

## CERTIFICATE OF ANALYSIS

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

**Report Date:** 4/6/2017  
**Report No.:** 533415 - Lead Water  
**Project:** Metuchen BOE; Moss School, 16 Simpson Place  
**Project No.:** 16-1614

**Client:** TTI379

### LEAD WATER SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6192561                      **Location:** Teacher's Room-Sink Faucet                      **Result(ppb):** <2.00  
**Client No.:** 1 MS-SF-FACULTY

**Lab No.:** 6192562                      **Location:** Gym Hall-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 2 MS-WC-GYM

**Lab No.:** 6192563                      **Location:** Room 220-Drinking Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 3 MS-DW-R220

**Lab No.:** 6192564                      **Location:** Room 218-Drinking Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 4 MS-DW-R218

**Lab No.:** 6192565                      **Location:** Room 221-Drinking Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 5 MS-DW-R221

**Lab No.:** 6192566                      **Location:** Room 217-Drinking Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 6 MS-DW-R217


**Lab No.:** 6192567                      **Location:** Room 215-Drinking Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 7 MS-DW-R215


**Lab No.:** 6192568                      **Location:** 2nd Floor Hall At 202 (Right)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 8 MS-WC-H202R

**Lab No.:** 6192569                      **Location:** 2nd Floor Hall At 202 (Left)-Water Cooler                      **Result(ppb):** <2.00  
**Client No.:** 9 MS-WC-H202L

**Lab No.:** 6192570                      **Location:** Nurse's Office-Sink Faucet                      **Result(ppb):** <2.00  
**Client No.:** 10 MS-SF-NURSEO

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

**Date Received:** 4/3/2017  
**Date Analyzed:** 04/06/2017  
**Signature:**   
**Analyst:** Chad Shaffer

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

## CERTIFICATE OF ANALYSIS

<b>Client:</b> TTI Environmental Inc. 1253 North Church St. Moorestown NJ 08057  <b>Client:</b> TTI379	<b>Report Date:</b> 4/6/2017 <b>Report No.:</b> 533415 - Lead Water <b>Project:</b> Metuchen BOE; Moss School, 16 Simpson Place <b>Project No.:</b> 16-1614
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### LEAD WATER SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6192571	<b>Location:</b> Nurse's Exam Room-Sink Faucet	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 11 MS-SF-EXAM		

<b>Lab No.:</b> 6192572	<b>Location:</b> Room 203-Drinking Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 12 MS-DW-R203		


<b>Lab No.:</b> 6192573	<b>Location:</b> Room 202-Drinking Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 13 MS-DW-R202		


<b>Lab No.:</b> 6192574	<b>Location:</b> Room 200-Drinking Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 14 MS-DW-R200		

<b>Lab No.:</b> 6192575	<b>Location:</b>	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> Blank		

<b>Lab No.:</b> 6192576	<b>Location:</b> Hall At 218-Water Cooler	<b>Result(ppb):</b> <2.00
<b>Client No.:</b> 4A MS-WC-H218		

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

<b>Date Received:</b>	<u>4/3/2017</u>
<b>Date Analyzed:</b>	<u>04/06/2017</u>
<b>Signature:</b>	
<b>Analyst:</b>	<u>Chad Shaffer</u>

<b>Approved By:</b>	
	<u>Frank E. Ehrenfeld, III</u>
	Laboratory Director

## CERTIFICATE OF ANALYSIS

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

**Report Date:** 4/6/2017  
**Report No.:** 533415 - Lead Water  
**Project:** Metuchen BOE; Moss School, 16 Simpson Place  
**Project No.:** 16-1614

**Client:** TTI379

### 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](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, 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](mailto: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

– Environmental Lead –

<b>Contact Information</b>	
<b>Client Company:</b> <u>TTI Environmental, Inc.</u>	<b>Project Number:</b> <u>16-1614</u>
<b>Office Address:</b> <u>1253 North Church Street</u>	<b>Project Name:</b> <u>Metuchen BOE</u>
<b>City, State, Zip:</b> <u>Moorestown, NJ 08057</u>	<b>Primary Contact:</b> <u>Jim Guillard</u>
<b>Fax Number:</b> <u>856-840-8815</u>	<b>Office Phone:</b> <u>856-840-880</u>
<b>Email Address:</b> <u>Jimg@ttienv.com</u>	<b>Cell Phone:</b> <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 # 072380 ESCNJ Co-Op

Moss School

(MS)

EMAILED

APR 03 2017

**Turnaround Time**

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

**Chain of Custody**

Relinquished (Name/Organization): _____	Date: _____	Time: _____	RECEIVED
Received (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): <u>RV 4.3.17</u>	Date: _____	Time: _____	
Analysis(Name(s) / iATL): <u>4/17/17</u>	Date: _____	Time: _____	
QA/QC Review (Name / iATL): _____	Date: _____	Time: _____	
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____	Time: _____	

APR - 3 2017

iATL - BY RV



1253 North Church Street, Moorestown, NJ 08057  
856-840-8800 Fax 856-840-8815

### LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

PROJECT #: 16-1614		CLIENT: Metuchen BOE		FACILITY: Moss School		
PO #: 022380		SAMPLER(S): A. Culliton		ADDRESS: 16 Simpson Place		
DATE: 4/12/2017		SAMPLE TYPE: Initial Flush (30sec/15min)		VOLUME		
Sample ID	Location/Description	Time	Sample Type: Initial Flush (30sec/15min)	Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc...
1	MS-SF-FACULTY	Teacher's Room	Initial	Sink Faucet	250ml	6192561
2	MS-WC-GYM	Gym Hall	Initial	Water Cooler	250ml	6192562
3	MS-DW-R220	Room 220	Initial	Drinking Water Bubbler	250ml	6192563
4	MS-DW-R218	Room 218	Initial	Drinking Water Bubbler	250ml	6192564
5	MS-DW-R221	Room 221	Initial	Drinking Water Bubbler	250ml	6192565
6	MS-DW-R217	Room 217	Initial	Drinking Water Bubbler	250ml	6192566
7	MS-DW-R215	Room 215	Initial	Drinking Water Bubbler	250ml	6192567
8	MS-WC-H202R	2nd Floor Hall at 202 (Right)	Initial	Water Cooler	250ml	6192568
9	MS-WC-H202L	2nd Floor Hall at 202 (Left)	Initial	Water Cooler	250ml	6192569
10	MS-SF-NURSEO	Nurses Office	Initial	Sink Faucet	250ml	6192570
11	MS-SF-EXAM	Nurses Exam Room	Initial	Sink Faucet	250ml	6192571
12	MS-DW-R203	Room 203	Initial	Drinking Water Bubbler	250ml	6192572
13	MS-DW-R202	Room 202	Initial	Drinking Water Bubbler	250ml	6192573
14	MS-DW-R200	Room 200	Initial	Drinking Water Bubbler	250ml	6192574
	BLANK	-	-	-	250ml	6192575
4A	MS-WC-H218	Hall at 218	Initial	Water Cooler	250ml	Added During Sampling Event
					250ml	6192576

ACIDT  
RV 4-11-17