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UNITED ANALYTICAL SERVICES, INC.

November 21, 2017

Park Ridge-Niles School District #64  
164 S. Prospect Avenue  
Park Ridge, Illinois 60068

**UAS Project 1798561-01**

Attn: Mr. Ron DeGeorge, Director of Building and Grounds  
**Re: Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis  
Park Ridge - Niles School District #64  
Carpenter School -  
300 N. Hamlin Avenue, Park Ridge, Illinois 60068  
October 31, 2017**

Dear Mr. DeGeorge:

United Analytical Services, Inc. (UAS) prepared this executive summary of findings for the drinking water sampling performed at Park Ridge-Niles School District #64's Carpenter School located at 300 N. Hamlin Avenue in Park Ridge, Illinois on October 31, 2017. The current testing involved collecting drinking water samples from ALL nineteen (19) 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 1<sup>st</sup> draw and 2<sup>nd</sup> draw samples at each of the drinking water sources, a total of thirty-eight (38) water samples were collected during this current assessment.

It should be noted that at the request of Park Ridge-Niles School District #64, the current sampling included the IDPH required drinking water sources within facility, as well as a number of non-required drinking water and/or potable water sources within the school building.

**The laboratory results reveal that the reported concentrations for thirty-seven (37) of the thirty-eight (38) drinking water samples resulted in concentrations below the IDPH public notification/communication target level of 5 µg Lead/L. One (1) of the thirty-eight (38) 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 nineteen (19) 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 Park Ridge-Niles School District #64 (S.D. #64) 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 1<sup>st</sup> Draw and 2<sup>nd</sup> Draw (30 second flush) drinking water samples from each drinking water fixture/source identified by S.D. #64. S.D. #64 reported that the last use of any of the sources/fixtures in the school was 8:00 p.m. on October 30, 2017, following a day of typical school occupancy and usage within the facility. The sample collection by UAS began at 4:55 a.m. on October 31, 2017 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.
10. 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, IDPH Reporting and Public Notification requirements shall be the responsibility of Park Ridge-Niles School District #64. 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 nineteen (19) locations/sources noted. Review of the current testing laboratory data reveals the following:

**The results from seventeen (17) of the nineteen (19) locations/sources revealed concentrations below both 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 nineteen (19) locations/sources reported a concentration at/above the IDPH mitigation strategies lower limit of 2 ppb, but below the IDPH public notification/communication target level of 5 µg Lead/L.**

**One (1) of the nineteen (19) 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, Park Ridge-Niles School District #64 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. The single (1) source, location and fixture that was 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. Park Ridge-Niles School District #64 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

Mr. Ron DeGeorge, Director of Building and Grounds  
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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 (i.e. <2.00 ppb) is present in water.

Thank you for the continued opportunity to be of service to Park Ridge-Niles School District #64. 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  
11/14/17 Laboratory Report & COCs  
IDPH Mitigation Strategies  
UAS' Inspector/Sample Collector License & Accreditation  
Pace Laboratory Accreditation

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

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ISBE ID	Building ID	Building Description	Sample Date	Sample Time (12 HR Clock)	Collected By	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Laboratory Name	Analytical Method	Concentration (ug/L)	Reporting Limit (ug/L)	Notes
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-01a	Office Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-01b	Office Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-02a	Office Hallway BFS	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-02b	Office Hallway BFS	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-03a	Teacher's Lounge Sink	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	3.10	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-03b	Teacher's Lounge Sink	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	2.70	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-04a	125 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-04b	125 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-05a	125 Hallway BFS	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-05b	125 Hallway BFS	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-06a	133 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-06b	133 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-07a	160 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-07b	160 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-08a	Gym Food Prep Sink	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-08b	Gym Food Prep Sink	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-09a	153 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-09b	153 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-10a	153 Hallway BFS	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-10b	153 Hallway BFS	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-11a	104 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-11b	104 Hallway DWC	WF - Water Cooler	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-12a	Classroom 104 Wash Basin	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-12b	Classroom 104 Wash Basin	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-13a	Classroom 104 Sink	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-13b	Classroom 104 Sink	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-14a	SE Gym Food Prep Sink	KS - Kitchen Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-14b	SE Gym Food Prep Sink	KS - Kitchen Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-15a	Nurse's Office Sink	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-15b	Nurse's Office Sink	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-16a	Classroom 100 Wash Basin	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-16b	Classroom 100 Wash Basin	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-17a	Classroom 100 Sink	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	<b>CS-17b</b>	<b>Classroom 100 Sink</b>	<b>S - Sink</b>	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<b>26.00</b>	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-18a	Classroom 106 Wash Basin	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-18b	Classroom 106 Wash Basin	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-19a	Classroom 106 Sink	S - Sink	10/30/2017	8:00 PM	First Draw	250	Pace Labs	EPA 200.8	<2.00	0.10	
14-016-0640-2001	CS	Carpenter Elem. Sch.	10/31/17	4:55 AM	IL 001047	CS-19b	Classroom 106 Sink	S - Sink	10/30/2017	8:00 PM	Flush	250	Pace Labs	EPA 200.8	<2.00	0.10	

R = Right

L = Left

ND = None Detected

BFS = Bottle Filling Station