

CERTIFICATE OF ANALYSIS

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

Report Date: 4/6/2017
Report No.: 533417 - Lead Water
Project: Edgar Middle; 49 Brunswick Avenue
Project No.: 16-1614

Client: TTI379

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6192515 **Location:** Hall At Gym (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 1 EMS-WC-HGYML

Lab No.: 6192516 **Location:** Hall At Gym (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 2 EMS-WC-HGYMR

Lab No.: 6192517 **Location:** Nurse Office-Main-Sink Faucet **Result(ppb):** <2.00
Client No.: 3 EMS-SF-NURSEO

Lab No.: 6192518 **Location:** Nurse Office-Exam Room-Sink Faucet **Result(ppb):** <2.00
Client No.: 4 EMS-SF-NURSE1

Lab No.: 6192519 **Location:** Hall By Rm 113 (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 5 EMS-WC-H113L


Lab No.: 6192520 **Location:** Hall By Rm 113 (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 6 EMS-WC-H113R

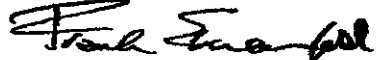
Lab No.: 6192521 **Location:** Faculty Room-Sink Faucet **Result(ppb):** <2.00
Client No.: 7 EMS-SF-FACULTY

Lab No.: 6192522 **Location:** Library Office-Sink Faucet **Result(ppb):** 5.80
Client No.: 8 EMS-SF-LIBRARYO
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

Lab No.: 6192523 **Location:** Hall At Rm 108-Water Cooler **Result(ppb):** <2.00
Client No.: 9 EMS-WC-H108

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

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LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.: 6192524 **Location:** Rm 106-Sink Faucet **Result(ppb):** 19.8
Client No.: 10 EMS-SF-R106
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

Lab No.: 6192525 **Location:** Rm 105-Sink Faucet **Result(ppb):** 19.0
Client No.: 11 EMS-SF-R105
Note: Sample turbidity >1.0 NTU. Does not meet Federal and NJ State Primary and Secondary Drinking Water Standards.

Lab No.: 6192526 **Location:** Hall By Rm 110 (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 12 EMS-WC-H110L

Lab No.: 6192527 **Location:** Hall By Rm 110 (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 13 EMS-WC-H110R

Lab No.: 6192528 **Location:** Main Office-Sink Faucet **Result(ppb):** <2.00
Client No.: 14 EMS-SF-MAINO


Lab No.: 6192529 **Location:** Rm 101-Sink Faucet **Result(ppb):** <2.00
Client No.: 15 EMS-SF-R101


Lab No.: 6192530 **Location:** Rm 103-Sink Faucet **Result(ppb):** 4.40
Client No.: 16 EMS-SF-R103

Lab No.: 6192531 **Location:** Kitchen w/Table-Sink Faucet **Result(ppb):** <2.00
Client No.: 17 EMS-SF-K

Lab No.: 6192532 **Location:** Hall At Kitchen-Water Cooler **Result(ppb):** <2.00
Client No.: 18 EMS-WC-HK

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.: 6192533 **Location:** Hall At Rm 14-Water Cooler **Result(ppb):** 8.10
Client No.: 19 EMS-WC-H14

Lab No.: 6192534 **Location:** Hall At Custodial Closet-Water Cooler **Result(ppb):** <2.00
Client No.: 20 EMS-WC-HCC

Lab No.: 6192535 **Location:** Room 15-Bathroom-Sink Faucet **Result(ppb):** 3.00
Client No.: 21 EMS-SF-R15RR

Lab No.: 6192536 **Location:** Hall At Rm S27-Water Cooler **Result(ppb):** <2.00
Client No.: 22 EMS-WC-RS27

Lab No.: 6192537 **Location:** Hall At Rm S25-Water Cooler **Result(ppb):** 8.00
Client No.: 23 EMS-WC-RS25


Lab No.: 6192538 **Location:** Hall At Rm 212 (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 24 EMS-WC-R212L

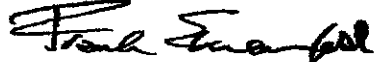
Lab No.: 6192539 **Location:** Hall At Rm 212 (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 25 EMS-WC-R212R

Lab No.: 6192540 **Location:** Hall At Rm 210 (Left)-Water Cooler **Result(ppb):** <2.00
Client No.: 26 EMS-WC-R210L

Lab No.: 6192541 **Location:** Hall At Rm 210 (Right)-Water Cooler **Result(ppb):** <2.00
Client No.: 27 EMS-WC-R210R

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

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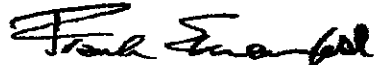
Lab No.: 6192542
Client No.: Blank

Location: Blank

Result(ppb): <2.00

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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.



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: <u>TTI Environmental, Inc.</u>	Project Number: <u>16-1614</u>
Office Address: <u>1253 North Church Street</u>	Project Name: <u>Metuchen BOE</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 # 022380 ESCNJ Co-Op
 Edgar Middle School
 (EMS)

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 (Name / iATL): _____	Date: _____	Time: _____	
Sample Login (Name / iATL): <u>4-2-17 RV</u>	Date: _____	Time: _____	
Analysis(Name(s) / iATL): _____	Date: _____	Time: _____	
QA/QC Review (Name / iATL): <u>[Signature]</u>	Date: _____	Time: _____	
Archived / Released: _____	QA/QC InterLAB Use: _____	Date: _____	Time: _____

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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: Edgar Middle		ADDRESS: 49 Brunswick Avenue	
PO #: 022380		SAMPLER(S): A. Culliton		DATE: 4/1/2017			
Sample ID	Location/Description	Time	Sample Type: Initial Push (30sec / 15min)	Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc...	
1	EMS-WC-HGYML Hall at Gym (Left)	7:05	Initial	Water Cooler	250ml	6192515	
2	EMS-WC-HGYMR Hall at Gym (Right)	7:06	Initial	Water Cooler	250ml	6192516	
3	EMS-SF-NURSEO Nurse Office-Main	7:12	Initial	Sink Faucet	250ml	6192517	
4	EMS-SF-NURSEI Nurse Office-Exam Room	7:13	Initial	Sink Faucet	250ml	6192518	
5	EMS-WC-H113L Hall by Rm 113 (Left)	7:16	Initial	Water Cooler	250ml	6192519	
6	EMS-WC-H113R Hall by Rm 113 (Right)	7:18	Initial	Water Cooler	250ml	6192520	
7	EMS-SF-FACULTY Faculty Room	7:20	Initial	Sink Faucet	250ml	6192521	
8	EMS-SF-LIBRARYO Library Office	7:22	Initial	Sink Faucet	250ml	6192522	
9	EMS-WC-H108 Hall at Rm 108	7:25	Initial	Water Cooler	250ml	6192523 Leaking	
10	EMS-SF-R106 Rm 106	7:29	Initial	Sink Faucet	250ml	6192524	
11	EMS-SF-R105 Rm 105	7:30	Initial	Sink Faucet	250ml	6192525	
12	EMS-WC-H110L Hall at Rm 110 (Left)	7:34	Initial	Water Cooler	250ml	6192526	
13	EMS-WC-H110R Hall at Rm 110 (Right)	7:35	Initial	Water Cooler	250ml	6192527	
14	EMS-SF-MAINO Main Office	7:37	Initial	Sink Faucet	250ml	6192528	
15	EMS-SF-R101 Rm 101	7:39	Initial	Sink Faucet	250ml	6192529	
16	EMS-SF-R103 Rm 103	7:40	Initial	Sink Faucet	250ml	6192530	
17	EMS-SF-K Kitchen w/ Table	7:41	Initial	Sink Faucet	250ml	6192531	
18	EMS-WC-HK Hall at Kitchen	7:43	Initial	Water Cooler	250ml	6192532	
19	EMS-WC-H14 Hall at Rm 14	7:44	Initial	Water Cooler	250ml	6192533	



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LEAD IN WATER SAMPLING DATA AND CHAIN OF CUSTODY

PROJECT #: 16-1614		CLIENT: Metuchen BOE		FACILITY: Edgar Middle			
PO #: 022380		SAMPLER(S): A. Cullifton		ADDRESS: 49 Brunswick Avenue			
Sample ID	Location/Description	Time	Sample Type:		Outlet Type:	Volume	Notes: Discolored, Odor, Low Flow, Etc.:
			Initial	Flush (30sec/ 15min)			
20	EMS-WC-HCC Hall at Custodial Closet	7:45	Initial		Water Cooler	250ml	6192534
21	EMS-SF-R15RR Rm 15-Bathroom	7:46	Initial		Sink Faucet	250ml	6192535
22	EMS-WC-RS27 Hall at Rm S27	7:51	Initial		Water Cooler	250ml	6192536
23	EMS-WC-RS25 Hall at Rm S25	7:52	Initial		Water Cooler	250ml	6192537
24	EMS-WC-R212L Hall at RM 212 (Left)	7:54	Initial		Water Cooler	250ml	6192538
25	EMS-WC-R212R Hall at RM 212 (Right)	7:55	Initial		Water Cooler	250ml	6192539
26	EMS-WC-R210L Hall at RM 210 (Left)	7:56	Initial		Water Cooler	250ml	6192540
27	EMS-WC-R210R Hall at RM 210 (Right)	7:58	Initial		Water Cooler	250ml	6192541
	BLANK	7:00				250ml	6192542
						250ml	
						250ml	
						250ml	
						250ml	
						250ml	
						250ml	
						250ml	
						250ml	
						250ml	

ACID #
24 3.14