

CERTIFICATE OF ANALYSIS

Client: TTI Environmental Inc.
1253 North Church St.
Moorestown NJ 08057

Report Date: 3/15/2017
Report No.: 531822 - Lead Water
Project: Roosevelt Public School; 2 School Lane, Roosevelt, NJ
Project No.: 17-137

Client: TTI379

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6174407 **Location:**Kindergarten Room 1-Sink Faucet **Result(ppb):**<2.00
Client No.:1 RPS-SF-R1

Lab No.:6174408 **Location:**Hall At Faculty Room 25 (Left)-
Drinking Water Bubbler **Result(ppb):**<2.00
Client No.:2 RPS-DW-H25L

Lab No.:6174409 **Location:**Hall At Faculty Room 25 (Right)-
Drinking Water Bubbler **Result(ppb):**<2.00
Client No.:3 RPS-DW-H25R

Lab No.:6174410 **Location:**Nurse Office-Sink Bubbler **Result(ppb):**29.6
Client No.:4 RPS-SB-NURSE

Lab No.:6174411 **Location:**Nurse Office-Sink Faucet **Result(ppb):**<2.00
Client No.:5 RPS-SF-NURSE


Lab No.:6174412 **Location:**Room 26-Art (Left)-Sink Bubbler **Result(ppb):**2.20
Client No.:6 RPS-SB-R26L
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.


Lab No.:6174413 **Location:**Room 26-Art (Right)-Sink Bubbler **Result(ppb):**<2.00
Client No.:7 RPS-SB-R26R

Lab No.:6174414 **Location:**Hall At Room 18-Water Cooler **Result(ppb):**<2.00
Client No.:8 RPS-WC-H18

Lab No.:6174415 **Location:**Room 18-Sink Bubbler **Result(ppb):**<2.00
Client No.:9 RPS-SB-R18

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

Date Received: 3/13/2017
Date Analyzed: 03/15/2017
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6174416
Client No.:10 RPS-SF-R18RR

Location:Room 18-Bathroom-Sink Faucet

Result(ppb):<2.00

Lab No.:6174417
Client No.:Blank

Location:Blank

Result(ppb):<2.00

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

Date Received: 3/13/2017

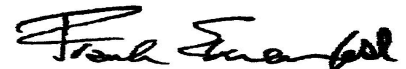
Date Analyzed: 03/15/2017

Signature:



Analyst: Mark Stewart

Approved By:



Frank E. Ehrenfeld, III

Laboratory Director

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Roosevelt, NJ
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Appendix to Analytical Report:

Customer Contact: TTI Reports

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: Shirley Clark

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

– Environmental Lead –

Contact Information	
Client Company: <u>TTI Environmental, Inc.</u>	Project Number: <u>17-137</u>
Office Address: <u>1253 North Church Street</u>	Project Name: <u>Roosevelt School District</u>
City, State, Zip: <u>Moorestown, NJ 08057</u>	Primary Contact: <u>Jim Guilardi</u>
Fax Number: <u>856-840-8815</u>	Office Phone: <u>856-840-880</u>
Email Address: <u>Jimg@ttienv.com</u>	Cell Phone: <u>609-314-1683</u>

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, USEPA 40CFR 141.11B, 2010
 Other Metals (Cd, Zn, Cr) by AAS
 Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311
 Other Lead in Water EPA 200.9

Special Instructions:
PO #022210
Roosevelt Public School (RPS)

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>TTI Env. / A. Culliton</u>	Date: <u>3-13-17</u>	Time: _____
Received (Name / iATL): <u>Chris Dean</u>	Date: <u>3-13-17</u>	Time: <u>9:15</u>
Sample Login (Name / iATL): <u>RJ 3-13-17</u>	Date: _____	Time: _____
Analysis(Name(s) / iATL): <u>MS</u>	Date: <u>3/15/17</u>	Time: _____
QA/QC Review (Name / iATL): <u>RJ 3/20/17</u>	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____
		Time: _____

DAILY QUALITY CONTROL DATA

LEAD SAMPLE ANALYSIS

(DATE: 03 / 20 / 17)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	96
Lab Control Std	1.430	94
Matrix Spike - LBP *	0.44	103
Matrix Spike - Wipe *	0.37	91
Matrix Spike - Soil *	0.348	85
Matrix spike - Air *	0.050	96
2.5 ppm Standard	0.25	98
10.0 ppm Standard	1.0	99
40.0 ppm Standard	4.0	96

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: 3/20/17

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