UNITED ANALYTICAL SERVICES, INC.

1429 Centre Circle Drive
Downers Grove, IL 60515
Phone: (630) 691-8271
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E-Mail: uasinc@uas1.com

January 18, 2017

Board of Education
Palatine C.C. School District #15
580 N. First Bank Drive
Palatine, Illinois 60067

UAS Project #1698652-01

Attn: Scott B. Thompson, Ed.D.
Re: Industrial Hygiene Professional and Analytical Services
Water Testing Services for Lead - Drinking Water Sources
Palatine C.C. School District #15 - John G. Conyers Learning Academy
2800 W. Central Road, Rolling Meadows, Illinois 60008
January 5, 2017

Dear Dr. Thompson:

United Analytical Services, Inc. (UAS) has prepared this executive summary of findings for the drinking water sampling performed at Palatine C.C. School District #15's **John G. Conyers Learning Academy** on January 5, 2017. The current testing involved collecting drinking water samples from fourteen (14) representative drinking water locations (drinking water coolers, water bottle filling stations and faucets) that were accessible to the Students, Faculty and Staff with laboratory analysis for the presence of Lead. UAS collected first and second draw samples (for a total of 28 Samples), using 250 milliliter (mL) plastic bottles pre-treated with Nitric Acid for compliance with the US Environmental Protection Agency (EPA) - Drinking Water in Public Water Systems and Schools Standards. Each of the drinking water locations assessed was flushed the night before sampling by the District Engineering Staff and allowed to sit inactive overnight prior to sampling in the early morning. All sampling was performed under the direct supervision of a Certified Industrial Hygienist (CIH).

The first draw sample was the first water to come out of the water tap after the overnight period of inactivity. The purpose of this sample was to assess potential Lead contamination within the fixture. The water was "flushed" for a period of 30 seconds prior to taking the second draw sample. The purpose of this sample was to assess potential Lead contamination within the building's internal plumbing. Water sampling was performed utilizing the U.S. Environmental Protection Agency - *3Ts for Reducing Lead in Drinking Water in Schools; Revised Technical Guidance - October 2006,* as a guideline for the testing. All Lead water samples were analyzed using ICP/MS methods and submitted to a properly accredited laboratory following appropriate chain-of-custody procedures.

The test results (see attached Table 1 and Lab Report) were compared to the US Environmental Protection Agency (EPA) Primary Standard for Lead (PB), as a conservative Lead Action Level. The Maximum Contaminant Level (MCL) target level for Pb in drinking water is <15 µg/L. **Review of the test results indicate that all twenty-eight (28) of the representative water samples collected were determined to be below the MCL target levels.** For example, the reported concentrations for the current sampling noted that twenty-two (22) of the Pb levels were None Detected (<1.0 µg Lead/L), with the additional six (6) samples resulting in concentrations ranging from 1.1 µg Lead/L to 2.2 µg Lead/L.

These results are indication that, in general, Pb in the drinking water at John G. Conyers Learning Academy was at the lower end of the recommended Primary MCL target levels.

While none of the remaining drinking water coolers or water sources need to be taken out of service at this time, the drinking water sources with detectable lead, and the drinking water in general at the school, may warrant additional consideration. At this time, as a precautionary measure, UAS recommends the following:

1. The District should extend additional consideration(s) where Lead was detectable, but less than the MCL.
2. The District should extend additional consideration, response action and follow-up testing following work to repair or replace service lines and plumbing with lead, water meters, water tanks or drinking water fixtures.
3. Information in The District's standard operating procedures that plumbing work may result in sediment, possibly containing lead, in the school's water supply and/or drinking water fixtures.
4. Information in The District's preventative maintenance program(s) concerning best practices for preventing the consumption of lead in drinking water, including a recommendation to flush water lines during and after the completion of repair or replacement work, to clean faucet aerator screens, to replace water filters (where applicable) and properly document these activities.

For your consideration, a copy of the EPA Sample Strategy Flowchart has been provided for future assistance in evaluating the target drinking water within the building.

Other than the precautionary measures recommended, no further action is recommended, as outlined in the attached US EPA Sample Strategy Flowchart. **The overall results are a strong indicator that Pb in the drinking water at John G. Conyers Learning Academy is at the lower end of the recommended MCL target level.**

Based on the current sampling results and the US EPA Standard noted, the Lead levels in the drinking water at the John G. Conyers Learning Academy are considered safe for human consumption.

Thank you for the continued opportunity to be of service to Palatine C.C. School District #15. If you have any questions regarding this information, please do not hesitate to contact our office.

Sincerely,
UNITED ANALYTICAL SERVICES, INC.

Thad Daniels
Director of Field Services

Kyle Cotton
Field Services Manager

attachments: 01/13/17 Laboratory Report & COC
EPA Drinking Water in Schools - Sampling Strategy Flow Chart

cc: Kevin E. Aikman, Ph.D., CIH, FAIHA (UAS)

S:\TD\IHReports\SD15.Conyers LA.1698652-01.Report

Table 1. Summary of Lead in drinking water sampling results taken at the **John G. Conyers Learning Academy** located at 2800 W Central Rd, Rolling Meadows, IL 60008 on January 5, 2017.

SAMPLE LOCATION	**SAMPLE NUMBER**	**Lead (µg/L)** 1st Draw Sample	2nd Draw Sample
Nurse's Office Sink	JCLA-01 & -02	< 1.0	< 1.0
Teacher's Lounge Sink	JCLA-03 & -04	< 1.0	< 1.0
Kitchen Sink	JCLA-05 & -06	< 1.0	< 1.0
415 Corridor DWC	JCLA-07 & -08	< 1.0	< 1.0
416 Corridor DWC	JCLA 09 & -10	< 1.0	1.1
Outside 107 DWC	JCLA-11 & -12	< 1.0	< 1.0
Outside 101A DWC	JCLA-13 & -14	< 1.0	< 1.0
Outside 207 DWC	JCLA-15 &-16	< 1.0	< 1.0
408A Warehouse DWC	JCLA-17 &-18	1.3	1.4
Outside 151 Girl's RR DWC	JCLA-19 & -20	< 1.0	2.2
Outside 160 Boy's RR DWC	JCLA-21 & -22	< 1.0	2.1
Outside 260A DWC	JCLA-23 &-24	< 1.0	< 1.0
Outside 252 DWC	JCLA-25 &-26	< 1.0	< 1.0
Outside 134 DWC	JCLA-27 & -28	< 1.0	1.7
Target Level*		<15	<15
Reporting Limit		5.00 µg	5.00 µg

Notes: * = US EPA Action Level for Public Water Systems is <15 µg/L.
US EPA Action Level for Lead in Drinking Water in Schools is <20 µg/L.
Limit of Detection is 5.00 µg/L & <5.00 µg/L = None Detected
DWC = Drinking Water Cooler & DWB = Drinking Water Bottle Filler Fixture

STAT Analysis Corporation
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Accreditations: IEPA ELAP 100445; ORELAP IL300001; AIHA-LAP, LLC 101160; NVLAP LabCode 101202-0

January 13, 2017

United Analytical Service, Inc.
1429 Centre Circle Drive
Downers Grove, IL 60515
Telephone: (630) 691-8271
Fax: (630) 691-1819

Analytical Report for STAT Work Order: 17010132 Revision 0

RE: 1698652-01T, Palatine C.C. SD #15, John G. Conyers Learning Academy

Dear Thad Daniels:

STAT Analysis received 28 samples for the referenced project on 1/6/2017 4:05:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,

Justice Kwateng
Project Manager

STAT Analysis Corporation

Date: January 13, 2017

Client: United Analytical Service, Inc.
Project: 1698652-01T, Palatine C.C. SD #15, John G. Conyers
Work Order: 17010132 Revision 0

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
17010132-001A	JCLA-01 Nurses Office Sink		1/5/2017	1/6/2017
17010132-002A	JCLA-02 Nurses Office Sink		1/5/2017	1/6/2017
17010132-003A	JCLA-03 Teachers Lounge Sink		1/5/2017	1/6/2017
17010132-004A	JCLA-04 Teachers Lounge Sink		1/5/2017	1/6/2017
17010132-005A	JCLA-05 Kitchen Sink		1/5/2017	1/6/2017
17010132-006A	JCLA-06 Kitchen Sink		1/5/2017	1/6/2017
17010132-007A	JCLA-07 415 Corridor DWC		1/5/2017	1/6/2017
17010132-008A	JCLA-08 415 Corridor DWC		1/5/2017	1/6/2017
17010132-009A	JCLA-09 416 Corridor DWC		1/5/2017	1/6/2017
17010132-010A	JCLA-10 416 Corridor DWC		1/5/2017	1/6/2017
17010132-011A	JCLA-11 Outside 107 DWC		1/5/2017	1/6/2017
17010132-012A	JCLA-12 Outside 107 DWC		1/5/2017	1/6/2017
17010132-013A	JCLA-13 Outside 101A DWC		1/5/2017	1/6/2017
17010132-014A	JCLA-14 Outside 101A DWC		1/5/2017	1/6/2017
17010132-015A	JCLA-15 Outside 207 DWC		1/5/2017	1/6/2017
17010132-016A	JCLA-16 Outside 207 DWC		1/5/2017	1/6/2017
17010132-017A	JCLA-17 408A Warehouse DWC		1/5/2017	1/6/2017
17010132-018A	JCLA-18 408A Warehouse DWC		1/5/2017	1/6/2017
17010132-019A	JCLA-19 Outside 151 Girls RR DWC		1/5/2017	1/6/2017
17010132-020A	JCLA-20 Outside 151 Girls RR DWC		1/5/2017	1/6/2017
17010132-021A	JCLA-21 Outside 160 Boys DWC		1/5/2017	1/6/2017
17010132-022A	JCLA-22 Outside 160 Boys DWC		1/5/2017	1/6/2017
17010132-023A	JCLA-23 Outside 260A DWC		1/5/2017	1/6/2017
17010132-024A	JCLA-24 Outside 260A DWC		1/5/2017	1/6/2017
17010132-025A	JCLA-25 Outside 252 DWC		1/5/2017	1/6/2017
17010132-026A	JCLA-26 Outside 252 DWC		1/5/2017	1/6/2017
17010132-027A	JCLA-27 Outside 134 DWC		1/5/2017	1/6/2017
17010132-028A	JCLA-28 Outside 134 DWC		1/5/2017	1/6/2017

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Date Reported: January 13, 2017

Date Printed: January 13, 2017

ANALYTICAL RESULTS

Client: United Analytical Service, Inc.
Work Order: 17010132 Revision 0
Project: 1698652-01T, Palatine C.C. SD #15, John G. Conyers Le

Client ID	Additional Info	Sample ID	Matrix	Lead Result	Units	Qualifier	Analyst	Date Analyzed	Analytical Method
JCLA-01 Nurses Office Sink		17010132-001A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-02 Nurses Office Sink		17010132-002A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-03 Teachers Lounge Sink		17010132-003A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-04 Teachers Lounge Sink		17010132-004A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-05 Kitchen Sink		17010132-005A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-06 Kitchen Sink		17010132-006A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-07 415 Corridor DWC		17010132-007A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-08 415 Corridor DWC		17010132-008A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-09 416 Corridor DWC		17010132-009A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-10 416 Corridor DWC		17010132-010A	Water	1.1	µg/L		JG	01/12/2017	EPA 200.8
JCLA-11 Outside 107 DWC		17010132-011A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-12 Outside 107 DWC		17010132-012A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-13 Outside 101A DWC		17010132-013A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-14 Outside 101A DWC		17010132-014A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-15 Outside 207 DWC		17010132-015A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-16 Outside 207 DWC		17010132-016A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-17 408A Warehouse DWC		17010132-017A	Water	1.3	µg/L		JG	01/12/2017	EPA 200.8
JCLA-18 408A Warehouse DWC		17010132-018A	Water	1.4	µg/L		JG	01/12/2017	EPA 200.8
JCLA-19 Outside 151 Girls RR DWC		17010132-019A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8

Qualifiers:
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
* - Non-accredited parameter

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Date Reported: January 13, 2017

Date Printed: January 13, 2017

ANALYTICAL RESULTS

Client: United Analytical Service, Inc.
Work Order: 17010132 Revision 0
Project: 1698652-01T, Palatine C.C. SD #15, John G. Conyers Le

Client ID	Additional Info	Sample ID	Matrix	Lead Result	Units	Qualifier	Analyst	Date Analyzed	Analytical Method
JCLA-20 Outside 151 Girls RR DWC		17010132-020A	Water	2.2	µg/L		JG	01/12/2017	EPA 200.8
JCLA-21 Outside 160 Boys DWC		17010132-021A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-22 Outside 160 Boys DWC		17010132-022A	Water	2.1	µg/L		JG	01/12/2017	EPA 200.8
JCLA-23 Outside 260A DWC		17010132-023A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-24 Outside 260A DWC		17010132-024A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-25 Outside 252 DWC		17010132-025A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-26 Outside 252 DWC		17010132-026A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-27 Outside 134 DWC		17010132-027A	Water	< 1.0	µg/L		JG	01/12/2017	EPA 200.8
JCLA-28 Outside 134 DWC		17010132-028A	Water	1.7	µg/L		JG	01/12/2017	EPA 200.8

Qualifiers:
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
* - Non-accredited parameter

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CHAIN OF CUSTODY RECORD

Client:	United Analytical Services Inc.
Street Address:	1429 Centre Circle Dr.
City, State, Zip:	Downers Grove, IL
Phone:	630-691-8271
Fax:	630-691-1819
e-mail/Alt. Fax:	tdaniels@uas1.com
Project Number:	1698652-01 T
Project Name:	Palatine C.C. SD #15
Project Location:	John G. Conyers Learning Academy
Project Manager:	Thad Daniels
P.O. Number:	1698652-01 T

Turn Around: 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☐ 5 Days: ☒

Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 170132

Samples Acceptable: Yes: ☑ No: ☐

Checked by (Initial/Date): MK 1/13/17

QC by (Initial/Date): _____

Reported By (Initial/Date/Time/Method): _____

Comments: _____

Relinquished by:		Date/Time: 1/5/17
Received by:		Date/Time: 1/6/17 21:18
Relinquished by:		Date/Time: 1/6/17 16:05
Received by:		Date/Time: 1/6/17 16:05
Relinquished by:		Date/Time:
Received by:		Date/Time:

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	Lead Air	Lead Ambient Air	Lead Based Paint	Lead Soil	Lead Drinking Water	Lead Waste Water	Lead Wipe		TCLP Lead	TCLP RCRA Metals		Dust NIOSH 500	Dust NIOSH 600		Hexavalent Chromium		Other:
JCLA-01 Nurses Office Sink	1/5/17				250mL		001					X												
JCLA-02 Nurses Office Sink							002																	
JCLA-03 Teachers Lounge Sink							003																	
JCLA-04 Teachers Lounge Sink							004																	
JCLA-05 Kitchen Sink							005																	
JCLA-06 Kitchen Sink							006																	
JCLA-07 4/5 Corridor DWC							007																	
JCLA-08 4/5 Corridor DWC							008																	
JCLA-09 4/5 Corridor DWC							009																	
JCLA-10 4/5 Corridor DWC							010																	
JCLA-11 Outside 107 DWC							011																	
JCLA-12 Outside 107 DWC							012																	
JCLA-13 Outside 101A DWC							013																	

Comments: _____

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Project Name:	Palatine C.C. SD #15
Project Location:	John G. Conyers Learning Academy
Project Manager:	Thad Daniels
P.O. Number:	1698652-01 T

Turn Around: 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☐ 5 Days: ☒

Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 1701013Z

Samples Acceptable: Yes: ☑ No: ☐

Checked by (Initial/Date): MK 1/13/17

QC by (Initial/Date):

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time:	1/5/17
Received by:	Date/Time:	1/6/17 2:05
Relinquished by:	Date/Time:	1/6/17 16:05
Received by:	Date/Time:	1/6/17 16:05
Relinquished by:	Date/Time:	1/6/17 16:05
Received by:	Date/Time:	

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	Lead Air	Lead Ambient Air	Lead Based Paint	Lead Soil	Lead Drinking Water	Lead Waste Water	Lead Wipe		TCLP Lead	TCLP RCRA Metals		Dust NIOSH 500	Dust NIOSH 600		Hexavalent Chromium		Other:
JCLA-14 outside 104 Dwc	1/5/17				250		014					X												
JCLA-15 outside 207 Dwc							015																	
JCLA-16 outside 207 Dwc							016																	
JCLA-17 408A Warehouse Dwc							017																	
JCLA-18 408A Warehouse Dwc							018																	
JCLA-19 Outside 151 Girls RR Dwc							019																	
JCLA-20 Outside 151 Girls RR Dwc							020																	
JCLA-21 Outside 160 Boys Dwc							021																	
JCLA-22 Outside 160 Boys Dwc							022																	
JCLA-23 Outside 200A Dwc							023																	
JCLA-24 Outside 200A Dwc							024																	
JCLA-25 Outside 252 Dwc							025																	
JCLA-26 Outside 257 Dwc							026																	

Comments:

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Turn Around: 4 Hrs: ☐ 8 Hrs: ☐ 24 Hrs: ☐ 1 Day: ☐ 2 Days: ☐ 3 Days: ☐ 5 Days: ☒

Date Due: Time Due: Note: Not all turn around times are available for all analysis.

OFFICE USE ONLY BELOW:

Batch No.: 1761132

Samples Acceptable: Yes: ☑ No: ☐

Checked by (Initial/Date): MK 1/13/17

QC by (Initial/Date):

Reported By (Initial/Date/Time/Method):

Comments:

Relinquished by:	Date/Time:	1/5/17
Received by: STAT	Date/Time:	1/6/17 2115
Relinquished by: STAT	Date/Time:	1/6/17 16:05
Received by:	Date/Time:	1/6/17 1605
Relinquished by:	Date/Time:	
Received by:	Date/Time:	

Client Sample Number/Description:	Date Taken	Time On	Time Off	Rate (lpm)	Volume (Liters)	Area Wiped (ft^2)	Laboratory Sample No.	Lead Air	Lead Ambient Air	Lead Based Paint	Lead Soil	Lead Drinking Water	Lead Waste Water	Lead Wipe		TCLP Lead	TCLP RCRA Metals		Dust NIOSH 500	Dust NIOSH 600		Hexavalent Chromium		Other:
JCLA-27 Outside 134 DWC	1/5/17				250 mL		027					X												
JCLA-28 Outside 134 DWC	↓						028					X												

Comments:

STAT Analysis Corporation

Sample Receipt Checklist

Client Name UNITED ANALYTICAL | Date and Time Received: 1/6/2017 4:05:00 PM

Work Order Number 17010132 | Received by: JDR

Checklist completed by: Signature 1/6/17 Date | Reviewed by: Initials FR 1/9/17 Date

Matrix | Carrier name STAT Analysis

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels/containers?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container or Temp Blank temperature in compliance?	Yes ☑	No ☐	Temperature 4.8 °C
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☐	No ☐
Water - Samples pH checked?	Yes ☑	No ☐	Checked by: JG
Water - Samples properly preserved?	Yes ☑	No ☐	pH Adjusted? NO

Any No response must be detailed in the comments section below.

Comments:

Client / Person contacted: Date contacted: Contacted by:

Response:

Exhibit 4.2: Sample Strategy Flowchart