(ppb): 17
Lab No.: 5957621 Client No.: UC-21A	Location: Women's Bath Sink 2 FD, 6-11-16	Result(ppb): 74
Lab No.: 5957622 Client No.: UC-21B	Location: Women's Bath Sink 2 FL, 6-11-16	Result(ppb): <2.0
Lab No.: 5957623 Client No.: UC-22A	Location: Women's Bath Sink 3 FD, 6-11-16	Result(ppb): 140
Lab No.: 5957624 Client No.: UC-22B	Location: Women's Bath Sink 3 FL, 6-11-16	Result(ppb): 2.3
Lab No.: 5957625 Client No.: UC-23A	Location: Men's Bath Sink 1 FD, 6-11-16	Result(ppb): 110
Lab No.: 5957626 Client No.: UC-23B	Location: Men's Bath Sink 1 FL, 6-11-16	Result(ppb): 4.7
Lab No.: 5957627 Client No.: UC-24A	Location: Men's Bath Sink 2 FD, 6-11-16	Result(ppb): 120
Lab No.: 5957628 Client No.: UC-24B	Location: Men's Bath Sink 2 FL, 6-11-16	Result(ppb): <2.0

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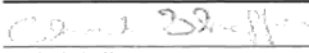
Client: Brinkerhoff Environmental Services Inc.
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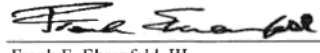
Report Date: 6/23/2016
Report No.: 512199 - Lead Water
Project: Union Campus
Project No.: 14BR141T

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 5957629 Client No.: UC-25A	Location: Men's Bath Sink 3 FD, 6-11-16	Result(ppb): 12
Lab No.: 5957630 Client No.: UC-25B	Location: Men's Bath Sink 3 FL, 6-11-16	Result(ppb): 2.8
Lab No.: 5957631 Client No.: UC-26A	Location: Men's Bath Sink 4 FD, 6-11-16	Result(ppb): 66
Lab No.: 5957632 Client No.: UC-26B	Location: Men's Bath Sink 4 FL, 6-11-16	Result(ppb): 2.0
Lab No.: 5957633 Client No.: UC-27A	Location: Room 108 Sink FD, 6-11-16	Result(ppb): 10
Lab No.: 5957634 Client No.: UC-27B	Location: Room 108 Sink FL, 6-11-16	Result(ppb): 6.5
Lab No.: 5957635 Client No.: UC-28A	Location: Room 110 Sink FD, 6-11-16	Result(ppb): 11
Lab No.: 5957636 Client No.: UC-28B	Location: Room 110 Sink FL, 6-11-16	Result(ppb): <2.0
Lab No.: 5957637 Client No.: UC-29A	Location: Room 107 Sink FD, 6-11-16	Result(ppb): <2.0
Lab No.: 5957638 Client No.: UC-29B	Location: Room 107 Sink FL, 6-11-16	Result(ppb): <2.0

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Project No.: 14BR141T

Client: BRI493

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:5957639
Client No.:UC-30A

Location:Room 106 Sink FD, 6-11-16

Result(ppb):11

Lab No.:5957640
Client No.:UC-30B

Location:Room 106 Sink FL, 6-11-16


Result(ppb):3.0

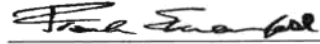
Lab No.:5957641
Client No.:UC-31

Location:Field Blank, 6-11-16

Result(ppb):<2.0

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Report Date: 6/23/2016
Report No.: 512199 - Lead Water
Project: Union Campus
Project No.: 14BR141T

Client: BRI493

Appendix to Analytical Report:

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.



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054
 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

Chain of Custody

Contact Information

Client Company: <u>Berkhoff</u>	Project Number: <u>14BRAUIT</u>
Office Address: <u>1505 Atlantic Ave</u>	Project Name: <u>Chris Glowacki</u>
City, State, Zip: <u>Manasquan Rte 08736</u>	Primary Contact: <u>Uma Campus</u>
Fax Number: _____	Office Phone: _____
Email Address: <u>Hummat Group</u>	Cell Phone: <u>848-448-3126</u>

Matrix:

Air Soil Bulk Other _____
 Water Paint Surface Dust / Wipe

Analysis Method:

<input type="checkbox"/> PCM: NIOSH 7400 <input type="checkbox"/> PCM: OSHA <input type="checkbox"/> PCM: TWA <input type="checkbox"/> Total Dust: NIOSH 0500 <input type="checkbox"/> Total Dust: NIOSH 0600 <input type="checkbox"/> AAS: Lead in Air <input checked="" type="checkbox"/> AAS: Lead in Water <input type="checkbox"/> AAS: Lead in Paint <input type="checkbox"/> AAS: Lead Dust/Wipe; <input type="checkbox"/> AAS: Lead in Soil <input type="checkbox"/> AAS: TCLP <input type="checkbox"/> AAS: Metals [Cd, Zn, Cr-circle]	<p><i>PLM Use Bulk Asbestos Sample Log</i></p> <input type="checkbox"/> PLM: Bulk Asbestos EPA 600 <input type="checkbox"/> PLM: Point Counting 198.1 <input type="checkbox"/> PLM: NOB via 198.6 (PLM only) <input type="checkbox"/> If <1% by PLM, to TEM via 198.4 2 <p><i>IAQ Use Mold Sample Log</i></p> <input type="checkbox"/> IAQ: I Bioaersol Fungal Spore Trap ₃ <input type="checkbox"/> IAQ: II Bioaersol Fungal Spore <input type="checkbox"/> IAQ: Tape, Bulk, Misc. Qualitative; <input type="checkbox"/> IAQ: Tape, Bulk, Misc. Quantitative; <input type="checkbox"/> IAQ: Other Culturable ID ₂	<input type="checkbox"/> TEM: AHERA <input type="checkbox"/> TEM: NIOSH 7402 <input type="checkbox"/> TEM: ISO 10312 <input type="checkbox"/> TEM: ISO 13794 <input type="checkbox"/> TEM: Wipe ASTM 6480 <input type="checkbox"/> TEM: Microvac ASTM D5755 <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
--	--	---

1- Requires ASTM acceptable material 2- Call to confirm TAT 3- Non-culturable 4- With Non-fungal Microscopic Exam

Special Instructions:

Turnaround Time

Preliminary Results Requested Date: 6/16/16 Verbal Email Fax

Specific date / time

10 Day 5 Day 3 Day 2 Day 1 Day* 12 Hour** 6 Hour** RUSH**

* End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***

Shipping Method

FedEx UPS USPS Other _____

Chain of Custody

Relinquished (Name/Organization): <u>Chris Glowacki</u>	Date: <u>6/16/16</u>	Time: <u>FedEx</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): <u>WY 061716</u>	Date: _____	Time: _____
Analyst (Name(s) / iATL): <u>SN C. Glowacki</u>	Date: _____	Time: <u>JUN 15 2016</u>
QA/QC Review (Name / iATL): _____	Date: <u>6/24/16</u>	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____

Sample Log

-Environmental Lead -

Client: Princeton Project: Union Campus
 Sampling Date/Time: 6/11/2016

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft ²) Volume (L)	Results ()
UC-10A	5957599	Lobby Bath Sink FD			1325	250ml	
UC-10B	5957600	↓ FL			1325		
UC-11A	5957601	Kitchen DW Sink FD			1333		
UC-11B	5957602	↓ FL			1333		
UC-12A	5957603	Faculty Sink-1 FD			1336		
UC-12B	5957604	↓ FL			1336		
UC-13A	5957605	Faculty Sink 2 FD			1338		
UC-13B	5957606	↓ FL			1338		
UC-14A	5957607	Room 103 Bath 1 FD			13:41		
UC-14B	5957608	↓ FL			13:41		
UC-15A	5957609	Room 103 Bath 2 FD			13:43		
UC-15B	5957610	↓ FL			13:43		
UC-16A	5957611	Room 104 Bath FD			13:46		
UC-16B	5957612	↓ FL			13:46	✓	

* = 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: Brinkerhoff Project: Union Campus

Sampling Date/Time: 6/11/16

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
UC-17A	5957613	Room 101 Sink FD			13:50	250ml	
UC-17B	5957614	↓ FL			13:50		
UC-18A	5957615	Room 101 Bath-1 FD Room 101 Bath			13:52		
UC-18B	5957616	Room 101 Bath-1 FL			13:52		
UC-19A	5957617	Room 102 Sink-1 FD			13:58		
UC-19B	5957618	Room 102 Sink-1 FL			13:58		
UC-20A	5957619	Womens Bath Sink-1 FD			14:05		
UC-20B	5957620	↓ FL			14:05		
UC-21A	5957621	Womens Bath Sink-2 FD			14:06		
UC-21B	5957622	↓ FL			14:06		
UC-22A	5957623	Womens Bath Sink-3 FD			14:07		
UC-22B	5957624	↓ FL			14:07		
UC-23A	5957625	Mens Bath Sink-1 FD			14:09		
UC-23B	5957626	Mens Bath Sink-1 FL			14:09	↓	

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

** = Insufficient Sample Provided to Analyze (<30mg) *** = Matrix / Substrate Interference Possible

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Sample Log

-Environmental Lead -

Client: Brinkerhoff Project: Union Campus

Sampling Date/Time: 6/11/16

Client Sample #	iATL #	Location/Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ()
UC-24A	5957627	Mens Bath Sink 2 FD			14:10	250m	
UC-24B	5957628	↓ FL			14:10		
UC-25A	5957629	Mens Bath Sink 3 FD			14:11		
UC-25B	5957630	↓ FL			14:11		
UC-26A	5957631	Mens Bath Sink 4 FD			14:12		
UC-26B	5957632	↓ FL			14:12		
UC-27A	5957633	Room 108 Sink FD			14:17		
UC-27B	5957634	↓ FL			14:17		
UC-28A	5957635	Room 110 Sink FD			14:21		
UC-28B	5957636	↓ FL			14:21		
UC-29A	5957637	Room 107 Sink FD			14:26		
UC-29B	5957638	↓ FL			14:26		
UC-30A	5957639	Room 106 Sink FD			14:30		
UC-30B	5957640	↓ FL			14:30		
UC-31	5957641	Field Blank			14:32		

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

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

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*Checked 6/22/16
1200*



International Asbestos
Testing Laboratories

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Telephone: 856-231-9449 Fax: 856-231-9818
INFO@IATL.COM

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 06/24/16)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	97
Lab Control Std	1.430	100
Matrix Spike - LBP *	0.40	100
Matrix Spike - Wipe *	0.40	92
Matrix Spike - Soil *	0.308	96
Matrix spike - Air *	0.050	96
2.5 ppm Standard	0.25	98
10.0 ppm Standard	1.0	102
40.0 ppm Standard	4.0	98

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: 6/24/16

Approved By: Frank E. Ehrenfeld, III
Frank E. Ehrenfeld, III
Laboratory Director