



UNITED ANALYTICAL SERVICES, INC.

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March 24, 2018

Chicago Ridge School District #127.5
6135 W. 108th Street
Chicago Ridge, Illinois 60415

UAS Project # 1898079-01

Attn: Ms. Kathy Picciolini, Assistant Business Manager

Re: **Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis
Chicago Ridge School District #127.5**

Finley Junior High School - 10835 Lombard Ave., Chicago Ridge, IL

Sample Collection Date: March 9, 2018

Dear Ms. Picciolini:

United Analytical Services, Inc. (UAS) prepared this executive summary of findings for the drinking water sampling performed at Chicago Ridge School District #127.5's Finley Junior High School located at 10835 Lombard Avenue, Chicago Ridge, Illinois on March 9, 2018. The current testing involved collecting drinking water samples from seventeen (17) of the drinking water sources/locations throughout the school facility that are accessible to the Students, Faculty and Staff, with subsequent laboratory analysis for the presence of Lead. Including 1st draw and 2nd draw samples at each of the drinking water sources, a total of thirty-four (34) water samples were collected during this current assessment.

It should be noted that the current sampling at this Chicago Ridge School District #127.5 school facility included the IDPH required drinking water sources within facility, as well as several non-required drinking water and/or potable water sources within the school building.

The laboratory results reveal that the reported concentrations for thirty-four (34) of the thirty-four (34) drinking water samples collected resulted in concentrations below the IDPH public notification/communication target level of 5 µg Lead/L. Zero (0) of the samples revealed a drinking water concentration above the IDPH public notification/communication target level of 5 µg Lead/L.

SAMPLING REQUIREMENTS AND METHODOLOGY -

The current sampling and reporting followed the Illinois Public Act 99-0922 requirements. Following the IDPH requirements and reporting, it should be noted that UAS performed and provided the services noted below, including, but not limited to, the following:

1. The current testing and analysis was limited only to those seventeen (17) locations/sources noted.
2. UAS provided fixture/source identifiers for each of the sources/locations identified with alphanumeric identifiers for each fixture and sample.
3. UAS utilized sampling media (250 mL sample bottles) obtained from a State of Illinois Environmental Protection Agency (IEPA) accredited laboratory, labeled all sampling bottles with the alphanumeric identifiers and prepared a Chain of Custody form for samples.
4. The IEPA accredited laboratory that UAS utilized to perform the laboratory analysis for this project was Pace Analytical Services, LLC (Pace) of Minneapolis, MN. Pace is recognized by the IEPA as NELAP-Recognized Environmental Laboratory for Lead in Drinking Water. A copy of the SLI accreditation for the approved method is attached. UAS confirmed with SLI, that the IDPH required minimum reporting limit (MRL) and significant digits requested by IDPH could be utilized and documented. The MRL identified by IDPH, and utilized for this assessment was 2.00 µg Lead/L, or lower.
5. Following confirmation from Chicago Ridge School District #127.5 (S.D. #127.5) that each of the target drinking water sources/systems had been allowed a mandated stagnation period of eight (8) to eighteen (18) hours, UAS collected the required 1st Draw and 2nd Draw (30 second flush) drinking water samples from each drinking water fixture/source identified by S.D. #127.5. S.D. #127.5 reported that the last use of any of the sources/fixtures in the school was 7:00 p.m. on March 8, 2018, following a day of typical school occupancy and usage within the facility. The sample collection by UAS began at 4:00 a.m. on March 9, 2018 and was completed prior to any water use within the building.
6. UAS completed and compiled Chain of Custody forms for the school building samples.
7. UAS submitted the samples to Pace following strict Chain of Custody protocols.
8. UAS compiled this final summary report with results for this school using IDPH's guidance for reporting, data and information spreadsheet to ensure consistency and reliability.
9. All sampling, documentation and reporting was performed under the direct supervision of an Illinois Department of Public Health (IDPH) licensed Lead Inspector/Risk Assessor.

IDPH REPORTING & PUBLIC NOTIFICATION -

As required/applicable, IDPH Reporting and Public Notification requirements shall be the responsibility of Chicago Ridge School District #127.5. Please note the following: Illinois Public Act 099-0922: Within seven (7) days of receipt of these test results, the district/school must email all test results to IDPH. If any of the samples taken in the school exceed 5 parts per billion (µg/L), the school district or chief school administrator, or the designee of the school district or chief school administrator, shall promptly provide an individual notification of the sampling results, via written or electronic communication, to the parents or legal guardians of all enrolled students and include the following information: the corresponding sampling location within the school building and the United States Environmental Protection Agency's website for information about lead in drinking water. If any of the samples taken at the school are at or below 5 parts per billion (µg/L), notification may be made by posting on the schools website.

TEST RESULTS / SUMMARY OF FINDINGS-

The test results are noted in the attached Spreadsheet and Analytical Laboratory Reports. The current testing and analysis was limited only to those seventeen (17) locations/sources noted. Review of the current testing laboratory data reveals the following:

The results from sixteen (16) of the seventeen (17) locations/sources revealed concentrations at or below the IDPH mitigation strategies lower limit of 2 ppb AND below the IDPH public notification/communication target level of 5 µg Lead/L.

One (1) of the seventeen (17) locations/sources reported a concentration above the IDPH mitigation strategies lower limit of 2 ppb, but below the IDPH public notification/communication target level of 5 µg Lead/L.

Zero (0) of the fifteen (15) locations/sources revealed a drinking water concentration above the IDPH public notification/communication target level of 5 µg Lead/L.

Pursuant to Public Act 99-0922, the Illinois Plumbing Licensing Law (225 ILCS 320/35.5), the IDPH is required to provide guidance to schools concerning mitigation of hazards discovered by testing for lead in water. While Section 35.5 does not require mitigation, IDPH is requiring the mitigation strategies and requirements contained in their Guidance Document for Mitigating Lead in Schools (copy attached) to be followed for all plumbing fixtures identified with any level of lead. IDPH further notes that mitigation strategies should continue until subsequent testing indicates no lead is present in water.

RECOMMENDATIONS -

At this time, UAS recommends the following:

1. Along with their standard water programs, Chicago Ridge School District #127.5 should follow the IDPH reporting requirements, as well as the mitigation strategies and requirements contained in their Guidance Document for Mitigating Lead in Schools (copy attached) for the sources, locations and fixtures that were identified with lead greater than 2 parts per billion (µg/L). IDPH further notes that mitigation strategies should continue until subsequent testing indicates no lead (<2.00 ppb) is present in water. While none were identified, it should be noted that any/all sources, locations and fixtures that are identified with lead of 5 parts per billion (µg/L) or greater should be taken “off-line”, either permanently, or until such time that mitigation and subsequent testing demonstrate that lead levels are within acceptable IDPH limits
2. As applicable, Chicago Ridge School District #127.5 should provide this report and results to IDPH in accordance with Illinois Public Act 099-0922.
3. Pursuant to Public Act 99-0922, the Illinois Plumbing Licensing Law (225 ILCS 320/35.5), the IDPH is required to provide guidance to schools concerning mitigation of hazards discovered by testing for lead in water. While Section 35.5 does not require mitigation, IDPH is requiring the mitigation strategies and requirements contained in their Guidance Document for Mitigating Lead in Schools (copy attached) to be followed for all plumbing fixtures identified with any level

Ms. Kathy Picciolini, Assistant Business Manager
Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis
Chicago Ridge School District #127.5
Finley Junior High School - 10835 Lombard Ave., Chicago Ridge, IL

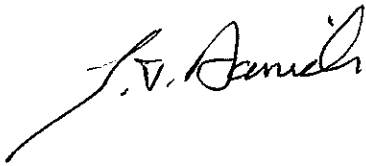
March 24, 2018

Page – 4 –

of lead (>2.00 ppb). IDPH further notes that mitigation strategies should continue until subsequent testing indicates no lead (i.e. <2.00 ppb) is present in water.

Thank you for the continued opportunity to be of service to Chicago Ridge School District #127.5. 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
Lead Risk Assessor (IL 001047)

attachments: IDPH Spreadsheet Summary of Lead in Drinking Water
March 20, 2018 Laboratory Report & COCs
IDPH Mitigation Strategies
Pace Laboratory Accreditation

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

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

March 20, 2018

Mr. Thad Daniels
United Analytical Services, Inc
1429 Centre Circle Drive
Downers Grove, IL 60515

RE: Project: 1898079-01 S.D. #127.5-Finley
Pace Project No.: 10423949

Dear Mr. Daniels:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Hunter
sylvia.hunter@pacelabs.com
1(612)607-1700
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 1898079-01 S.D. #127.5-Finley
Pace Project No.: 10423949

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 1898079-01 S.D. #127.5-Finley
Pace Project No.: 10423949

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10423949001	#FJH-01a Tall WF Admin Bldg	Water	03/09/18 04:00	03/14/18 11:00
10423949002	#FJH-01b Tall WF Admin Bldg	Water	03/09/18 04:00	03/14/18 11:00
10423949003	#FJH-02a WF near 424 Tall	Water	03/09/18 04:00	03/14/18 11:00
10423949004	#FJH-02b WF near 424 Tall	Water	03/09/18 04:00	03/14/18 11:00
10423949005	#FJH-03a WF near 424 Short	Water	03/09/18 04:00	03/14/18 11:00
10423949006	#FJH-03b WF near 424 Short	Water	03/09/18 04:00	03/14/18 11:00
10423949007	#FJH-04a Kitchen Sink Left	Water	03/09/18 04:00	03/14/18 11:00
10423949008	#FJH-04b Kitchen Sink Left	Water	03/09/18 04:00	03/14/18 11:00
10423949009	#FJH-05a Kitchen Sink Middle	Water	03/09/18 04:00	03/14/18 11:00
10423949010	#FJH-05b Kitchen Sink Middle	Water	03/09/18 04:00	03/14/18 11:00
10423949011	#FJH-06a Kitchen Sink Right	Water	03/09/18 04:00	03/14/18 11:00
10423949012	#FJH-06b Kitchen Sink Right	Water	03/09/18 04:00	03/14/18 11:00
10423949013	#FJH-07a WF Near 422 East	Water	03/09/18 04:00	03/14/18 11:00
10423949014	#FJH-07b WF Near 422 East	Water	03/09/18 04:00	03/14/18 11:00
10423949015	#FJH-08a WF Near 422 West	Water	03/09/18 04:00	03/14/18 11:00
10423949016	#FJH-08b WF Near 422 West	Water	03/09/18 04:00	03/14/18 11:00
10423949017	#FJH-09a WF Near 410 West	Water	03/09/18 04:00	03/14/18 11:00
10423949018	#FJH-09b WF Near 410 West	Water	03/09/18 04:00	03/14/18 11:00
10423949019	#FJH-10a WF Near 410 East	Water	03/09/18 04:00	03/14/18 11:00
10423949020	#FJH-10b WF Near 410 West	Water	03/09/18 04:00	03/14/18 11:00
10423949021	#FJH-11a WF Near Library South	Water	03/09/18 04:00	03/14/18 11:00
10423949022	#FJH-11b WF Near Library South	Water	03/09/18 04:00	03/14/18 11:00
10423949023	#FJH-12a WF Near Library North	Water	03/09/18 04:00	03/14/18 11:00
10423949024	#FJH-12b WF Near Library North	Water	03/09/18 04:00	03/14/18 11:00
10423949025	#FJH-13a Teacher's Lounge Sink	Water	03/09/18 04:00	03/14/18 11:00
10423949026	#FJH-13b Teacher's Lounge Sink	Water	03/09/18 04:00	03/14/18 11:00
10423949027	#FJH-14a Nurse's Office Cooler	Water	03/09/18 04:00	03/14/18 11:00
10423949028	#FJH-14b Nurse's Office Cooler	Water	03/09/18 04:00	03/14/18 11:00
10423949029	#FJH-15a Music Room Sink	Water	03/09/18 04:00	03/14/18 11:00
10423949030	#FJH-15b Music Room Sink	Water	03/09/18 04:00	03/14/18 11:00
10423949031	#FJH-16a Art Room Sink	Water	03/09/18 04:00	03/14/18 11:00
10423949032	#FJH-16b Art Room Sink	Water	03/09/18 04:00	03/14/18 11:00
10423949033	#FJH-17a Custodian's Office Si	Water	03/09/18 04:00	03/14/18 11:00
10423949034	#FJH-17b Custodian's Office Si	Water	03/09/18 04:00	03/14/18 11:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10423949001	#FJH-01a Tall WF Admin Bldg	EPA 200.8	WBS	1	PASI-M
10423949002	#FJH-01b Tall WF Admin Bldg	EPA 200.8	WBS	1	PASI-M
10423949003	#FJH-02a WF near 424 Tall	EPA 200.8	WBS	1	PASI-M
10423949004	#FJH-02b WF near 424 Tall	EPA 200.8	WBS	1	PASI-M
10423949005	#FJH-03a WF near 424 Short	EPA 200.8	WBS	1	PASI-M
10423949006	#FJH-03b WF near 424 Short	EPA 200.8	WBS	1	PASI-M
10423949007	#FJH-04a Kitchen Sink Left	EPA 200.8	WBS	1	PASI-M
10423949008	#FJH-04b Kitchen Sink Left	EPA 200.8	WBS	1	PASI-M
10423949009	#FJH-05a Kitchen Sink Middle	EPA 200.8	WBS	1	PASI-M
10423949010	#FJH-05b Kitchen Sink Middle	EPA 200.8	WBS	1	PASI-M
10423949011	#FJH-06a Kitchen Sink Right	EPA 200.8	WBS	1	PASI-M
10423949012	#FJH-06b Kitchen Sink Right	EPA 200.8	WBS	1	PASI-M
10423949013	#FJH-07a WF Near 422 East	EPA 200.8	WBS	1	PASI-M
10423949014	#FJH-07b WF Near 422 East	EPA 200.8	WBS	1	PASI-M
10423949015	#FJH-08a WF Near 422 West	EPA 200.8	WBS	1	PASI-M
10423949016	#FJH-08b WF Near 422 West	EPA 200.8	WBS	1	PASI-M
10423949017	#FJH-09a WF Near 410 West	EPA 200.8	WBS	1	PASI-M
10423949018	#FJH-09b WF Near 410 West	EPA 200.8	WBS	1	PASI-M
10423949019	#FJH-10a WF Near 410 East	EPA 200.8	WBS	1	PASI-M
10423949020	#FJH-10b WF Near 410 West	EPA 200.8	WBS	1	PASI-M
10423949021	#FJH-11a WF Near Library South	EPA 200.8	WBS	1	PASI-M
10423949022	#FJH-11b WF Near Library South	EPA 200.8	WBS	1	PASI-M
10423949023	#FJH-12a WF Near Library North	EPA 200.8	WBS	1	PASI-M
10423949024	#FJH-12b WF Near Library North	EPA 200.8	WBS	1	PASI-M
10423949025	#FJH-13a Teacher's Lounge Sink	EPA 200.8	WBS	1	PASI-M
10423949026	#FJH-13b Teacher's Lounge Sink	EPA 200.8	WBS	1	PASI-M
10423949027	#FJH-14a Nurse's Office Cooler	EPA 200.8	WBS	1	PASI-M
10423949028	#FJH-14b Nurse's Office Cooler	EPA 200.8	WBS	1	PASI-M
10423949029	#FJH-15a Music Room Sink	EPA 200.8	WBS	1	PASI-M
10423949030	#FJH-15b Music Room Sink	EPA 200.8	WBS	1	PASI-M
10423949031	#FJH-16a Art Room Sink	EPA 200.8	WBS	1	PASI-M
10423949032	#FJH-16b Art Room Sink	EPA 200.8	WBS	1	PASI-M
10423949033	#FJH-17a Custodian's Office Si	EPA 200.8	WBS	1	PASI-M
10423949034	#FJH-17b Custodian's Office Si	EPA 200.8	WBS	1	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-01a Tall WF Admin Bldg Lab ID: 10423949001 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:21	7439-92-1	

Sample: #FJH-01b Tall WF Admin Bldg Lab ID: 10423949002 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.12	ug/L	0.10	0.010	1		03/19/18 16:37	7439-92-1	

Sample: #FJH-02a WF near 424 Tall Lab ID: 10423949003 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.15	ug/L	0.10	0.010	1		03/19/18 16:38	7439-92-1	

Sample: #FJH-02b WF near 424 Tall Lab ID: 10423949004 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.15	ug/L	0.10	0.010	1		03/19/18 16:39	7439-92-1	

Sample: #FJH-03a WF near 424 Short Lab ID: 10423949005 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.18	ug/L	0.10	0.010	1		03/19/18 16:41	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-03b WF near 424 Short Lab ID: 10423949006 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.16	ug/L	0.10	0.010	1		03/19/18 16:42	7439-92-1	

Sample: #FJH-04a Kitchen Sink Left Lab ID: 10423949007 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.14	ug/L	0.10	0.010	1		03/19/18 16:44	7439-92-1	

Sample: #FJH-04b Kitchen Sink Left Lab ID: 10423949008 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:45	7439-92-1	

Sample: #FJH-05a Kitchen Sink Middle Lab ID: 10423949009 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:46	7439-92-1	

Sample: #FJH-05b Kitchen Sink Middle Lab ID: 10423949010 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:48	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-06a Kitchen Sink Right Lab ID: 10423949011 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:53	7439-92-1	

Sample: #FJH-06b Kitchen Sink Right Lab ID: 10423949012 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:49	7439-92-1	

Sample: #FJH-07a WF Near 422 East Lab ID: 10423949013 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.14	ug/L	0.10	0.010	1		03/19/18 16:56	7439-92-1	

Sample: #FJH-07b WF Near 422 East Lab ID: 10423949014 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:58	7439-92-1	

Sample: #FJH-08a WF Near 422 West Lab ID: 10423949015 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	ND	ug/L	0.10	0.010	1		03/19/18 16:59	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-08b WF Near 422 West Lab ID: 10423949016 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.22	ug/L	0.10	0.010	1		03/19/18 17:00	7439-92-1	

Sample: #FJH-09a WF Near 410 West Lab ID: 10423949017 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 17:02	7439-92-1	

Sample: #FJH-09b WF Near 410 West Lab ID: 10423949018 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.23	ug/L	0.10	0.010	1		03/19/18 17:03	7439-92-1	

Sample: #FJH-10a WF Near 410 East Lab ID: 10423949019 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 17:05	7439-92-1	

Sample: #FJH-10b WF Near 410 West Lab ID: 10423949020 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 17:06	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-11a WF Near Library South Lab ID: 10423949021 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.14	ug/L	0.10	0.010	1		03/19/18 15:10	7439-92-1	

Sample: #FJH-11b WF Near Library South Lab ID: 10423949022 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.26	ug/L	0.10	0.010	1		03/19/18 15:16	7439-92-1	

Sample: #FJH-12a WF Near Library North Lab ID: 10423949023 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.33	ug/L	0.10	0.010	1		03/19/18 15:18	7439-92-1	

Sample: #FJH-12b WF Near Library North Lab ID: 10423949024 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.37	ug/L	0.10	0.010	1		03/19/18 15:20	7439-92-1	

Sample: #FJH-13a Teacher's Lounge Sink Lab ID: 10423949025 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical Method: EPA 200.8							
Lead	0.12	ug/L	0.10	0.010	1		03/19/18 15:21	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-13b Teacher's Lounge Sink Lab ID: 10423949026 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 15:28	7439-92-1	

Sample: #FJH-14a Nurse's Office Cooler Lab ID: 10423949027 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 15:29	7439-92-1	

Sample: #FJH-14b Nurse's Office Cooler Lab ID: 10423949028 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 15:31	7439-92-1	

Sample: #FJH-15a Music Room Sink Lab ID: 10423949029 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 15:33	7439-92-1	

Sample: #FJH-15b Music Room Sink Lab ID: 10423949030 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 15:34	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Sample: #FJH-16a Art Room Sink Lab ID: 10423949031 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	ND	ug/L	0.10	0.010	1		03/19/18 15:36	7439-92-1	

Sample: #FJH-16b Art Room Sink Lab ID: 10423949032 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	3.7	ug/L	0.10	0.010	1		03/19/18 15:38	7439-92-1	

Sample: #FJH-17a Custodian's Office Si Lab ID: 10423949033 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.16	ug/L	0.10	0.010	1		03/19/18 15:40	7439-92-1	

Sample: #FJH-17b Custodian's Office Si Lab ID: 10423949034 Collected: 03/09/18 04:00 Received: 03/14/18 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW Analytical Method: EPA 200.8									
Lead	0.39	ug/L	0.10	0.010	1		03/19/18 15:41	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

QC Batch: 527841 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
 Associated Lab Samples: 10423949001, 10423949002, 10423949003, 10423949004, 10423949005, 10423949006, 10423949007,
 10423949008, 10423949009, 10423949010, 10423949011, 10423949012, 10423949013, 10423949014,
 10423949015, 10423949016, 10423949017, 10423949018, 10423949019, 10423949020

METHOD BLANK: 2864569 Matrix: Water
 Associated Lab Samples: 10423949001, 10423949002, 10423949003, 10423949004, 10423949005, 10423949006, 10423949007,
 10423949008, 10423949009, 10423949010, 10423949011, 10423949012, 10423949013, 10423949014,
 10423949015, 10423949016, 10423949017, 10423949018, 10423949019, 10423949020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	0.010	03/19/18 16:20	

LABORATORY CONTROL SAMPLE: 2864570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	93.2	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865617 2865618

Parameter	Units	10423949001		2865618		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Lead	ug/L	ND	100	100	94.4	95.3	94	95	70-130	1	20

MATRIX SPIKE SAMPLE: 2865619

Parameter	Units	10423949011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	91.0	91	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

QC Batch: 527842 Analysis Method: EPA 200.8
 QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, Drinking Water
 Associated Lab Samples: 10423949021, 10423949022, 10423949023, 10423949024, 10423949025, 10423949026, 10423949027, 10423949028, 10423949029, 10423949030, 10423949031, 10423949032, 10423949033, 10423949034

METHOD BLANK: 2864576 Matrix: Water
 Associated Lab Samples: 10423949021, 10423949022, 10423949023, 10423949024, 10423949025, 10423949026, 10423949027, 10423949028, 10423949029, 10423949030, 10423949031, 10423949032, 10423949033, 10423949034

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	ND	0.10	0.010	03/19/18 15:08	

LABORATORY CONTROL SAMPLE: 2864577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	101	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2865575 2865576

Parameter	Units	10423949021		2865576		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Lead	ug/L	0.14	100	100	100	100	100	70-130	0	20	

MATRIX SPIKE SAMPLE: 2865577

Parameter	Units	10423949031 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	ND	100	94.0	94	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 1898079-01 S.D. #127.5-Finley
Pace Project No.: 10423949

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
ND - Not Detected at or above adjusted reporting limit.
TNTC - Too Numerous To Count
J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
MDL - Adjusted Method Detection Limit.
PQL - Practical Quantitation Limit.
RL - Reporting Limit.
S - Surrogate
1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
LCS(D) - Laboratory Control Sample (Duplicate)
MS(D) - Matrix Spike (Duplicate)
DUP - Sample Duplicate
RPD - Relative Percent Difference
NC - Not Calculable.
SG - Silica Gel - Clean-Up
U - Indicates the compound was analyzed for, but not detected.
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1898079-01 S.D. #127.5-Finley
 Pace Project No.: 10423949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10423949001	#FJH-01a Tall WF Admin Bldg	EPA 200.8	527841		
10423949002	#FJH-01b Tall WF Admin Bldg	EPA 200.8	527841		
10423949003	#FJH-02a WF near 424 Tall	EPA 200.8	527841		
10423949004	#FJH-02b WF near 424 Tall	EPA 200.8	527841		
10423949005	#FJH-03a WF near 424 Short	EPA 200.8	527841		
10423949006	#FJH-03b WF near 424 Short	EPA 200.8	527841		
10423949007	#FJH-04a Kitchen Sink Left	EPA 200.8	527841		
10423949008	#FJH-04b Kitchen Sink Left	EPA 200.8	527841		
10423949009	#FJH-05a Kitchen Sink Middle	EPA 200.8	527841		
10423949010	#FJH-05b Kitchen Sink Middle	EPA 200.8	527841		
10423949011	#FJH-06a Kitchen Sink Right	EPA 200.8	527841		
10423949012	#FJH-06b Kitchen Sink Right	EPA 200.8	527841		
10423949013	#FJH-07a WF Near 422 East	EPA 200.8	527841		
10423949014	#FJH-07b WF Near 422 East	EPA 200.8	527841		
10423949015	#FJH-08a WF Near 422 West	EPA 200.8	527841		
10423949016	#FJH-08b WF Near 422 West	EPA 200.8	527841		
10423949017	#FJH-09a WF Near 410 West	EPA 200.8	527841		
10423949018	#FJH-09b WF Near 410 West	EPA 200.8	527841		
10423949019	#FJH-10a WF Near 410 East	EPA 200.8	527841		
10423949020	#FJH-10b WF Near 410 West	EPA 200.8	527841		
10423949021	#FJH-11a WF Near Library South	EPA 200.8	527842		
10423949022	#FJH-11b WF Near Library South	EPA 200.8	527842		
10423949023	#FJH-12a WF Near Library North	EPA 200.8	527842		
10423949024	#FJH-12b WF Near Library North	EPA 200.8	527842		
10423949025	#FJH-13a Teacher's Lounge Sink	EPA 200.8	527842		
10423949026	#FJH-13b Teacher's Lounge Sink	EPA 200.8	527842		
10423949027	#FJH-14a Nurse's Office Cooler	EPA 200.8	527842		
10423949028	#FJH-14b Nurse's Office Cooler	EPA 200.8	527842		
10423949029	#FJH-15a Music Room Sink	EPA 200.8	527842		
10423949030	#FJH-15b Music Room Sink	EPA 200.8	527842		
10423949031	#FJH-16a Art Room Sink	EPA 200.8	527842		
10423949032	#FJH-16b Art Room Sink	EPA 200.8	527842		
10423949033	#FJH-17a Custodian's Office Si	EPA 200.8	527842		
10423949034	#FJH-17b Custodian's Office Si	EPA 200.8	527842		

REPORT OF LABORATORY ANALYSIS

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WO#: 10423949



10423949

CHAIN-OF-CUSTODY / Analytical Request Doc
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Page: 1 Of 3

Section A
 Required Client Information:
 Company: United Analytical Services, Inc. (UAS)
 Address: 1429 Centre Circle Drive
 Downers Grove, Illinois 60515
 Email: tdaniels@uas1.com
 Phone: 630-691-8271 Fax: 630-691-1819
 Requested Due Date: Standard TAT

Section B
 Required Project Information:
 Report To: Thad Daniels
 Copy To:
 Purchase Order #:
 Project Name: S.D. #127.5 - Finley Junior High School
 Project #: 1898079-01

Section C
 Invoice Information:
 Attention: Same
 Company Name: Same
 Address: Same
 PO Box:
 PO Box Project Manager:
 PO Box Profile #:

Regulatory/Agency: IDPH
 State/Education: IL

ITEM #	MATRIX CODE (see valid codes to left)	MATRIX CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyzers Test	Residual Chlorine (Y/N)	Received on	Temp in C	Samples (Y/N)	Cooler (Y/N)	Sealed (Y/N)	Quoted (Y/N)	
			START DATE	END DATE													
1	DW/G	DW/G	3/9/2018	4:00a.m.	1	X	None	X									
2	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
3	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
4	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
5	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
6	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
7	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
8	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
9	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
10	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
11	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									
12	DW/G	DW/G	3/9/2018	4:00a.m.	1	X		X									

RELINQUISH BY / AFFILIATION
 DATE: 3/12/18 TIME: 1145
 SIGNATURE: *Keith Daniels*

ACCEPTED BY / AFFILIATION
 DATE: 3/14/18 TIME: 1100
 SIGNATURE: *Thad Daniels*

ADDITIONAL COMMENTS:
 Water Last Used in School Building on: March 8, 2018 at 7:00 p.m.

SAMPLER NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Keith Daniels / Thad Daniels
 SIGNATURE of SAMPLER: *Thad Daniels*
 DATE Signed: 3/9/18



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 Of 3

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	United Analytical Services, Inc. (UAS)	Report To:	Thad Daniels	Attention:	Same
Address:	1429 Centre Circle Drive Downers Grove, Illinois 60515	Copy To:		Company Name:	Same
Email:	tdaniels@uas1.com	Purchase Order #:		Address:	Same
Phone:	630-691-8271	Project Name:	S.D. #127.5 - Finley Junior High School	Trace Project Manager:	
Requested Due Date:	Standard TAT	Project #:	1898079-01	Trace Profile #:	
Regulatory/Agency:		IDPH		State/Location:	
Regulatory/Agency:		IDPH		IL	

ITEM #	MATRIX CODE	MATRIX	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Residual Chlorine (Y/N)	Received on	TEMP in C	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
				START DATE	END DATE										
1	DW/G	Drinking Water	DW/G	3/9/2018	4:00a.m.	1	X	None	X						
2	DW/G	Waste Water	DW/G	3/9/2018	4:00a.m.	1	X		X						
3	DW/G	Product	DW/G	3/9/2018	4:00a.m.	1	X		X						
4	DW/G	Soil/Solid	DW/G	3/9/2018	4:00a.m.	1	X		X						
5	DW/G	Oil	DW/G	3/9/2018	4:00a.m.	1	X		X						
6	DW/G	Wipe	DW/G	3/9/2018	4:00a.m.	1	X		X						
7	DW/G	Air	DW/G	3/9/2018	4:00a.m.	1	X		X						
8	DW/G	Other	DW/G	3/9/2018	4:00a.m.	1	X		X						
9	DW/G	Tissue	DW/G	3/9/2018	4:00a.m.	1	X		X						
10	DW/G		DW/G	3/9/2018	4:00a.m.	1	X		X						
11	DW/G		DW/G	3/9/2018	4:00a.m.	1	X		X						
12	DW/G		DW/G	3/9/2018	4:00a.m.	1	X		X						

RELINQUISHED DATE	3/12/18	TIME	1145
ACCEPTED BY / APPLICATION	Keith Jarvis / IDPH	DATE	3/14/18
TIME	1100	TEMP in C	6.6
RECEIVED BY / APPLICATION	Keith Jarvis / IDPH	DATE	3/14/18
TIME	1100	TEMP in C	6.6
RECEIVED BY / APPLICATION	Keith Jarvis / IDPH	DATE	3/14/18
TIME	1100	TEMP in C	6.6

Water Last Used in School Building on: March 5, 2018 at 7:00 p.m.

PRINT Name of SAMPLER: Keith Jarvis / Thad Daniels

SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 3/9/18



CHAIN-OF-CUSTODY / Analytical Request Document

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 Requested Due Date: Standard TAT

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 Required Project Information:
 Report To: Thad Daniels
 Copy To:
 Project Name: S.D. #127.5 - Finley Junior High School
 Project #: 1838079-01

Section C
 Invoice Information:
 Attention: Same
 Company Name: Same
 Address: Same
 Peace Project Manager:
 Peace Profile #:

Regulatory Agency: IDPH
 State/Location: IL


ITEM #	MATRIX CODE	MATRIX	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analytes Test	Residual Chlorine (Y/N)	Requested Analysis: Filtered (Y/N)
				START DATE	END DATE						
1	DW G	Drinking Water	DW G	3/9/2018	4:00a.m.		1	X			025
2	DW G	Water	DW G	3/9/2018	4:00a.m.		1	X			026
3	DW G	Waste Water	DW G	3/9/2018	4:00a.m.		1	X			027
4	DW G	Product	DW G	3/9/2018	4:00a.m.		1	X			028
5	DW G	Solid/Build	DW G	3/9/2018	4:00a.m.		1	X			029
6	DW G	Oil	DW G	3/9/2018	4:00a.m.		1	X			030
7	DW G	Wipes	DW G	3/9/2018	4:00a.m.		1	X			031
8	DW G	Coax	DW G	3/9/2018	4:00a.m.		1	X			032
9	DW G	Tissue	DW G	3/9/2018	4:00a.m.		1	X			033
10	DW G		DW G	3/9/2018	4:00a.m.		1	X			034
11											
12											

ADDITIONAL COMMENTS:
 Water Last Used in School Building on: March 8, 2018 at 7:00 p.m.

REQUISITION / AFFIDAVIT:
 DATE: 3/18/18 TIME: 1145
 SIGNATURE: [Signature]
 DATE: 3/18/18 TIME: 1145
 SIGNATURE: [Signature]

SAMPLE CONDITIONS:
 Received on: 3/14/18
 Temp in C: 6.6
 Sealed: N
 Cooled: Y
 Samples Intact (Y/N): Y

SAMPLE NAME AND SIGNATURE:
 PRINT Name of SAMPLER: Keith Jarvis / Thad Daniels
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: 3/9/18

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 14Dec2017 Page 1 of 2
	Document No.: F-MN-L-213-rev.22	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt **Client Name:** United Analytical Services **Project #:** WO#: 10423949

Courier: Fed Ex Ground UPS USPS Client
 Commercial Pace Speedee Other: _____

Tracking Number: 4247 6527 7490 / 7479 / 7480

PM: SH1 **Due Date: 03/28/18**
CLIENT: UNITED ANAL

Custody Seal on Cooler/Box Present? Yes No **Seals Intact?** Yes No **Optional: Proj. Due Date:** _____ **Proj. Name:** _____

Packing Material: Bubble Wrap Bubble Bags None Other: PB **Temp Blank?** Yes No

Thermometer Used: 151401163 G87A91S5100842 **Type of ice:** Wet Blue None Dry Melted

Cooler Temp Read (°C): 6.6, 10.6, 10.7 **Cooler Temp Corrected (°C):** 6.6, 10.6, 10.7 **Biological Tissue Frozen?** Yes No N/A

Temp should be above freezing to 6°C **Correction Factor:** two **Date and Initials of Person Examining Contents:** MD 3/14/18

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No **Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?** Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>	
All containers needing acid/base preservation have been checked? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Sample # <u>1-34: 1/1</u>
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin. <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: <u>MD</u> Lot # of added preservative: <u>150720</u>
Headspace in VOA Vials (>6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____	

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** Yes No

Person Contacted: _____ **Date/Time:** _____

Comments/Resolution: _____

Project Manager Review: [Signature] **Date:** 3/16/18

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).



Document Name: Sample Condition Upon Receipt Form	Document Revised: 14Dec2017 Page 2 of 2
Document No.: F-MN-L-213-rev.22	Issuing Authority: Pace Minnesota Quality Office

SCUR Exceptions:

Workorder #:

Issue	Sample ID	Container Type/#

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH Upon Receipt	Date Preservation Adjusted	Time Preservation Adjusted	Amount of Additional Preservative Added	Lot # of Preservative Added	pH After Adjustment	Initials
1-30	HNO3	N/A	3/16/16	11:47	1 mL	150720	2.0	DK
31-34	"	"	"	11:51	1 mL	150720	"	"



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1/17/2017

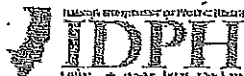
LICENSE NUMBER: 001047

Thad Daniels
1335 Fagan Road
Batavia, IL 60510

LICENSE APPROVED

IDPH recently received and reviewed your application for lead licensure. Your qualifications have been reviewed and found that you meet the requirements set forth by the Lead Poisoning Prevention Code, Section 845.125. Therefore, your application for lead licensure is now complete. Enclosed please find your lead license card. Please have this identification card with you at all times while conducting lead abatement activities.

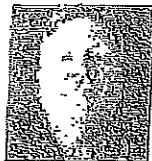
IDPH has updated its 7 - Day Notice of Commencement effective immediately. The revised document can be identified by its 9/16 revision date on the bottom left corner. Please discontinue using the old form and begin using the new form as soon as possible. The revised form is located in the same web address that the old form was located (<http://www.dph.illinois.gov/sites/default/files/forms/7-day-notice-leadabatement-mitigation-project-091916.pdf>).



**LEAD RISK
ASSESSOR LICENSE**

LEAD ID	ISSUED	EXPIRES
001047	1/17/2017	1/31/2018

Thad Daniels
1335 Fagan Road
Batavia, IL 60510



ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
RISK ASSESSOR CERTIFICATE EXPIRES

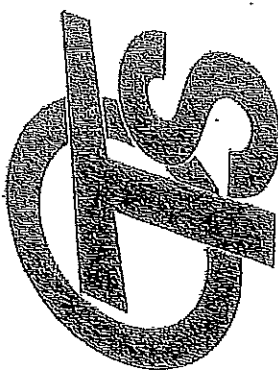
3/8/2019

This license issued under authority of the State of Illinois -Department of Public Health
This license is valid only when accompanied by a valid training course certificate
If found return to 525 W. Jefferson St Springfield, IL 62761

PROTECTING HEALTH, IMPROVING LIVES

Nationally Accredited by PHAB

2016



OCCUPATIONAL TRAINING & SUPPLY, INC.
7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900

Lead Risk Assessor Refresher

Occupational Training & Supply, Inc. certifies that
Thad Daniels

has successfully completed the Lead Risk Assessor Refresher course and has passed the competency exam with a minimum score of 70%.
This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 3/8/2016

Exam Date: 3/8/2016

Expiration Date: 3/8/2019

Certificate Number: LRAR1603080977

Kathy DeSalvo, Director



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
NELAP - RECOGNIZED
ENVIRONMENTAL LABORATORY ACCREDITATION



is hereby granted to

PACE ANALYTICAL SERVICES, LLC. - MN
1700 ELM STREET SE SUITE 200
MINNEAPOLIS, MN 55414-2485
NELAP ACCREDITED
ACCREDITATION NUMBER #200011



According to the Illinois Administrative Code, Title 35, Subtitle A, Chapter II, Part 186, ACCREDITATION OF LABORATORIES FOR DRINKING WATER, WASTEWATER AND HAZARDOUS WASTES ANALYSIS, the State of Illinois formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed below.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part 186 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part 186. Please contact the Illinois EPA Environmental Laboratory Accreditation Program (IL ELAP) to verify the laboratory's scope of accreditation and accreditation status. Accreditation by the State of Illinois is not an endorsement or a guarantee of validity of the data generated by the laboratory.

Primary Accrediting Authority: MN Department of Health, ELAP

Celeste M. Crowley

Celeste M. Crowley
 Supervisor
 Environmental Laboratory Accreditation Program

John D. South

John South
 Accreditation Officer
 Environmental Laboratory Accreditation Program

Certificate No.: 003998
 Expiration Date: 12/11/2017
 Issued On: 11/15/2016

State of Illinois
Environmental Protection Agency
Awards the Certificate of Approval

Certificate No.: 003998

Pace Analytical Services, LLC. - MN
 1700 Elm Street SE Suite 200
 Minneapolis, MN 55414-2485

FOT Name: Drinking Water, Inorganic

Method: SM4500P-E,20Ed

Matrix Type: Potable Water

Orthophosphate

Method: USEPA180.1

Matrix Type: Potable Water

Turbidity

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium

Chromium

Copper

Lead

Manganese

Mercury

Nickel

Selenium

Silver

Thallium

Zinc

Method: USEPA245.1R3.0

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Bromide

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

Method: USEPA353.2R2.0

Matrix Type: Potable Water

Nitrate

Nitrite

FOT Name: Drinking Water, Organic

Method: USEPA1613RB

Matrix Type: Potable Water

Dioxin (2,3,7,8 TCDD)

Method: USEPA524.2R4.1

Matrix Type: Potable Water

1,1,1,2-Tetrachloroethane

1,1,1-Trichloroethane

1,1,2,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1-Dichloroethane

1,1-Dichloroethene

Table 1. Mean values of the dependent variables for the three groups of participants. The values are given in the order in which they are presented in the text

Group	Age (years)	Height (cm)	Weight (kg)	VO ₂ max (l min ⁻¹)	VO ₂ max (ml kg ⁻¹ min ⁻¹)	VO ₂ max (ml min ⁻¹ m ⁻²)	VO ₂ max (ml min ⁻¹ m ⁻² 100 kg ⁻¹)
1	20.1	175.2	72.5	3.2	44.1	18.3	13.1
2	20.1	175.2	72.5	3.2	44.1	18.3	13.1
3	20.1	175.2	72.5	3.2	44.1	18.3	13.1

2.2.2. Effect of the different variables on the dependent variables

There were no significant differences between the three groups of participants for any of the dependent variables. The mean values of the dependent variables for the three groups of participants are given in Table 1.

2.2.3. Discussion

The present study was designed to compare the effect of three different methods of measuring the maximum oxygen uptake of young men. The three methods used were the direct method, the indirect method and the indirect method with a constant work rate. The results showed that the three methods gave similar results for the maximum oxygen uptake of young men.

2.2.4. Conclusion

The three methods of measuring the maximum oxygen uptake of young men gave similar results.

2.2.5. References

1. American College of Sports Medicine. *Exercise Testing and Prescription*. Philadelphia: Lea and Febiger, 1986.

2.2.6. Acknowledgements

The authors would like to thank the participants for their cooperation and the staff of the laboratory for their assistance.

2.2.7. Correspondence

Dr J. M. S. Wong, Department of Physical Education, University of Hong Kong, Pokfulam, Hong Kong.

2.2.8. References

1. American College of Sports Medicine. *Exercise Testing and Prescription*. Philadelphia: Lea and Febiger, 1986.

2.2.9. Acknowledgements

The authors would like to thank the participants for their cooperation and the staff of the laboratory for their assistance.

2.2.10. Correspondence

Dr J. M. S. Wong, Department of Physical Education, University of Hong Kong, Pokfulam, Hong Kong.



Mitigation Strategies



Guidance Document for Mitigating Lead in Schools

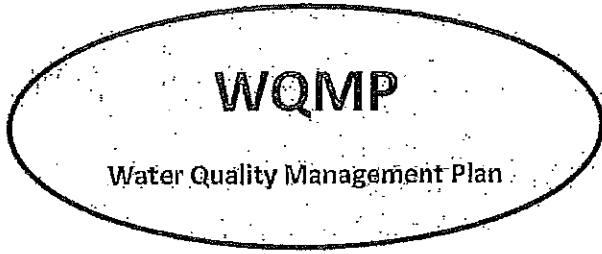


New Guidance

Pursuant to the Illinois Plumbing Licensing Law (225 ICLS 320/35.5), the Illinois Department of Public Health (IDPH) is required to provide guidance to schools concerning mitigation of hazards discovered by testing for lead in water.

While Section 35.5 does not specifically require mitigation, IDPH is requiring the mitigation strategies and requirements contained in this guidance document to be followed for all plumbing fixtures identified with any level of lead. Mitigation should continue until subsequent testing indicates no lead is present in water.

Mitigation strategies depend on many variables and schools may need to implement various and multiple steps to mitigate lead-in-water hazards. This guidance provides the most common mitigations strategies, but is not intended to be all inclusive.



Steps to an Effective Water Quality Management Plan

Regardless of lead or any other potential plumbing issues within your facility, developing an effective Water Quality Management Plan (WQMP) is essential to ensuring that safe, potable drinking water is maintained at all times.

In many cases, the internal plumbing system in schools and other large facilities is extensive, often containing hundreds, if not thousands of feet of pipe. If left unused for extended periods of time (2-3 days), the water in this pipe can become stagnant and develop internal water quality issues such as high lead concentrations and harmful bacterial growth.

An effective WQMP can help mitigate the potential for these negative water quality issues.

The steps outlined in this section are not intended to be all inclusive, since every facility and administration is different, each with their own set of individual circumstances. However, it should help you understand the general concepts of a WQMP and how you can develop your unique team to address potential water quality conditions within your facility.

Step 1

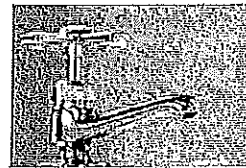
Select Your Team

Your team could include:

- Administrators and Faculty
- Facilities and Maintenance Staff
- Parents
- Students
- Water Suppliers

These individuals will be key to implementing whatever program you develop.

- In general terms, familiarize yourself with the layout of your plumbing system. Look for long pipe runs with fixtures that may be used infrequently, even when the building is occupied.



Step 2

Understand Your Facility Layout

- Obtain building plans.
- Know where your drinking fountains and food service water fixtures are located.

Step 3

Understand Your Facility Schedule

Although this step will be intuitive for facility staff, you should familiarize your team with the schedule of the facility. Questions to ask include:

- When is the facility closed for more than just one day?
 - Weekends, holidays, extended spring or summer break periods.

- Are there any particular areas of the building that are unused even when the rest of the facility is operational? These may include:
 - Gymnasiums
 - Churches or rectories
 - Childcare areas
 - Particular classroom areas or wings of the building.

Step 4

Develop Your Plan

The principal goal of your plan will be to flush an adequate amount of water through your plumbing system in order to maintain fresh (safe) drinking water at all times, in all areas of your facility. In addition, you want to do this without unnecessarily wasting water.

Flushing is the easiest method whereby fresh water may be delivered from the water main. Because lead concentrations increase the longer the water is in contact with pipes or plumbing fixtures containing lead, reducing the water age (how long water sits in the pipe) will reduce the levels of lead in water.

Note: IDPH suggests the following program guidelines be considered as minimum steps:

1. *Locate the fixtures farthest from the entry point of the water service to the building and flush them for 10 minutes each morning.*
2. *Open all fixtures used for cooking and drinking and run until you feel the water temperature get colder.*

Additional information on flushing and other remedies is available in the U.S. Environmental Protection Agency's 3Ts for Reducing Lead in Drinking Water in Schools Technical Guidance.

Schools can request help from their supplier in identifying potential lead hazards and developing mitigation strategies. The water supplier can also educate the school on topics like corrosion control and water age.

Schools on well water or non-community water systems, can request help from the Illinois Section, American Water Works Association (AWWA) or the Illinois Rural Water Association.

Your plan may likely include some if not all of these actions:

Mechanical Flushing requires the installation of devices such as valves or other similar equipment on the ends of long pipes that can be set to automatically flush at pre-determined intervals.

Licensed plumbers and engineers can help determine the type of device that should be installed and where to install the device.

Manual Flushing will likely require a variety of individuals to implement.

Faculty - Faculty members may be able to flush fixtures (sinks, drinking fountains, etc.) if they are nearby or in their classroom or work area.

Parents - Parent volunteers may be helpful in flushing fixtures in general areas or in organizing student volunteers to help with that job.

Students - Faculty and school administrators often are interested in providing students with additional responsibilities outside the classroom. Utilizing students to assist in the implementation of your WQMP can help teach them responsibility and better understand the importance of safe drinking water.

- **Develop a Student Water Patrol**

Select a handful of students whom you believe are deserving of responsibility.

If you have a public water utility, engage those professionals to explain the importance of safe drinking water and how the students can help protect their classmates by participating in a Student Water Patrol.

Step 5

Implement Your Plan

Remove the problem fixture(s) from service

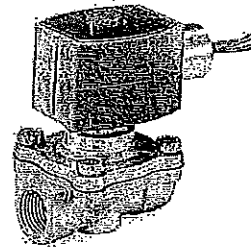
Immediately upon learning that a fixture has tested positive for lead, it should be removed from service. *Install signs, remove handles or bag the device to prevent use until it can be addressed.*



Once the fixture has been addressed, validation testing is required and should be conducted in the same manner in which the initial testing was performed.

Persistent Problem Fixtures

- For sources of water that are not corrected by the steps outlined previously, infrastructure mitigation strategies may be required.
- Source investigation involves sequential sampling of the problem fixture to determine the relative location of the source of lead. Sequential sampling consists of a series of samples taken at defined time intervals from a single fixture.
- A plumbing survey, including a determination of installed plumbing materials, fixtures and length of pipes, should be developed to identify known and possible sources.
- Permanent removal of fixtures and branch plumbing should only be undertaken with the advice of a professional engineer or licensed plumber. Identified sources of lead, such as lead pipes, leaded plumbing fixtures and lead solder, should be replaced by a registered plumbing contractor with materials that do not contain lead.
- Automatic flushing valves, installed by a licensed plumber, may be implemented to ensure adequate flushing of piping systems.





Working Together ... Administration, Faculty, Students, Parents
and Water Professionals we can...

GET THE LEAD OUT !

* Illinois Section AWWA email: jdillon@isawwa.org

* Illinois Rural Water Association email: ilrwa@lrwa.org

*Questions regarding lead in schools should be directed to the:
Illinois Department of Public Health
Plumbing and Water Quality Program*

Email: dph-leadh2o@illinois.gov