

CERTIFICATE OF ANALYSIS

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

Report Date: 8/16/2017
Report No.: 543786 - Lead Water
Project: Indian Mills Memorial Middle School
Project No.: 17-717

Client: TTI379

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6313436 **Location:**Kitchen-Ice Machine **Result(ppb):**<2.00
Client No.:1-IMMS-IM-K

Lab No.:6313437 **Location:**Kitchen-By Ice Machine-Faucet Outlet **Result(ppb):**12.7
Client No.:2-IMMS-FO-KIM

Lab No.:6313438 **Location:**Kitchen-By Kettle/Steamer-Faucet Outlet **Result(ppb):**5.00
Client No.:3-IMMS-FO-KST

Lab No.:6313439 **Location:**Kitchen-3 Tub (Right)-Sink Faucet w/Sprayer **Result(ppb):**6.00
Client No.:5-IMMS-SFS-K3T-R

Lab No.:6313440 **Location:**Kitchen-3 Tub (Left)-Sink Faucet **Result(ppb):**21.2
Client No.:6-IMMS-SFS-K3T-L

Lab No.:6313441 **Location:**Kitchen-2 Tub-Sink Faucet **Result(ppb):**<2.00
Client No.:7-IMMS-SF-K2T

Lab No.:6313442 **Location:**Kitchen-1 Tub-Sink Faucet **Result(ppb):**14.2
Client No.:8-IMMS-SF-K1T


Lab No.:6313443 **Location:**Gym-Girl's Locker Side (Left)-Water Cooler **Result(ppb):**<2.00
Client No.:9-IMMS-WC-GIRL-L

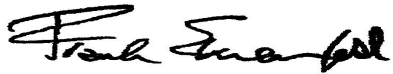
Lab No.:6313444 **Location:**Gym-Girl's Locker Side (Right)-Water Cooler **Result(ppb):**<2.00
Client No.:10-IMMS-WC-GIRL-R

Lab No.:6313445 **Location:**Hall At Gym (Left Side-Left)-Water Cooler **Result(ppb):**<2.00
Client No.:11-IMMS-WC-HGYM-LL

Lab No.:6313446 **Location:**Hall At Gym (Left Side-Right)-Water Cooler **Result(ppb):**<2.00
Client No.:12-IMMS-WC-HGYM-LR

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

Date Received: 8/11/2017
Date Analyzed: 08/16/2017
Signature: 
Analyst: Mark Stewart

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director

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Lab No.: 6313447 **Location:** Hall At Gym (Right Side-Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 13-IMMS-WC-HGYM-RL

Lab No.: 6313448 **Location:** Hall At Gym (Right Side-Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 14-IMMS-WC-HGYM-RR

Lab No.: 6313449 **Location:** Gym-Boy's Locker Side (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 15-IMMS-WC-BOY-L

Lab No.: 6313450 **Location:** Gym-Boy's Locker Side (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 16-IMMS-WC-BOY-R

Lab No.: 6313451 **Location:** Hall At Library-100 Wing (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 17-IMMS-WC-H100-L

Lab No.: 6313452 **Location:** Hall At Library-100 Wing (Center)-Water Cooler **Result(ppb):** <2.00
Client No.: 18-IMMS-WC-H100-C

Lab No.: 6313453 **Location:** Hall At Library-100 Wing (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 19-IMMS-WC-H100-R


Lab No.: 6313454 **Location:** Hall At Library-100 Wing Restrooms (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 20-IMMS-WC-H100RR-L

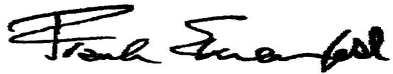
Lab No.: 6313455 **Location:** Hall At Library-100 Wing Restrooms (Center)-Water Cooler **Result(ppb):** <2.00
Client No.: 21-IMMS-WC-H100RR-C

Lab No.: 6313456 **Location:** Hall At Library-100 Wing Restrooms (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 22-IMMS-WC-H100RR-R

Lab No.: 6313457 **Location:** 101 Prep Room-Sink Faucet **Result(ppb):** 10.1
Client No.: 23-IMMS-SF-101PR

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Lab No.:6313458 **Location:**Nurse's Office-Sink Faucet **Result(ppb):**6.80
Client No.:24-IMMS-SF-NURSE1

Lab No.:6313459 **Location:**Nurse's Office By Restroom-Sink Faucet **Result(ppb):**8.40
Client No.:25-IMMS-SF-NURSE2

Lab No.:6313460 **Location:**BOE Office Kitchenette-Sink Faucet **Result(ppb):**3.20
Client No.:26-IMMS-SF-BOE

Lab No.:6313461 **Location:**Faculty-Sink Faucet **Result(ppb):**<2.00
Client No.:27-IMMS-SF-FACULTY

Lab No.:6313462 **Location:**Hall At Library-200 Wing (Left)-Water Cooler **Result(ppb):**<2.00
Client No.:28-IMMS-WC-H200-L

Lab No.:6313463 **Location:**Hall At Library-200 Wing (Center)-Water Cooler **Result(ppb):**<2.00
Client No.:29-IMMS-WC-H200-C

Lab No.:6313464 **Location:**Hall At Library-200 Wing (Right)-Water Cooler **Result(ppb):**<2.00
Client No.:30-IMMS-WC-H200-R


Lab No.:6313465 **Location:**Hall At 200 Wing Restrooms (Left)-Water Cooler **Result(ppb):**<2.00
Client No.:31-IMMS-WC-H200RR-L

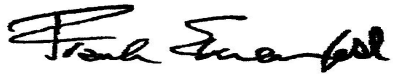
Lab No.:6313466 **Location:**Hall At 200 Wing Restrooms (Center)-Water Cooler **Result(ppb):**<2.00
Client No.:32-IMMS-WC-H200RR-C

Lab No.:6313467 **Location:**Hall At 200 Wing Restrooms (Right)-Water Cooler **Result(ppb):**<2.00
Client No.:33-IMMS-WC-H200RR-R

Lab No.:6313468 **Location:**203-Sink Faucet **Result(ppb):**31.2
Client No.:34-IMMS-SF-203

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

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:6313469

Location:203 Prep Room-Sink Faucet

Result(ppb):7.40

Client No.:35-IMMS-SF-203PR

Lab No.:6313470

Location:Blank

Result(ppb):<2.00

Client No.:Blank

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

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Signature:



Analyst:

Mark Stewart

Approved By:



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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.

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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

– Environmental Lead –

<u>Contact Information</u>	
Client Company: <u>TTI Environmental, Inc.</u>	Project Number: <u>17-717</u>
Office Address: <u>1253 North Church Street</u>	Project Name: <u>Indian Mills Middle School</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>856-840-8800</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# 023264 old Pricing

Indian Mills Memorial Middle School (IMMS)

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): <u>A. Culliton / TTI ENV.</u>	Date: <u>8-11-17</u>	Time: <u>RECEIVED</u>
Received (Name / iATL): _____	Date: _____	Time: _____
Sample Login (Name / iATL): _____	Date: _____	Time: _____
Analysis(Name(s) / iATL): <u>AAS</u>	Date: <u>8/16/17</u>	Time: <u>11 2017</u>
QA/QC Review (Name / iATL): <u>[Signature]</u>	Date: _____	Time: _____
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____

iATL - BY [Signature]

Urban



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

LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

34 + Blank

1/2

PROJECT #: 17-717 CLIENT: Shamong Township School District FACILITY: Indian Mills Memorial Middle School ADDRESS: 295 Indian Mills Rd., Shamong, NJ

PO #: *033264* SAMPLER(S): *A. Callison* DATE: *8-11-17*

Sample ID	Location/Description	Time	Sample Type:	Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc...
			Initial Flush (30sec / 15min)			
1	IMMS-IM-K Kitchen	<i>7:05</i>	<i>Initial</i>	Ice Machine	250mL	0313436
2	IMMS-FO-KIM Kitchen-by Ice Machine	<i>7:07</i>	<i>1</i>	Faucet Outlet	250mL	0313437
3	IMMS-FO-KST Kitchen-Kettle/Steamer	<i>7:08</i>	<i>1</i>	Faucet Outlet	250mL	0313438
4	IMMS-ST-K Kitchen-Steamer Box Unit	<i>7:10</i>	<i>1</i>	Steamer	250mL	<i>Unable to Sample</i>
5	IMMS-SFS-K3T-R Kitchen-3 Tub (Right)	<i>7:10</i>		Sink Faucet w/ Sprayer	250mL	0313439
6	IMMS-SF-K3T-L Kitchen-3 Tub (Left)	<i>7:11</i>		Sink Faucet	250mL	0313440
7	IMMS-SF-K2T Kitchen-2 Tub	<i>7:12</i>		Sink Faucet	250mL	0313441
8	IMMS-SF-K1T Kitchen-1 Tub	<i>7:13</i>		Sink Faucet	250mL	0313442
9	IMMS-WC-GIRL-L Gym-Girl's Locker Side (Left)	<i>7:14</i>		Water Cooler	250mL	0313443
10	IMMS-WC-GIRL-R Gym-Girl's Locker Side (Right)	<i>7:15</i>		Water Cooler	250mL	0313444
11	IMMS-WC-HGYM-LL Hall at Gym (Left Side-Left)	<i>7:15</i>		Water Cooler	250mL	0313445
12	IMMS-WC-HGYM-LR Hall at Gym (Left Side-Right)	<i>7:16</i>		Water Cooler	250mL	0313446
13	IMMS-WC-HGYM-RL Hall at Gym (Right Side-Left)	<i>7:17</i>		Water Cooler	250mL	0313447
14	IMMS-WC-HGYM-RR Hall at Gym (Right Side-Right)	<i>7:19</i>		Water Cooler	250mL	0313448
15	IMMS-WC-BOY-L Gym-Boy's Locker Side (Left)	<i>7:21</i>		Water Cooler	250mL	0313449
16	IMMS-WC-BOY-R Gym-Boy's Locker Side (Right)	<i>7:22</i>		Water Cooler	250mL	0313450
17	IMMS-WC-H100-L Hall at Library-100 Wing (Left)	<i>7:26</i>		Water Cooler	250mL	0313451
18	IMMS-WC-H100-C Hall at Library-100 Wing (Center)	<i>7:27</i>		Water Cooler	250mL	0313452
19	IMMS-WC-H100-R Hall at Library-100 Wing (Right)	<i>7:27</i>	<i>✓</i>	Water Cooler	250mL	0313453



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

LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

2/2

PROJECT #: 17-717		CLIENT: Shamong Township School District		FACILITY: Indian Mills Memorial Middle School		ADDRESS: 295 Indian Mills Rd., Shamong, NJ	
PO #:	SAMPLER(S):	DATE:	TIME:	Sample Type:	Outlet Type:	Volume	Notes:
Sample ID	Location/Description			Initial Flush (30sec / 15min)			Discolored, Odor, Low Flow, Etc...
20	IMMS-WC-H100RR-L Hall at 100 Wing Restroom's (Left)	7:28	Am	Initial	Water Cooler	250ml	0313454
21	IMMS-WC-H100RR-C Hall at 100 Wing Restroom's (Center)	7:29		Initial	Water Cooler	250ml	0313455 Both (Both the Filter)
22	IMMS-WC-H100RR-R Hall at 100 Wing Restroom's (Right)	7:30			Water Cooler	250ml	0313456
23	IMMS-SF-101PR 101 Prep Room	7:32			Sink Faucet	250ml	0313457
24	IMMS-SF-NURSE1 Nurse's Office	7:34			Sink Faucet	250ml	0313458
25	IMMS-SF-NURSE2 Nurse's Office by Restroom	7:35			Sink Faucet	250ml	0313459
26	IMMS-SF-BOE BOE Office Kitchenette	7:37			Sink Faucet	250ml	0313460
27	IMMS-SF-FACULTY Faculty	7:38			Sink Faucet	250ml	0313461
28	IMMS-WC-H200-L Hall at Library-200 Wing (Left)	7:40			Water Cooler	250ml	0313462
29	IMMS-WC-H200-C Hall at Library-200 Wing (Center)	7:41			Water Cooler	250ml	0313463
30	IMMS-WC-H200-R Hall at Library-200 Wing (Right)	7:43			Water Cooler	250ml	0313464
31	IMMS-WC-H200RR-L Hall at 200 Wing Restroom's (Left)	7:44			Water Cooler	250ml	0313465
32	IMMS-WC-H200RR-C Hall at 200 Wing Restroom's (Center)	7:45			Water Cooler	250ml	0313466
33	IMMS-WC-H200RR-R Hall at 200 Wing Restroom's (Right)	7:45			Water Cooler	250ml	0313467 Both (Both the Filter)
34	IMMS-SF-203 203	7:47			Sink Faucet	250ml	0313468
35	IMMS-SF-203PR 203 Prep Room	7:48			Sink Faucet	250ml	0313469
	Blank	7:04		Initial	Blank	250ml	0313470 He 10/17

VP. 8/14/17
111700