Hopatcong Borough Schools

P.O. Box 1029 • Hopatcong, New Jersey 07843 • (973) 770-8840 • FAX (973) 398-2590
Matthew Geary, *Facilities Supervisor*

June 8th, 2022

Hopatcong Borough Schools
Hopatcong High School
2A Windsor Avenue
Hopatcong, NJ 07843

Dear Hopatcong High School Community,

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, Hopatcong Borough Schools tested our schools' drinking water for lead.

In accordance with the Department of Education regulations, Hopatcong High School will implement immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]). This includes turning off the outlet unless it is determined the location must remain on for non-drinking purposes. In these cases, a "DO NOT DRINK – SAFE FOR HANDWASHING ONLY" sign will be posted.

Results of our Testing

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within Hopatcong Borough Schools. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 36 samples taken, all but 3 tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).

The table below identifies the drinking water outlet(s) that tested above the 15 µg/l for lead, the actual lead level, and what temporary remedial action Hopatcong Borough Schools has taken to reduce the levels of lead at these locations.

Sample Location	**First Draw Result in µg/l (ppb)**	**Remedial Action**
Kitchen Dish Wash Sink ID# HHS-1-S-04	23.4	Outlet Immediately Taken Out of Service
Nurse Eyewash IS# HHS-1-EW-01	25.0	Outlet Not Utilized for Drinking Water Purposes. Marked as "For Flushing Eyes **Only**."
PE-7 Comp, Left Sink ID#HHS-1-S-16	36.6	Outlet Immediately Taken Out of Service

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

For More Information

A copy of the test results is available in our central office for inspection by the public, including students, teachers, other school personnel, and parents, and can be viewed between the hours of 8:30 a.m. and 4:00 p.m. and are also available on our website at https://www.hopatcongschools.org/p/facilities/. For more information about water quality in our schools, contact Matthew Geary at the Facilities Department at 973-770-8840 or email at mgeary@hopatcongschools.org.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at **www.epa.gov/lead**, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,
Matthew Geary
Facilities Supervisor

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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

Chain of Custody

– Environmental Lead –

Contact Information

Client Company:	Garden State Environmental, Inc.	**Project Number:**	8402
Office Address:	555 South Broad Street	**Project Name:**	Hopatcong High School
City, State, Zip:	Glen Rock, NJ 07452	**Primary Contact:**	Christian Valdes
Fax Number:	201-652-0612	**Office Phone:**	201-652-1119
Email Address:	labreports@gseconsultants.com	**Cell Phone:**	

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 _____

Special Instructions:

_____

_____

Turnaround Time

Preliminary Results Requested Date: _____ (Specific date / time) ☐ Verbal ☑ Email ☐ Fax

☐ 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

RECEIVED

Relinquished (Name/Organization):	Christian Valdes	Date: 4/28/22	Time: 1:30 pm
Received (Name / iATL):		Date:	Time:
Sample Login (Name / iATL):		Date:	Time:
Analysis(Name(s) / iATL):	MS / MAY	Date: 2022 5/10/22	Time:
QA/QC Review (Name / iATL):	[illegible]	Date:	Time:
Archived / Released: _____	QA/QC InterLAB Use: _____	Date:	Time:

iATL - By

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

Sample Log

–Environmental Lead –

Client: _____ Project: Hopatcong High School

Sampling Date/Time: 4/23/22 8:00 am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HHS-1-H-01A	7421339	Room A-32	–	8:15	initial	—	
HHS-1-S-01A	7421340	Kitchen Island by Oven	–	8:20	initial	—	
HHS-1-S-02A	7421341	Kitchen Comp Left	—	8:25	initial	—	
HHS-1-S-03A	7421342	Kitchen Comp Right	—	8:29	initial	—	
HHS-1-ST-01A	7421343	Kitchen Steam Kettle	—	8:33	initial	—	
HHS-1-H-02A	7421344	Dishwash Hose	—	8:37	initial	—	
HHS-1-S-04A	7421345	Dishwash Sink	—	8:41	initial	—	
HHS-1-S-05A	7421346	Kitchen Island by Freezer	—	8:47	initial	—	
HHS-1-EW-01A	7421347	Nurse Eyewash	—	8:52	initial	—	
HHS-1-S-18A	7421348	Nurse Sink	—	8:56	initial	—	
HHS-1-S-14A	7421349	Room A-19	—	9:03	initial	—	
HHS-1-WC-08A	7421350	Cafeteria	—	9:06	initial	—	
HHS-1-BF-05A	7421351	Cafeteria	—	9:08	initial	—	
HHS-1-WC-01A	7421352	Hall by A-20	—	9:16	initial	—	
HHS-1-BF-01A	7421353	Hall by A-20	—		initial	—	

* = *Insufficient Sample Provided to Perform QC Reanalysis (< 200mg)*
** = *Insufficient Sample Provided to Analyze (< 50mg)* *** = *Matrix / Substrate Interference Possible*
FB = Method Requires the submittal of blanks(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.

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Sample Log

–Environmental Lead –

Client: _____ Project: Hopatcong High School

Sampling Date/Time: 4/23/22 8:00 am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start / End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HHS-1-S-06A	7421354	Room A-14	—	9:22	initial	—	
HHS-1-S-07A	7421355	A-12 Right Wall	—	9:27	initial	—	
HHS-1-S-08A	7421356	A-12 Back Wall R	—	9:29	initial	—	
HHS-1-S-09A	7421357	A12 Middle Right	—	9:32	initial	—	
HHS-1-S-10A	7421358	A-12 Middle Left	—	9:36	initial	—	
HHS-1-S-11A	7421359	A-12 Back Wall L	—	9:39	initial	—	
HHS-1-S-12A	7421360	A-12 Left Wall	—	9:43	initial	—	
HHS-1-S-13A	7421361	Room A-10	—	9:46	initial	—	
HHS-1-WC-02A	7421362	Hall by C-4	—	9:48	initial	—	
HHS-1-BF-02A	7421363	Hall by C-4	—	9:54	initial	—	
HHS-1-WC-03A	7421364	Hall by PE-3	—	9:59	initial	—	
HHS-1-BF-03A	7421365	Hall by PE-3	—	10:01	initial	—	
HHS-1-S-15A	7421366	PE-7 Right Comp	—	10:06	initial	—	
HHS-1-S-16A	7421367	PE-7 Left Comp	—	10:10	initial	—	
HHS-1-WC-04A	7421368	Room PE-4B	—	10:16	initial	—	

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Sample Log

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Client: _____ Project: Hopatcong High School

Sampling Date/Time: 4/23/22 8:00 am

Client Sample #	iATL #	Location/ Description	Flow Rate	Start End	Sampling time (min)	Area (ft2) Volume (L)	Results ( )
HHS-1-1M-01	7421369	Room PE-10B	—	10:20	initial	—	
HHS-1-S-17A	7421370	Room PE-10	—	p:22	initial	—	
HHS-1-WC-05A	7421371	Hall by Aud.-3	—	10:33	initial	—	
HHS-1-BF-04A	7421372	Hall by Aud-3	—	10:36	initial	—	
HHS-1-WC-06A	7421373	Hall by B16 A Left	—	10:42	initial	—	
HHS-1-WC-07A	7421374	Hall by B16A Right	—	10:44	initial	—	
HHS-4-23-FBA	7421375	—	—	—	—	—	
	Acidified w/						
	5/7/22 1:00						

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ASBESTOS TESTING LABORATORIES

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

CERTIFICATE OF ANALYSIS

Client: Garden State Environmental, Inc.
555 S Broad St. Ste. K
Glen Rock NJ 07452

Client: GAR373

Report Date: 5/10/2022
Report No.: 660316 - Lead Water
Project: Hopatcong, High School
Project No.: 8402

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7421339 **Client No.:**HHS-1-H-01A	**Location:**Room A32 * Sample acidified to pH <2.	**Result(ppb):**1.20
Lab No.:7421340 **Client No.:**HHS-1-S-01A	**Location:**Kitchen Island By Oven * Sample acidified to pH <2.	**Result(ppb):**4.20
Lab No.:7421341 **Client No.:**HHS-1-S-02A	**Location:**Kitchen Comp Left * Sample acidified to pH <2.	**Result(ppb):**3.70
Lab No.:7421342 **Client No.:**HHS-1-S-03A	**Location:**Kitchen Comp Right * Sample acidified to pH <2.	**Result(ppb):**1.60
Lab No.:7421343 **Client No.:**HHS-1-ST-01A	**Location:**Kitchen Steam Kettle * Sample acidified to pH <2.	**Result(ppb):**160
Lab No.:7421344 **Client No.:**HHS-1-H-02A	**Location:**Dishwash Hose * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421345 **Client No.:**HHS-1-S-04A	**Location:**Dishwash Sink * Sample acidified to pH <2.	**Result(ppb):**23.4
Lab No.:7421346 **Client No.:**HHS-1-S-05A	**Location:**Kitchen Island By Freezer * Sample acidified to pH <2.	**Result(ppb):**1.30
Lab No.:7421347 **Client No.:**HHS-1-EW-01A	**Location:**Nurse Eyewash * Sample acidified to pH <2.	**Result(ppb):**25.0
Lab No.:7421348 **Client No.:**HHS-1-S-18A	**Location:**Nurse Sink * Sample acidified to pH <2.	**Result(ppb):**7.90

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

Date Received: 5/4/2022
Date Analyzed: 05/10/2022
Signature: Mark Stewart
Analyst: Mark Stewart

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

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Client: GAR373

Report Date: 5/10/2022
Report No.: 660316 - Lead Water
Project: Hopatcong, High School
Project No.: 8402

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7421349 **Client No.:**HHS-1-S-14A	**Location:**Room A-19 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421350 **Client No.:**HHS-1-WC-08A	**Location:**Cafeteria * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421351 **Client No.:**HHS-1-BF-05A	**Location:**Cafeteria * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421352 **Client No.:**HHS-1-WC-01A	**Location:**Hall By A-20 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421353 **Client No.:**HHS-1-BF-01A	**Location:**Hall By A-20 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421354 **Client No.:**HHS-1-S-06A	**Location:**Room A-14 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421355 **Client No.:**HHS-1-S-07A	**Location:**A-12 Right Wall * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421356 **Client No.:**HHS-1-S-08A	**Location:**A-12 Back Wall R * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421357 **Client No.:**HHS-1-S-09A	**Location:**A-12 Middle Right * Sample acidified to pH <2.	**Result(ppb):**1.30
Lab No.:7421358 **Client No.:**HHS-1-S-10A	**Location:**A-12 Middle Left * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/10/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Report Date: 5/10/2022
Report No.: 660316 - Lead Water
Project: Hopatcong, High School
Project No.: 8402

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7421359 **Client No.:**HHS-1-S-11A	**Location:**A-12 Back Wall L * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421360 **Client No.:**HHS-1-S-12A	**Location:**A-12 Left Wall * Sample acidified to pH <2.	**Result(ppb):**2.80
Lab No.:7421361 **Client No.:**HHS-1-S-13A	**Location:**Room A-10 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421362 **Client No.:**HHS-1-WC-02A	**Location:**Hall By C-4 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421363 **Client No.:**HHS-1-BF-02A	**Location:**Hall By C-4 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421364 **Client No.:**HHS-1-WC-03A	**Location:**Hall By PE-3 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421365 **Client No.:**HHS-1-BF-03A	**Location:**Hall By PE-3 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421366 **Client No.:**HHS-1-S-15A	**Location:**PE-7 Right Comp * Sample acidified to pH <2.	**Result(ppb):**14.7
Lab No.:7421367 **Client No.:**HHS-1-S-16A	**Location:**PE-7 Left Comp * Sample acidified to pH <2.	**Result(ppb):**36.6
Lab No.:7421368 **Client No.:**HHS-1-WC-04A	**Location:**Room PE-4B * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/10/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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Client: GAR373

Report Date: 5/10/2022
Report No.: 660316 - Lead Water
Project: Hopatcong, High School
Project No.: 8402

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7421369 **Client No.:**HHS-1-IM-01	**Location:**Room PE-10B * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421370 **Client No.:**HHS-1-S-17A	**Location:**Room PE-10 * Sample acidified to pH <2.	**Result(ppb):**5.10
Lab No.:7421371 **Client No.:**HHS-1-WC-05A	**Location:**Hall By Aud-3 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421372 **Client No.:**HHS-1-BF-04A	**Location:**Hall By Aud-3 * Sample acidified to pH <2.	**Result(ppb):**<1.00
Lab No.:7421373 **Client No.:**HHS-1-WC-06A	**Location:**Hall By B16A Left * Sample acidified to pH <2.	**Result(ppb):**5.00
Lab No.:7421374 **Client No.:**HHS-1-WC-07A	**Location:**Hall By B16A Right * Sample acidified to pH <2.	**Result(ppb):**1.80
Lab No.:7421375 **Client No.:**HHS-4-23-FBA	**Location:** * Sample acidified to pH <2.	**Result(ppb):**<1.00

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

Date Received: 5/4/2022
Date Analyzed: 05/10/2022
Signature:
Analyst: Mark Stewart

Approved By:
Frank E. Ehrenfeld, III
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	555 S Broad St. Ste. K	Report No.:	660316 - Lead Water
	Glen Rock NJ 07452	Project:	Hopatcong, High School
		Project No.:	8402
Client:	GAR373		

Appendix to Analytical Report:

Customer Contact: Send ALL Lab Reports
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 OfficeManager: ?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 and ir 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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	555 S Broad St. Ste. K	Report No.:	660316 - Lead Water
	Glen Rock NJ 07452	Project:	Hopatcong, High School
		Project No.:	8402
Client:	GAR373		

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.**

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.