



September 19, 2023

Ref: 21689.12

Mr. Joseph Lenahan  
New Jersey Department of Children and Families  
50 East State Street  
Trenton, New Jersey 08608

Re: Lead and Copper in Drinking Water Testing Report  
DCF Regional School – Ocean Campus  
1141 Old Freehold Road  
Toms River, NJ 08753

Dear Mr. Lenahan:

Vanasse Hangen Brustlin Inc. (VHB) was retained to perform drinking water testing at the New Jersey Department of Children and Families (DCF) Regional Schools Ocean Campus located at 1141 Old Freehold Road, Toms River, New Jersey (subject building). VHB performed the sampling on August 24, 2023. The purpose of the testing was to determine if lead or copper may be present above the established regulatory limits in Client-identified drinking water sources within the subject building. The facility is part of the Project TEACH program. The testing was performed as a childcare licensing requirement.

## Methodology

Samples of potable water were collected from each Client-identified location where water may be used for drinking or food preparation. Sampling protocol included the following:

- › Samples were collected in the morning when the school was not occupied.
- › The sample locations were flushed for several minutes by the Client the day prior to collecting the samples.
- › The Client was instructed not to use water from the sampling locations during the overnight period or morning prior to collecting the samples.
- › Samples were collected at the Client-identified sampling locations starting with the location nearest to the water service point of entry to the building.
- › Each sampling location was inspected for evidence that the water had been used that day prior to collecting the first draw samples (i.e. dripping faucet, water residue in basin).
- › Each location was checked to verify whether water treatment (filter/bubbler) was or was not in use.
- › Two (2) samples were collected at each location. The first sample is a first-draw sample collected from the tap after the overnight resting period. The second is a flush sample collected after running water for 30 seconds.
- › Samples were collected in 250 mL bottles.
- › Bottles were labeled, and chain-of-custody completed for each sample.

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P 732.223.2225 F 732.223.3666 www.vhb.com



- › Samples were dropped off at the laboratory.
- › The laboratory accessioned the samples and added the necessary preservatives within the allowable timeframe.

Samples were delivered under chain-of-custody to IATL International, Inc., 9000 Commerce Parkway Suite B, Mt. Laurel, New Jersey 08054. IATL is a New Jersey Department of Environmental Protection (NJDEP) Certified Drinking Water Laboratory.

The regulatory limits for lead and copper are established by the United States Environmental Protection Agency (EPA) under the Safe Drinking Water Act – Lead and Copper Rule (LCR). The LCR established an action level of 0.015 mg/L (15 ppb) for lead and 1.3 mg/L (1300 ppb) for copper. The New Jersey Department of Education (NJDOE) and New Jersey Department of Health (NJDOH) have adopted these limits as well.

## Results

**Table 1 Summary of Laboratory Analysis Results – Lead (Pb)**

Sample ID	FD/FL	Location	Treatment in Use	Result (PPB)	MCL (PPB)
O1FD	FD	Kitchen	Yes	<1.00	15
02FL	FL	Kitchen	Yes	NA	15
03FD	FD	Room 104	Yes	<1.00	15
04FL	FL	Room 104	Yes	NA	15
05FD	FD	Room 106	Yes	<1.00	15
06FL	FL	Room 106	Yes	NA	15
07FD	FD	Room 107	Yes	<1.00	15
08FL	FL	Room 107	Yes	NA	15
09FD	FD	Room 110	Yes	<1.00	15
10FL	FL	Room 110	Yes	NA	15
11FL	FD	Room 108	Yes	1.10	15
12FL	FL	Room 108	Yes	NA	15
13FD	FD	Room 109	Yes	<1.00	15
14FL	FL	Room 109	Yes	NA	15

MCL – Maximum Contaminant Level

NA – Not Analyzed

FD – First Draw

FL - Flush



**Table 2 Summary of Laboratory Analysis Results – Copper (Cu)**

Sample ID	FD/FL	Location	Treatment in Use	Result (PPB)	MCL (PPB)
01FD	FD	Kitchen	Yes	<100	1300
02FL	FL	Kitchen	Yes	NA	1300
03FD	FD	Room 104	Yes	<100	1300
04FL	FL	Room 104	Yes	NA	1300
05FD	FD	Room 106	Yes	<100	1300
06FL	FL	Room 106	Yes	NA	1300
07FD	FD	Room 107	Yes	<100	1300
08FL	FL	Room 107	Yes	NA	1300
09FD	FD	Room 110	Yes	<100	1300
10FL	FL	Room 110	Yes	NA	1300
11FD	FD	Room 108	Yes	<100	1300
12FL	FL	Room 108	Yes	NA	1300
13FD	FD	Room 109	Yes	<100	1300
14FL	FL	Room 109	Yes	NA	1300

MCL – Maximum Contaminant Level

NA – Not Analyzed

FD – First Draw

FL - Flush

Laboratory analysis results of the lead and copper sampling indicate the concentrations were below the regulatory limits for lead and copper at each test location. Flush samples were not analyzed since there were no exceedances reported on the first draw samples. Certificates of laboratory analysis are attached to this report.

Mr. Joseph Lenahan  
Ref: 21689.12  
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## Limitations

Results should not be considered to reflect conditions at other tap locations in the facility. The findings in this report are reflective of the conditions at the time of the VHB inspections. The findings and recommendations are valid as of the date of the report. The conclusions are limited based on the site conditions at the time of our inspection and the enclosed analytical results.

Please feel free to contact our office at 732-223-2225 with any questions or comments regarding the sampling event.

Sincerely,

VHB

A handwritten signature in blue ink that reads "John Russo".

John Russo  
EPA Lead Inspector/Risk Assessor

A handwritten signature in blue ink that reads "Chris Glowacki".

Christopher Glowacki, CIH, CIEC  
Senior Project Manager

Attachments (1) Certificates of Laboratory Analysis

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736


Report Date: 8/31/2023  
Report No.: 688714 - Lead Water  
Project: DCF Regional School - Ocean - Drinking Water  
Project No.: 21689.12


Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663466 Client No.: 01FD	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663467 Client No.: 02FL	Location: Kitchen * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663468 Client No.: 03FD	Location: Room 104 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663469 Client No.: 04FL	Location: Room 104 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663470 Client No.: 05FD	Location: Room 106 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663471 Client No.: 06FL	Location: Room 106 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663472 Client No.: 07FD	Location: Room 107 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663473 Client No.: 08FL	Location: Room 107 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed
Lab No.: 7663474 Client No.: 09FD	Location: Room 110 * Sample acidified to pH <2.	Result(ppb): <1.00
Lab No.: 7663475 Client No.: 10FL	Location: Room 110 * Sample acidified to pH <2.	Result(ppb): Sample Not Analyzed

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

Date Received: 8/25/2023  
Date Analyzed: 08/30/2023  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736

Report Date: 8/31/2023  
Report No.: 688714 - Lead Water  
Project: DCF Regional School - Ocean - Drinking  
Water  
Project No.: 21689.12

Client: VHB973

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663476  
Client No.: 11FD

Location: Room 108  
\* Sample acidified to pH <2.

Result(ppb): 1.10

Lab No.: 7663477  
Client No.: 12FL

Location: Room 108  
\* Sample acidified to pH <2.

Result(ppb): Sample Not Analyzed

Lab No.: 7663478  
Client No.: 13FD

Location: Room 109  
\* Sample acidified to pH <2.


Result(ppb): <1.00


Lab No.: 7663479  
Client No.: 14FL

Location: Room 109  
\* Sample acidified to pH <2.

Result(ppb): Sample Not Analyzed

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

Date Received: 8/25/2023  
Date Analyzed: 08/30/2023  
Signature:   
Analyst: Mark Stewart

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736

Report Date: 8/31/2023  
Report No.: 688714 - Lead Water  
Project: DCF Regional School - Ocean - Drinking Water  
Project No.: 21689.12

Client: VHB973

## Appendix to Analytical Report:

**Customer Contact:** Chris Glowacki  
**Analysis:** AAS-GF - ASTM D3559-08D

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:** wchampion@iatl.com  
**iATL Account Representative:** Kelly Klippel  
**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](http://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

Certification:

- NYS-DOH No. 11021

- NJDEP No. 03863

### Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 40CFR 141.11B

- USEPA 200.9 Pb, AAS-GF, RL <2 ppb/sample

- USEPA SW 846-7421 - Pb(AAS-GF, RL <2 ppb/sample)

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) = 1.0 PPB

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CERTIFICATE OF ANALYSIS

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Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736

Report Date: 8/31/2023  
Report No.: 688714 - Lead Water  
Project: DCF Regional School - Ocean - Drinking  
Water  
Project No.: 21689.12

Client: VHB973

**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](mailto:customerservice@iatl.com).

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

\* ASTM D3559 (D) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.



CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736


Report Date: 8/31/2023  
Report No.: 688714 - Copper Water  
Project: DCF Regional School - Ocean - Drinking Water  
Project No.: 21689.12


Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7663466 Client No.:01FD	Location:Kitchen * Sample acidified to pH <2.	Result(ppb):<100
Lab No.:7663467 Client No.:02FL	Location:Kitchen * Sample acidified to pH <2.	Result(ppb):Sample Not Analyzed
Lab No.:7663468 Client No.:03FD	Location:Room 104 * Sample acidified to pH <2.	Result(ppb):<100
Lab No.:7663469 Client No.:04FL	Location:Room 104 * Sample acidified to pH <2.	Result(ppb):Sample Not Analyzed
Lab No.:7663470 Client No.:05FD	Location:Room 106 * Sample acidified to pH <2.	Result(ppb):<100
Lab No.:7663471 Client No.:06FL	Location:Room 106 * Sample acidified to pH <2.	Result(ppb):Sample Not Analyzed
Lab No.:7663472 Client No.:07FD	Location:Room 107 * Sample acidified to pH <2.	Result(ppb):<100
Lab No.:7663473 Client No.:08FL	Location:Room 107 * Sample acidified to pH <2.	Result(ppb):Sample Not Analyzed
Lab No.:7663474 Client No.:09FD	Location:Room 110 * Sample acidified to pH <2.	Result(ppb):<100
Lab No.:7663475 Client No.:10FL	Location:Room 110 * Sample acidified to pH <2.	Result(ppb):Sample Not Analyzed

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

Date Received: 8/25/2023  
Date Analyzed: 08/31/2023  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736

Report Date: 8/31/2023  
Report No.: 688714 - Copper Water  
Project: DCF Regional School - Ocean - Drinking Water  
Project No.: 21689.12

Client: VHB973

COPPER WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 7663476  
Client No.: 11FD

Location: Room 108  
\* Sample acidified to pH <2.

Result(ppb): <100

Lab No.: 7663477  
Client No.: 12FL

Location: Room 108  
\* Sample acidified to pH <2.

Result(ppb): Sample Not Analyzed

Lab No.: 7663478  
Client No.: 13FD

Location: Room 109  
\* Sample acidified to pH <2.


Result(ppb): <100


Lab No.: 7663479  
Client No.: 14FL

Location: Room 109  
\* Sample acidified to pH <2.

Result(ppb): Sample Not Analyzed

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

Date Received: 8/25/2023  
Date Analyzed: 08/31/2023  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736

Report Date: 8/31/2023  
Report No.: 688714 - Copper Water  
Project: DCF Regional School - Ocean - Drinking Water  
Project No.: 21689.12

Client: VHB973

## Appendix to Analytical Report:

**Customer Contact:** Chris Glowacki  
**Analysis:** AAS-FL- ASTM D1688-12(A)

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:** wchampion@iatl.com  
**iATL Account Representative:** Kelly Klippel  
**Sample Login Notes:** See Batch Sheet Attached  
**Sample Matrix:** Water  
**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

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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.

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### Information Pertinent to this Report:

Analysis by AAS Graphite Furnace:

- ASTM D1688-12(A)

Accreditations:

- NYS-DOH No. 11021

- NJDEP No. 03863

### Note: These methods are analytically equivalent to iATL's accredited method;

- USEPA 200.9 Cu, AAS-FL, RL <40 ppb/sample

Regulatory limit for copper in drinking water is 1300 parts per billion (or 1.3 ppm) 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 = 20 PPB Reporting Limit (RL) = 40 PPB

### Disclaimers / Qualifiers:

Dated : 8/31/2023 8:21:14

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CERTIFICATE OF ANALYSIS

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Client: Vanasse Hangen Brustlin, Inc.  
1805 Atlantic Avenue  
Manasquan NJ 08736

Report Date: 8/31/2023  
Report No.: 688714 - Copper Water  
Project: DCF Regional School - Ocean - Drinking  
Water  
Project No.: 21689.12

Client: VHB973

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](mailto:customerservice@iatl.com).

Matrix spiking is performed on each client batch to determine if interferences could impact results. When spike recoveries fall out of acceptable range matrix interference is suspected and samples are diluted until acceptable spike recovery can be achieved. Reporting limits will increase by the same degree as the dilution required.

Note: Sample dilution required due to matrix interference.

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

\* ASTM D1668-12(A) calls for the addition of acid at the time of sampling. Unless so noted on the chain of custody by the client iATL acidifies samples to a pH of <2 at least 24 hours prior to analysis.

## Chain of Custody

– Environmental Lead –

<b>Contact Information</b>	
<b>Client Company:</b> <u>VHB</u>	<b>Project Number:</b> <u>2168a.12</u>
<b>Office Address:</b> <u>1805 Atlantic Ave</u>	<b>Project Name:</b> <u>DCF Regional School - Ocean - Drinking Water</u>
<b>City, State, Zip:</b> <u>Manasquan, NJ 08736</u>	<b>Primary Contact:</b> <u>John Russo</u>
<b>Fax Number:</b> _____	<b>Office Phone:</b> <u>732-223-2225</u>
<b>Email Address:</b> <u>jrusso@vhb.com</u>	<b>Cell Phone:</b> _____

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, US EPA 200.9
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311
- Other NJ Lead + Copper

**Special Instructions:**  
FD=First Draw, FL=Flush, Flush Samples only to be analyzed if exceedance of limits on First Draw Sample

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_

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\*\*\*

**Chain of Custody**

Relinquished (Name/Organization): <u>John Russo</u>	Date: <u>8/25/23</u> Time: <u>RECEIVED</u>
Received (Name / iATL): _____	Date: _____ Time: _____
Sample Login (Name / iATL): _____	Date: _____ Time: _____
Analysis(Name(s) / iATL): <u>C-8/31/23</u>	Date: _____ Time: _____
QA/QC Review (Name / iATL): _____	Date: _____ Time: <u>AUG 25 2023</u>
Archived / Released: _____	Date: _____ Time: _____
QA/QC InterLAB Use: _____	Date: _____ Time: _____

## Sample Log

-Environmental Lead-

Client: \_\_\_\_\_ Project: DCF Drinking Water 21689.12

Sampling Date/Time: 8/24/13

Client Sample #	iATL #	Location/Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
01 FD	7663486	Kitchen		8/24/13	7:05	250mL	
02 FL	7663487	↓			7:05	↓	
03 FD	7663488	Room 104			7:07		
04 FL	7663489	↓			7:07		
05 FD	7663490	Room 106			7:10		
06 FL	7663492	↓			7:10		
07 FD	7663492	Room 107			7:11		
08 FL	7663493	↓			7:11		
09 FD	7663494	Room 110			7:13		
10 FL	7663495	↓			7:13		
11 FD	7663496	Room 108			7:14		
12 FL	7663497	↓			7:14		
13 FD	7663498	Room 109			7:16		
14 FL	7663499	↓			7:16		
Acidified MS	8/29/13 2230	→					

\* = 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.