



**PARS**  
Environmental  
Inc.

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# **LEAD IN DRINKING WATER TESTING REPORT**

**WOODBIDGE TWP. SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
428 SCHOOL STREET  
WOODBIDGE, NEW JERSEY 07095**

**PREPARED FOR:**

**Woodbridge Township School District  
PO Box 428  
School Street  
Woodbridge, New Jersey 07095**

**PREPARED BY:**

**PARS Environmental, Inc.  
500 Horizon Drive, Suite 540  
Robbinsville, New Jersey 08691  
Tel: 609-890-7277  
Fax: 609-890-9116**

**PARS Project No. 1135-01**

**June 2016**



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## EXECUTIVE SUMMARY

PARS Environmental, Inc. (PARS) was retained by the Woodbridge Township School District (District) to conduct lead in drinking water testing at the Administration Building. PARS conducted the lead in drinking water testing on April 28, 2016. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the building, as recommended in the United States Environmental Protection Agency (USEPA) *3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (USEPA 3Ts)*. PARS collected the water samples from drinking fountains located throughout the building. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

### FINDINGS

The USEPA National Primary Drinking Water Regulations requires that immediate action be taken if samples from any drinking water outlet exhibit lead concentrations greater than fifteen (15) micrograms per liter ( $\mu\text{g}/\text{l}$ ). Exceedance of the 15  $\mu\text{g}/\text{l}$  action level was not identified in the Administration Building. A total of two (2) water samples were collected and analyzed.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.



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## 1.0 INTRODUCTION

PARS Environmental, Inc. (PARS) was retained by the Woodbridge Township School District (District) to conduct lead in drinking water testing at the Administration Building. The purpose of the investigation was to test for lead in drinking water in the building. The water samples were collected from strategic high priority locations throughout the building, as recommended in the *USEPA 3Ts*. PARS collected the water samples from drinking fountains throughout the building. The sample collection took place in the morning prior to the facility opening and before any water was drawn.

Sampling methodology is described in Section 2.0, the Lead in Drinking Water Findings are discussed in Section 3.0, and the Conclusions and Recommendations are presented in Section 4.0. A list of the sample locations and results are provided in **Table 1**. The Laboratory Analytical Report and Laboratory NELAC Certification are provided in **Appendix A** and **B**, respectively.

This report is intended for the sole use of the District. The scope of services performed in execution of this evaluation may not be appropriate to satisfy the needs of other users, and use or re-use of this document or the findings, conclusions, or recommendations, is at risk of said user.



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## 2.0 LEAD IN DRINKING WATER SAMPLING

PARS conducted lead in drinking water testing at the Administration Building on April 26, 2016. The lead in drinking water sampling was conducted by Julian Fernandez-Obregon and Eric Thom of PARS.

PARS performed lead in drinking water testing at a total of two (2) drinking water fountains (bubbler and cooler units) in the building.

All samples were collected following the USEPA First Draw sampling protocol. The First Draw sample collection occurred in the morning prior to the facility opening and before any water was drawn in the building, including toilet flushing. The water was unused for six (6) to eight (8) hours prior to collection. Arrangements were made to sample the water outlets prior to the arrival of building occupants.

The samples were placed in pre-preserved plastic bottles and submitted for laboratory analysis to International Asbestos Testing Laboratories (IATL) of Mount Laurel, New Jersey for a two-week turnaround. IATL is a New Jersey Department of Environmental Protection (NJDEP) certified laboratory for lead in drinking water (#03863). All samples were analyzed using USEPA Method 200.8 for the determination of trace elements in waters and wastes by inductively coupled plasma – mass spectrometry (ICP-MS). Chain-of-custody protocols were followed.



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### 3.0 LEAD IN DRINKING WATER FINDINGS

Based on the laboratory analytical results, lead concentrations exceeding 15 µg/l action level were not identified in the two (2) water samples collected at the Administration Building.

Lead in drinking water tabulated results for the Administration Building are provided in **Table 1**. The laboratory analytical report is included in **Appendix A**. The laboratory certification is included in **Appendix B**.



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## 4.0 CONCLUSIONS AND RECOMMENDATIONS

A total of two (2) drinking water fountains were tested at the Administration Building. The USEPA recommends that action be taken if samples from any drinking water outlet exhibit lead concentrations greater than 15 µg/l. Neither of the outlets sampled in the Administration Building exceeded the 15 µg/l action level.

Based on the laboratory analytical results, no further investigation is warranted at this time. PARS recommends periodic testing per state and federal regulations.

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PARS appreciates the opportunity to assist Woodbridge Township School District with this project. Should you have any questions or comments please feel free to contact us at (609) 890-7277.

Respectfully submitted,

**PARS ENVIRONMENTAL, INC.**

Rafael L. Torres, III  
Senior Industrial Hygienist



**LEAD IN DRINKING WATER TESTING REPORT  
WOODBIDGE TOWNSHIP SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
JUNE 2016**

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**TABLE 1  
DRINKING WATER RESULTS TABLE**



TABLE 1  
 LEAD IN DRINKING WATER TESTING REPORT  
 WOODBRIDGE TOWNSHIP SCHOOL DISTRICT  
 ROSS STREET SCHOOL

Batch #	iATL Sample #	Customer Sample #	Project #	Project Name	Location	Concentration(1)	Dilution Factor(1)	Qualifier(1)	Results(1) in ppb
508535	5915778	WAB-1-HPER-WC-P	1135-01	Administration Building	Lead Water, 4-28-16	1.4	1	<	2.0
508535	5915779	WAB-1-HSS-WC-P	1135-01	Administration Building	Lead Water, 4-28-16	0.5	1	<	2.0

**Client Sample ID Format:**

**Floor:**

- B = Basement
- 01 = First floor
- 02 = Second floor

Exceeds 15 ppb

**School-Floor-Room-Outlet-Sample Type**

**Room:**

- ### = Room number ###
- ###-### = Sample between room number ### and room ###
- H### = Hallway by room number ###
- BLR = Boy's locker room
- CAF = Cafeteria
- FR = Faculty room
- GLR = Girl's locker room
- KIT = Kitchen
- MGYM = Main gym
- MO = Main office
- NUR = Nurse's office
- SGYM = Small gym
- TGL = Team girl's locker room
- TL = Teacher's lounge
- TP = Teacher's prep room
- PLR = Pool Locker room
- GU = Guidance Office

**Outlet:**

- BF = Bathroom faucet
- CF = Classroom faucet
- DW= Drinking water bubbler
- FP = Food preparation
- EC = Home economics room, cold
- KC = Kitchen faucet, cold
- LC = Lounge faucet, cold
- NS = Nurse's office sink
- SC = Service Connection
- TF or TS = Teacher's faucet or Teacher's sink
- WC = Water cooler (chiller unit)
- HS = Hand Sink



**LEAD IN DRINKING WATER TESTING REPORT  
WOODBIDGE TOWNSHIP SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
JUNE 2016**

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**APPENDIX A  
LABORATORY ANALYTICAL REPORT**

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## CERTIFICATE OF ANALYSIS

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**Client:** PARS Environmental  
500 Horizon Drive, Suite 540  
Robbinsville NJ 08691

**Report Date:** 5/18/2016  
**Report No.:** 508535 - Lead Water  
**Project:** Administration Building  
**Project No.:** 1135-01

**Client:** PAR559

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### LEAD WATER SAMPLE ANALYSIS SUMMARY

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**Lab No.:** 5915778  
**Client No.:** WAB-1-HPER-WC-P

**Location:** Lead Water, 4-28-16

**Result(ppb):** <2.0

**Lab No.:** 5915779  
**Client No.:** WAB-1-HSS-WC-P


**Location:** Lead Water, 4-28-16

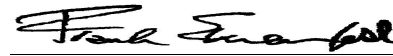
**Result(ppb):** <2.0

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

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**Date Received:** 4/28/2016  
**Date Analyzed:** 5/18/2016 12:00:00 AM  
**Signature:**   
**Analyst:** Chad Shaffer

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

## CERTIFICATE OF ANALYSIS

**Client:** PARS Environmental  
500 Horizon Drive, Suite 540  
Robbinsville NJ 08691

**Report Date:** 5/18/2016  
**Report No.:** 508535 - Lead Water  
**Project:** Administration Building  
**Project No.:** 1135-01

**Client:** PAR559

### Appendix to Analytical Report:

**Customer:** PARS Environmental  
**Address:** 500 Horizon Drive, Suite 540  
**Customer Contact:** Margaret Halasnik  
**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 –

### Contact Information

<b>Client Company:</b> <u>PARS Environmental, Inc.</u>	<b>Project Number:</b> <u>1135-01</u>
<b>Office Address:</b> <u>500 Horizon Drive, Suite 540</u>	<b>Project Name:</b> <u>Administration Building</u>
<b>City, State, Zip:</b> <u>Robbinsville, NJ 08691</u>	<b>Primary Contact:</b> <u>Rafael Torres</u>
<b>Fax Number:</b> <u>609-890-9116</u>	<b>Office Phone:</b> <u>609-890-7277</u>
<b>Email Address:</b> <u>rtorres@parsenviro.com</u>	<b>Cell Phone:</b> <u>609-254-8884</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 \_\_\_\_\_

E-MAIL  
5/18/16 NG

### Special Instructions:

\_\_\_\_\_

\_\_\_\_\_

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax 2

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>Eric Thom / PARS</u>	Date: <u>4/28/16</u> Time: _____
Received (Name / iATL): <u>J. Chomzed</u>	Date: <u>4-28-16</u> Time: <u>9:38 AM</u>
Sample Login (Name / iATL): _____	Date: <u>4-28-16</u> Time: <u>APR 28 2016</u>
Analysis(Name(s) / iATL): <u>Costa/ML</u>	Date: _____ Time: _____
QA/QC Review (Name / iATL): _____	Date: <u>5/18/16</u> Time: _____
Archived / Released: _____ QA/QC InterLAB Use: _____	Date: _____ Time: <u>IATL By</u>

RECEIVED



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: PARS Environmental, Inc. Project: Administration Building

Sampling Date/Time: 4/28/16

Client Sample #	iATL #	Location/Description	Flow Rate	Start End	Sampling time (min)	Area (ft <sup>2</sup> ) Volume (L)	Results ( )
WAB-1-HPER-WC-P	5915778				0501		
WAB-1-HSS-WC-P	5915779				0503		

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



## DAILY QUALITY CONTROL DATA

### LEAD SAMPLE ANALYSIS

(DATE: 05 / 18 / 16)

Standard	Total Lead (mg)	Percent Recovery **
Reagent Blank	0.000	< LOQ
Blank Spike	0.500	97
Lab Control Std	1.690	93
Matrix Spike - LBP *	0.33	93
Matrix Spike - Wipe *	0.28	105
Matrix Spike - Soil *	0.333	94
Matrix spike - Air *		
2.5 ppm Standard	0.25	98
10.0 ppm Standard	1.0	101
40.0 ppm Standard	4.0	100

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: 5/18/16

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



**LEAD IN DRINKING WATER TESTING REPORT  
WOODBIDGE TOWNSHIP SCHOOL DISTRICT  
ADMINISTRATION BUILDING  
JUNE 2016**

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**APPENDIX B  
LABORATORY CERTIFICATION**



*State of New Jersey*  
*Department of Environmental Protection*  
*Certifies That*

**International Asbestos Testing Laboratories**

Laboratory Certification ID # 03863

*having duly met the requirements of the*  
**Regulations Governing the Certification of**  
**Laboratories and Environmental Measurements N.J.A.C. 7:18 et. seq.**

*is hereby approved as a*  
**State Certified Environmental Laboratory**  
*to perform the analyses as indicated on the Annual Certified Parameter List*  
*which must accompany this certificate to be valid*

Expires June 30, 2016



*Michael M. Patte for JFA*

Joseph F. Aiello  
Assistant Director

New Jersey Department of Environmental Protection  
 Environmental Laboratory Certification Program  
**ANNUAL CERTIFIED PARAMETER LIST AND CURRENT STATUS**  
 Effective as of 09/30/2015 until 06/30/2016

Laboratory Name: INTERNATIONAL ASBESTOS TESTING LABORATORIES Laboratory Number: 03863 Activity ID: SLC150001  
 9000 COMMERCE PKWY STE B  
 Mount Laurel, NJ 08054

Category: AE03 -- Asbestos Analysis

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	AE03 .00010	AE	Phase Contrast Microscopy	[OTHER NIOSH 7400]	Asbestos

Category: DW05 -- Asbestos Analysis

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	DW05 .00001	DW	Transmission Electron Microscopy	[EPA 100.1]	Asbestos
Certified	DW05 .00010	DW	Transmission Electron Microscopy	[EPA 100.2]	Asbestos

Category: DW06 -- Metals

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Certified	DW06 .00340	DW	Graphite Furnace	[ASTM D3559 (D)]	Lead

Category: SCM04 -- Asbestos Analysis

Status	Code	Matrix	Technique Description	Approved Method	Parameter Description
Applied	SCM04.00010	SCM	Polarized Light Microscopy	[EPA 600/R-93-116]	Asbestos
Applied	SCM04.00070	SCM	Transmission Electron Microscopy	[EPA 600/R-93-116]	Asbestos

*Michael M. Patta for J2A*

Joseph F. Aiello, Manager

KEY: AE = Air and Emissions, BT = Biological Tissues, DW = Drinking Water, NPW = Non-Potable Water, SCM = Solid and Chemical Materials



## State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF QUALITY ASSURANCE

401 E. State Street  
P.O. Box 420, Mail Code 401-02D  
Trenton, NJ 08625-0420  
TEL: # (609) 292-3950  
FAX # (609) 777-1774

CHRIS CHRISTIE  
*Governor*

BOB MARTIN  
*Commissioner*

KIM GUADAGNO  
*Lt. Governor*

FRANK EHRENFELD  
INTERNATIONAL ASBESTOS TESTING  
LABORATORIES  
9000 COMMERCE PKWY STE B  
MOUNT LAUREL, NJ 08054  
Lab ID # 03863

Dear Laboratory Manager:

A Certificate and an Annual Certified Parameter List (ACPL) that reflects the current status of your facility are enclosed. If there are any discrepancies, please contact your Laboratory Certification Officer to verify information and make arrangements for a new ACPL. Effective with the receipt of this letter, your facility's certification status is valid through June 30, 2016. Both the ACPL and Certificate should be conspicuously displayed at your facility in a location on the premises that is visible to the public.

As always, we are available to discuss any comments or questions. Please do not hesitate to contact your laboratory certification officer or me.

Sincerely,

A handwritten signature in cursive script that reads "Michele M. Potter".

Michele Potter  
Environmental Specialist 4

Enclosures