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December 7, 2017

Board of Education Queen Bee School District #16 1560 Bloomingdale Road Glendale Heights, Illinois 60139 **UAS Project #1798621-01** 

Attn: Mr. Dick Mabberley, Director of Buildings and Grounds

Re: Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis

Glen Hill Elementary School -

1324 Bloomingdale Road, Glendale Heights, IL 60139

November 14, 2017

Dear Mr. Mabberley:

United Analytical Services, Inc. (UAS) prepared this executive summary of findings for the drinking water sampling performed at Queen Bee School District #16's Glen Hill Elementary School located at 1324 Bloomingdale Road in Glendale Heights, Illinois on November 14, 2017. The current testing involved collecting drinking water samples from ALL fourteen (14) 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 twenty-eight (28) water samples were collected during this current assessment.

It should be noted that the current sampling at this Queen Bee School District #16 school facility included only the IDPH required drinking water and/or potable water sources within the school building, as noted.

The laboratory results reveal that the reported concentrations for thirteen (13) of the fourteen (14) drinking water samples 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:

Mr. Dick Mabberley, Director of Buildings and Grounds Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis Queen Bee School District #16 Glen Hill Elementary School -1324 Bloomingdale Road, Glendale Heights, IL 60139

- 1. The current testing and analysis was limited only to those fourteen (14) 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 Queen Bee School District #16 (Queen Bee S.D. #16) 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 Queen Bee #16. Queen Bee S.D. #16 reported that the last use of any of the sources/fixtures in the school was 8:00 p.m. on November 13, 2017, following a day of typical school occupancy and usage within the facility. The sample collection by UAS began at 6:15 a.m. on November 14, 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 Queen Bee School District #16. 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 ( $\mu$ g/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 ( $\mu$ g/L), notification may be made by posting on the schools website.

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### 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 fourteen (14) locations/sources noted. Review of the current testing laboratory data reveals the following:

The results from thirteen (13) of the fourteen (14) locations/sources reveled 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 fourteen (14) 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.

Zero (0) of the fourteen (14) locations/sources revealed a drinking water concentration above the IDPH public notification/communication target level of 5  $\mu$ g 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, Queen Bee School District #16 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 revealed, it should be noted that any 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. Queen Bee School District #16 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. Dick Mabberley, Director of Buildings and Grounds Summary of Findings - Lead in Drinking Water Sampling & Lab Analysis Queen Bee School District #16 Glen Hill Elementary School -1324 Bloomingdale Road, Glendale Heights, IL 60139

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 Queen Bee School District #16. 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

1. V. Aml

Lead Risk Assessor (IL 001047)

attachments: IDPH Spreadsheet Summary of Lead in Drinking Water

12/06/17 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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December 06, 2017

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

RE: Project: 1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

### Dear Thad Daniels:

Enclosed are the analytical results for sample(s) received by the laboratory on November 20, 2017. 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

Sylvia Hunter

Enclosures

cc: Mr. Thad Daniels, United Analytical Services,Inc







### **CERTIFICATIONS**

Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.:

10411771

### 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

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



### **SAMPLE SUMMARY**

Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Lab ID   Sample ID   Matrix   Date Collected   Date Received	T ace T Toject No				
10411771002 GH-01b North Hallway DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771003 GH-02a North Hallway DWC Right Water 11/14/17 06:15 11/20/17 10:30 10411771005 GH-03a North Hallway DWC BFS Water 11/14/17 06:15 11/20/17 10:30 10411771006 GH-03b North Hallway DWC BFS Water 11/14/17 06:15 11/20/17 10:30 10411771006 GH-03b North Hallway DWC BFS Water 11/14/17 06:15 11/20/17 10:30 10411771007 GH-04a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771009 GH-05a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771010 GH-05b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771011 GH-05b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771012 GH-05b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771012 GH-05b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771013 GH-07a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771014 GH-07b Gymnasium Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771015 GH-08a South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-08b South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-08b South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-08b South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-09a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-09a South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-10a South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771020 GH-10a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771021 GH-10a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771022 GH-11b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13a South Entrance DWC Water 11/14/17 06:15 11/	Lab ID	Sample ID	Matrix	Date Collected	Date Received
10411771003 GH-02a North Hallway DWC Right Water 11/14/17 06:15 11/20/17 10:30 10411771005 GH-03a North Hallway DWC BFS Water 11/14/17 06:15 11/20/17 10:30 10411771006 GH-03b North Hallway DWC BFS Water 11/14/17 06:15 11/20/17 10:30 10411771007 GH-04a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771008 GH-04b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771009 GH-05a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771010 GH-05b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771011 GH-06a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771013 GH-07a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771013 GH-07a Gymnasium Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771015 GH-08a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-08b South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-08b South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-08a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-08a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-08 South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-08a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-08 South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-08 South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-108 South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-108 South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-108 South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 G	10411771001	GH-01a North Hallway DWC Left	Water	11/14/17 06:15	11/20/17 10:30
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10411771006   GH-03b North Hallway DWC   GH-04a Gymnasium Hallway DWC   11/4/17 06:15   11/20/17 10:30     10411771008   GH-04b Gymnasium Hallway DWC   11/4/17 06:15   11/20/17 10:30     10411771009   GH-05b Gymnasium Hallway DWC   2   11/4/17 06:15   11/20/17 10:30     10411771010   GH-05b Gymnasium Hallway DWC   2   11/4/17 06:15   11/20/17 10:30     10411771011   GH-06a Gymnasium Hallway DWC   2   11/4/17 06:15   11/20/17 10:30     10411771012   GH-06b Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30     10411771013   GH-07a Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30     10411771014   GH-07b Gymnasium Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30     10411771015   GH-08a South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30     10411771016   GH-08b South Hallway DWC 1   Water   11/14/17 06:15   11/20/17 10:30     10411771017   GH-09a South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30     10411771018   GH-09b South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30     10411771019   GH-10a South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30     10411771020   GH-10a South Hallway DWC 2   Water   11/14/17 06:15   11/20/17 10:30     10411771021   GH-11a South Hallway DWC 3   Water   11/14/17 06:15   11/20/17 10:30     10411771022   GH-11a South Hallway DWC 3   Water   11/14/17 06:15   11/20/17 10:30     10411771023   GH-12a South Hallway DWC 4   Water   11/14/17 06:15   11/20/17 10:30     10411771024   GH-12b South Hallway DWC 4   Water   11/14/17 06:15   11/20/17 10:30     10411771025   GH-13a South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30     10411771026   GH-13b South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30     10411771027   GH-14a South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30     10411771028   GH-14b South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30     10411771029   GH-14b South Entrance DWC Water   11/14/17 06:15   11/20/17 10:30     10411771029   GH-14b South E	10411771004	GH-02b North Hallway DWC Right	Water	11/14/17 06:15	11/20/17 10:30
10411771007 GH-04a Gymnasium Hallway DWC 11/14/17 06:15 11/20/17 10:30 GH-04b Gymnasium Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771009 GH-05a Gymnasium Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771010 GH-05b Gymnasium Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771011 GH-06a Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771012 GH-06b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 10411771013 GH-07a Gymnasium Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771014 GH-07b Gymnasium Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771015 GH-08a South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-08b South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-09a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-09a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-10a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-10a South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-10a South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-11a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-11a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-12a South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-12a South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 1041177102 GH-13a S	10411771005	GH-03a North Hallway DWC BFS	Water	11/14/17 06:15	11/20/17 10:30
10411771008   GH-04b Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30   10411771009   2 GH-05a Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30   10411771010   GH-05a Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30   10411771011   GH-06a Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30   3   10411771012   GH-06b Gymnasium Hallway DWC   Water   11/14/17 06:15   11/20/17 10:30   3   10411771013   GH-07a Gymnasium Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30   10411771014   GH-07b Gymnasium Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30   10411771015   GH-08a South Hallway DWC 1   Water   11/14/17 06:15   11/20/17 10:30   10411771016   GH-08b South Hallway DWC 1   Water   11/14/17 06:15   11/20/17 10:30   10411771016   GH-09a South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30   10411771019   GH-09a South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30   10411771019   GH-10a South Hallway BFS   Water   11/14/17 06:15   11/20/17 10:30   10411771020   GH-10a South Hallway DWC 2   Water   11/14/17 06:15   11/20/17 10:30   10411771020   GH-10a South Hallway DWC 2   Water   11/14/17 06:15   11/20/17 10:30   10411771022   GH-11a South Hallway DWC 3   Water   11/14/17 06:15   11/20/17 10:30   10411771022   GH-11a South Hallway DWC 3   Water   11/14/17 06:15   11/20/17 10:30   10411771023   GH-12a South Hallway DWC 4   Water   11/14/17 06:15   11/20/17 10:30   10411771024   GH-12a South Hallway DWC 4   Water   11/14/17 06:15   11/20/17 10:30   10411771025   GH-13a South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30   10411771026   GH-13b South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30   10411771026   GH-13b South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30   10411771026   GH-14a South Entrance DWC Left   Water   11/14/17 06:15   11/20/17 10:30   10411771026   GH-14b South Entrance DWC   Water   11/14/17 06:15   11/20/17 10:30   10411771026   GH-14b South Entrance DWC   Water   11/14/17	10411771006	GH-03b North Hallway DWC BFS	Water	11/14/17 06:15	11/20/17 10:30
10411771008         GH-04b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771009         GH-05a Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771010         GH-05b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771011         GH-06a Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771012         GH-06b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771013         GH-07a Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771014         GH-07b Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771015         GH-08a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771016         GH-08b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-11a South Hall	10411771007		Water	11/14/17 06:15	11/20/17 10:30
10411771010 2 GH-05b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 2 10411771011 GH-06b Gymnasium Hallway DWC Water 11/14/17 06:15 11/20/17 10:30 3 10411771012 GH-07b Gymnasium Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771014 GH-07b Gymnasium Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771015 GH-08a South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771016 GH-09a South Hallway DWC 1 Water 11/14/17 06:15 11/20/17 10:30 10411771017 GH-09a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771018 GH-09a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-10a South Hallway BFS Water 11/14/17 06:15 11/20/17 10:30 10411771019 GH-10a South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771020 GH-10b South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771022 GH-11a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771023 GH-12a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771023 GH-12a South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771025 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771027 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771027 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028	10411771008		Water	11/14/17 06:15	11/20/17 10:30
10411771010         GH-05b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771011         GH-06a Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771012         GH-06b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771013         GH-07a Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771014         GH-07b Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771015         GH-08a South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771016         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771024         GH-12b South Hallwa	10411771009		Water	11/14/17 06:15	11/20/17 10:30
10411771011         GH-06a Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771012         GH-06b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771013         GH-07a Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771014         GH-07b Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771015         GH-08a South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771016         GH-08b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-12b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12a South Entrance D	10411771010	GH-05b Gymnasium Hallway DWC	Water	11/14/17 06:15	11/20/17 10:30
10411771012         GH-06b Gymnasium Hallway DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771013         GH-07a Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771014         GH-07b Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771015         GH-08a South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771016         GH-08b South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10b South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771025         GH-13a South Entrance D	10411771011	GH-06a Gymnasium Hallway DWC	Water	11/14/17 06:15	11/20/17 10:30
10411771014         GH-07b Gymnasium Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771015         GH-08a South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771016         GH-08b South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771029         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12a South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771025         GH-13b South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771026         GH-13b South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771027         GH-14a South Entran	10411771012	<del>-</del>	Water	11/14/17 06:15	11/20/17 10:30
10411771015         GH-08a South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771016         GH-08b South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12a South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771025         GH-3a South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771027         GH-14a South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771028         GH-14b South Entrance DWC </td <td>10411771013</td> <td>GH-07a Gymnasium Hallway BFS</td> <td>Water</td> <td>11/14/17 06:15</td> <td>11/20/17 10:30</td>	10411771013	GH-07a Gymnasium Hallway BFS	Water	11/14/17 06:15	11/20/17 10:30
10411771016         GH-08b South Hallway DWC 1         Water         11/14/17 06:15         11/20/17 10:30           10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12a South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771024         GH-12b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771025         GH-13a South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771027         GH-14a South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771028         GH-14b South Entrance DWC<	10411771014	GH-07b Gymnasium Hallway BFS	Water	11/14/17 06:15	11/20/17 10:30
10411771017         GH-09a South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10b South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12a South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771024         GH-12b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771025         GH-13a South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771027         GH-14a South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771028         GH-14b South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30	10411771015	GH-08a South Hallway DWC 1	Water	11/14/17 06:15	11/20/17 10:30
10411771018         GH-09b South Hallway BFS         Water         11/14/17 06:15         11/20/17 10:30           10411771019         GH-10a South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771020         GH-10b South Hallway DWC 2         Water         11/14/17 06:15         11/20/17 10:30           10411771021         GH-11a South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771022         GH-11b South Hallway DWC 3         Water         11/14/17 06:15         11/20/17 10:30           10411771023         GH-12a South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771024         GH-12b South Hallway DWC 4         Water         11/14/17 06:15         11/20/17 10:30           10411771025         GH-13a South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771026         GH-13b South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771027         GH-14a South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30           10411771028         GH-14b South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30	10411771016	GH-08b South Hallway DWC 1	Water	11/14/17 06:15	11/20/17 10:30
10411771019 GH-10a South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771020 GH-10b South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771021 GH-11a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771022 GH-11b South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771023 GH-12a South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771025 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13b South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771027 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 Righ GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028	10411771017	GH-09a South Hallway BFS	Water	11/14/17 06:15	11/20/17 10:30
10411771020 GH-10b South Hallway DWC 2 Water 11/14/17 06:15 11/20/17 10:30 10411771021 GH-11a South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771022 GH-11b South Hallway DWC 3 Water 11/14/17 06:15 11/20/17 10:30 10411771023 GH-12a South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771024 GH-12b South Hallway DWC 4 Water 11/14/17 06:15 11/20/17 10:30 10411771025 GH-13a South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771026 GH-13b South Entrance DWC Left Water 11/14/17 06:15 11/20/17 10:30 10411771027 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30	10411771018	GH-09b South Hallway BFS	Water	11/14/17 06:15	11/20/17 10:30
10411771021       GH-11a South Hallway DWC 3       Water       11/14/17 06:15       11/20/17 10:30         10411771022       GH-11b South Hallway DWC 3       Water       11/14/17 06:15       11/20/17 10:30         10411771023       GH-12a South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771024       GH-12b South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771025       GH-13a South Entrance DWC Left       Water       11/14/17 06:15       11/20/17 10:30         10411771026       GH-13b South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30         10411771027       GH-14a South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30         10411771028       GH-14b South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30	10411771019	GH-10a South Hallway DWC 2	Water	11/14/17 06:15	11/20/17 10:30
10411771022       GH-11b South Hallway DWC 3       Water       11/14/17 06:15       11/20/17 10:30         10411771023       GH-12a South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771024       GH-12b South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771025       GH-13a South Entrance DWC Left       Water       11/14/17 06:15       11/20/17 10:30         10411771026       GH-13b South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30         10411771027       GH-14a South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30         10411771028       GH-14b South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30	10411771020	GH-10b South Hallway DWC 2	Water	11/14/17 06:15	11/20/17 10:30
10411771023       GH-12a South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771024       GH-12b South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771025       GH-13a South Entrance DWC Left       Water       11/14/17 06:15       11/20/17 10:30         10411771026       GH-13b South Entrance DWC Left       Water       11/14/17 06:15       11/20/17 10:30         10411771027       GH-14a South Entrance DWC Righ       Water       11/14/17 06:15       11/20/17 10:30         10411771028       GH-14b South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30	10411771021	GH-11a South Hallway DWC 3	Water	11/14/17 06:15	11/20/17 10:30
10411771024       GH-12b South Hallway DWC 4       Water       11/14/17 06:15       11/20/17 10:30         10411771025       GH-13a South Entrance DWC Left       Water       11/14/17 06:15       11/20/17 10:30         10411771026       GH-13b South Entrance DWC Left       Water       11/14/17 06:15       11/20/17 10:30         10411771027       GH-14a South Entrance DWC Righ       Water       11/14/17 06:15       11/20/17 10:30         10411771028       GH-14b South Entrance DWC       Water       11/14/17 06:15       11/20/17 10:30	10411771022	GH-11b South Hallway DWC 3	Water	11/14/17 06:15	11/20/17 10:30
10411771025         GH-13a South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771026         GH-13b South Entrance DWC Left         Water         11/14/17 06:15         11/20/17 10:30           10411771027         GH-14a South Entrance DWC Righ         Water         11/14/17 06:15         11/20/17 10:30           10411771028         GH-14b South Entrance DWC         Water         11/14/17 06:15         11/20/17 10:30	10411771023	GH-12a South Hallway DWC 4	Water	11/14/17 06:15	11/20/17 10:30
10411771026     GH-13b South Entrance DWC Left     Water     11/14/17 06:15     11/20/17 10:30       10411771027     GH-14a South Entrance DWC Righ     Water     11/14/17 06:15     11/20/17 10:30       10411771028     GH-14b South Entrance DWC     Water     11/14/17 06:15     11/20/17 10:30	10411771024	GH-12b South Hallway DWC 4	Water	11/14/17 06:15	11/20/17 10:30
10411771027 GH-14a South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30 Righ 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30	10411771025	GH-13a South Entrance DWC Left	Water	11/14/17 06:15	11/20/17 10:30
Righ 10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30	10411771026	GH-13b South Entrance DWC Left	Water	11/14/17 06:15	11/20/17 10:30
10411771028 GH-14b South Entrance DWC Water 11/14/17 06:15 11/20/17 10:30	10411771027		Water	11/14/17 06:15	11/20/17 10:30
	10411771028	GH-14b South Entrance DWC	Water	11/14/17 06:15	11/20/17 10:30



### SAMPLE ANALYTE COUNT

Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10411771001	GH-01a North Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411771002	GH-01b North Hallway DWC Left	EPA 200.8	WBS	1	PASI-M
10411771003	GH-02a North Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411771004	GH-02b North Hallway DWC Right	EPA 200.8	WBS	1	PASI-M
10411771005	GH-03a North Hallway DWC BFS	EPA 200.8	WBS	1	PASI-M
10411771006	GH-03b North Hallway DWC BFS	EPA 200.8	WBS	1	PASI-M
10411771007	GH-04a Gymnasium Hallway DWC 1	EPA 200.8	WBS	1	PASI-M
10411771008	GH-04b Gymnasium Hallway DWC 1	EPA 200.8	WBS	1	PASI-M
10411771009	GH-05a Gymnasium Hallway DWC 2	EPA 200.8	WBS	1	PASI-M
10411771010	GH-05b Gymnasium Hallway DWC 2	EPA 200.8	WBS	1	PASI-M
10411771011	GH-06a Gymnasium Hallway DWC 3	EPA 200.8	WBS	1	PASI-M
10411771012	GH-06b Gymnasium Hallway DWC 3	EPA 200.8	WBS	1	PASI-M
10411771013	GH-07a Gymnasium Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411771014	GH-07b Gymnasium Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411771015	GH-08a South Hallway DWC 1	EPA 200.8	WBS	1	PASI-M
10411771016	GH-08b South Hallway DWC 1	EPA 200.8	WBS	1	PASI-M
10411771017	GH-09a South Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411771018	GH-09b South Hallway BFS	EPA 200.8	WBS	1	PASI-M
10411771019	GH-10a South Hallway DWC 2	EPA 200.8	WBS	1	PASI-M
10411771020	GH-10b South Hallway DWC 2	EPA 200.8	WBS	1	PASI-M
10411771021	GH-11a South Hallway DWC 3	EPA 200.8	WBS	1	PASI-M
10411771022	GH-11b South Hallway DWC 3	EPA 200.8	WBS	1	PASI-M
10411771023	GH-12a South Hallway DWC 4	EPA 200.8	WBS	1	PASI-M
10411771024	GH-12b South Hallway DWC 4	EPA 200.8	WBS	1	PASI-M
10411771025	GH-13a South Entrance DWC Left	EPA 200.8	WBS	1	PASI-M
10411771026	GH-13b South Entrance DWC Left	EPA 200.8	WBS	1	PASI-M
10411771027	GH-14a South Entrance DWC Righ	EPA 200.8	WBS	1	PASI-M
10411771028	GH-14b South Entrance DWC Righ	EPA 200.8	WBS	1	PASI-M



Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Date: 12/06/2017 09:01 AM

Sample:	GH-01a North Hallway DWC Left	Lab ID:	10411771001	Collected	d: 11/14/1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
••	r ai ai i i e te i s		OIIIO		MDE		- Toparca			
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/27/17 23:0	3 7439-92-1	
Sample:	GH-01b North Hallway DWC Left	Lab ID:	10411771002		d: 11/14/1°	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:1	5 7439-92-1	
Sample:	GH-02a North Hallway DWC Right	Lab ID:	10411771003	Collected	i: 11/14/1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.002						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:1	6 7439-92-1	
Sample:	GH-02b North Hallway DWC Right	Lab ID:	10411771004	Collected	i: 11/14/1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.002						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:1	8 7439-92-1	
Sample:	GH-03a North Hallway DWC BFS	Lab ID:	10411771005	Collected	i: 11/14/1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:1	9 7439-92-1	



Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Date: 12/06/2017 09:01 AM

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Sample:	GH-03b North Hallway DWC BFS	Lab ID:	10411771006		d: 11/1 <b>4</b> /1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 Mi	ET ICPMS, DW	Analytical	Method: EPA	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:2	3 7439-92-1	
Sample:	GH-04a Gymnasium Hallway DWC 1	Lab ID:	10411771007		d: 11/14/1	7 06:15	Received: 11.	/20/17 10:30 I	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		0.38	ug/L	0.10	0.010	1		11/29/17 17:2	4 7439-92-1	
Sample:	GH-04b Gymnasium Hallway DWC 1	Lab ID:	10411771008	Collected	1: 11/14/1	7 06:15	Received: 11	/20/17 10:30     1	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		0.19	ug/L	0.10	0.010	1		11/29/17 17:2	6 7439-92-1	
Sample:	GH-05a Gymnasium Hallway DWC 2	Lab ID:	10411771009	Collected	i: 11/14/1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.002						
Lead		0.13	ug/L	0.10	0.010	1		11/29/17 17:2	7 7439-92-1	
Sample:	GH-05b Gymnasium Hallway DWC 2	Lab ID:	10411771010	Collected	i: 11/14/1	7 06:15	Received: 11	/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8				<del></del>		- <del></del>
Lead		0.15	ug/L	0.10	0.010	1		11/29/17 17:2	8 7439-92-1	



Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Date: 12/06/2017 09:01 AM

Sample: GH-06a Gym Hallway DW0		Lab ID:	10411771011	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
_ ,	_	,		Report	MDI	DE	Deserved	Anahmad	CACNO	Oual
Parameters		Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:3	30 7439-92-1	
Sample: GH-06b Gym Hallway DW0		Lab ID:	10411771012	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
Parameters	R	esults	Units	Report Limit	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:3	32 7439-92-1	
Sample: GH-07a Gym Hallway BFS		Lab ID:	10411771013	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
Parameters		tesults	Units	Report Limit	MDL	DF_	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:3	33 7439-92-1	
Sample: GH-07b Gym Hallway BFS		Lab ID:	10411771014	Collected	11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	•••
Parameters	R	tesults	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:3	34 7439-92-1	
Sample: GH-08a Sout DWC 1	h Hallway	Lab ID:	10411771015	Collected	11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
Parameters	R	tesults	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW		Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:4	0 7439-92-1	



Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.:

Date: 12/06/2017 09:01 AM

10411771

Sample:	GH-08b South Hallway DWC 1	Lab ID:	10411771016	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
				Report		p., am		A 1	0401-	01
	Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:	41 7439-92-1	
Sample:	GH-09a South Hallway B	BFS Lab ID:	10411771017	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:	42 7439-92-1	
Sample:	GH-09b South Hallway E	BFS Lab ID:	10411771018	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL.	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	T ICPMS, DW	Analytical	Method: EPA 2	8.00						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:	44 7439-92-1	
Sample:	GH-10a South Hallway DWC 2	Lab ID:	10411771019	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:	45 7439-92-1	
Sample:	GH-10b South Hallway DWC 2	Lab ID:	10411771020	Collected	: 11/14/1	7 06:15	Received: 1	1/20/17 10:30	Matrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	T ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		11/29/17 17:	46 7439-92-1	



Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.:

Date: 12/06/2017 09:01 AM

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Sample:	GH-11a South Hallway DWC 3	Lab ID:	10411771021		d: 11/14/1	7 06:15	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA	200.8						
Lead		ND	ug/L	0.10	0.010	1		12/05/17 18:53	7439-92-1	
Sample:	GH-11b South Hailway DWC 3	Lab ID:	10411771022		1: 11/14/1	7 06:15	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		ND	ug/L	0.10	0.010	1		12/05/17 18:47	7439-92-1	
Sample:	GH-12a South Hallway DWC 4	Lab ID:	10411771023	Collected	l: 11/14/1	7 06:15	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		0.36	ug/L	0.10	0.010	1		12/05/17 18:58	7439-92-1	
Sample:	GH-12b South Hallway DWC 4	Lab ID:	10411771024	Collected	l: 11/14/1	7 06:15	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead		0.15	ug/L	0.10	0.010	1		12/05/17 18:59	7439-92-1	
Sample:	GH-13a South Entrance DWC Left	Lab ID:	10411771025	Collected	i: 11/14/1	7 06:15	Received: 11	/20/17 10:30 M	latrix: Water	
	Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 ME	ET ICPMS, DW	Analytical	Method: EPA 2	200.8					_	
Lead		1.2	ug/L	0.10	0.010	1		12/05/17 19:00	7439-92-1	



Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Date: 12/06/2017 09:01 AM

Sample: GH-13b South Entrance DWC Left	Lab ID:	10411771026	Collected:	11/14/1	7 06:15	Received: 11/	20/17 10:30 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead	1.3	ug/L	0.10	0.010	1		12/05/17 19:01	7439-92-1	
Sample: GH-14a South Entrance DWC Righ	Lab ID:	10411771027	Collected	11/14/1	7 06:15	Received: 11/	20/17 10:30 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead	3.2	ug/L	0.10	0.010	1		12/05/17 19:03	7439-92-1	
Sample: GH-14b South Entrance DWC Righ	Lab ID:	10411771028	Collected:	11/14/1	7 06:15	Received: 11/	20/17 10:30 M	atrix: Water	
-			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS, DW	Analytical	Method: EPA 2	200.8						
Lead	1.2	ug/L	0.10	0.010	1		12/05/17 19:04	7439-92-1	



### QUALITY CONTROL DATA

Project:

Lead

Lead

Lead

1798621-01 S.D.#16-Glen Hill

Pace Project No.:

10411771

QC Batch:

510203

Analysis Method:

EPA 200.8

QC Batch Method:

EPA 200.8

Analysis Description:

ICPMS Metals, Drinking Water

Associated Lab Samples:

10411771001, 10411771002, 10411771003, 10411771004, 10411771005, 10411771006, 10411771007, 10411771008, 10411771009, 10411771010, 10411771011, 10411771012, 10411771013, 10411771014,

10411771015, 10411771016, 10411771017, 10411771018, 10411771019, 10411771020

METHOD BLANK: 2774999

Matrix: Water

Associated Lab Samples:

10411771001, 10411771002, 10411771003, 10411771004, 10411771005, 10411771006, 10411771007, 10411771008, 10411771009, 10411771010, 10411771011, 10411771012, 10411771013, 10411771014,

10411771015, 10411771016, 10411771017, 10411771018, 10411771019, 10411771020

ND

Blank

Reporting

Parameter

Units ug/L

Result

Limit 0.10 MDL

0.010

Analyzed 11/27/17 23:01 Qualifiers

LABORATORY CONTROL SAMPLE:

2775000

Spike

Spike

Conc.

LCS Result

LCS

% Rec Limits

Qualifiers

Parameter Lead

Units ug/L

10411771001

Result

Conc. 100

% Rec 93.9

94

85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

ND

Spike

Conc.

100

ND

MS MSD 2776479 MS

MSD Result

MS % Rec

92

MSD % Rec

Max RPD RPD Qual

Date: 12/06/2017 09:01 AM

Units

ug/L

Units Parameter

ug/L

10411771011

100

Spike

Result

91.8

92.1

70-130

0 20

MATRIX SPIKE SAMPLE:

Parameter

2776480

Result

Conc. 100

MS Result 97.2

MS % Rec 97

% Rec Limits

70-130

% Rec

Limits

Qualifiers

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.



### **QUALITY CONTROL DATA**

Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.:

10411771

QC Batch:

510234

Analysis Method:

EPA 200.8

QC Batch Method:

EPA 200.8

Analysis Description:

ICPMS Metals, Drinking Water

Associated Lab Samples:

10411771021, 10411771022, 10411771023, 10411771024, 10411771025, 10411771026, 10411771027, 10411771028

Matrix: Water

METHOD BLANK: 2775163 Associated Lab Samples: 1

10411771021, 10411771022, 10411771023, 10411771024, 10411771025, 10411771026, 10411771027,

10411771028

Blank

Reporting

Parameter

Units

Result

Limit

MDL

Analyzed

Qualifiers

Lead

ug/L

Units

ug/L

10411771021

Result

ND

0.10

0.010 12/05/17 18:37

Quainers

LABORATORY CONTROL SAMPLE:

Parameter

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

2775164

Spike Conc.

100

LCS Result

MSD

Spike

Conc.

100

ND

LCS % Rec % Rec Limits

85-115

Qualifiers

Lead

Lead

Lead

Units

ug/L

MS

Spike

Conc.

100

2784197

ND

2784198

Result

102

2/84

MS

101

MSD MS

% Rec

100

102

MSD

101

% Rec

Max

RPD RPD Qual

MATRIX SPIKE SAMPLE:

Date: 12/06/2017 09:01 AM

Parameter

Parameter

2784199

10411 Units Re

ug/L

10411776023 Result Spike Conc. MS Result

100

101

Result

MS % Rec

100

% Rec Limits

70-130

% Rec

Limits

70-130

Qualifiers

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.





### **QUALIFIERS**

Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.:

10411771

### **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**

Date: 12/06/2017 09:01 AM

PASI-M Pace Analytical Services - Minneapolis



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

1798621-01 S.D.#16-Glen Hill

Pace Project No.: 10411771

Date: 12/06/2017 09:01 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
10411771001	GH-01a North Hallway DWC Left	EPA 200.8	510203		
10411771002	GH-01b North Hallway DWC Left	EPA 200.8	510203		
10411771003	GH-02a North Hallway DWC Right	EPA 200.8	510203		
10411771004	GH-02b North Hallway DWC Right	EPA 200.8	510203		
10411771005	GH-03a North Hallway DWC BFS	EPA 200.8	510203		
10411771006	GH-03b North Hallway DWC BFS	EPA 200.8	510203		
10411771007	GH-04a Gymnasium Hallway DWC 1	EPA 200.8	510203		
10411771008	GH-04b Gymnasium Hallway DWC 1	EPA 200.8	510203		
10411771009	GH-05a Gymnasium Hallway DWC 2	EPA 200.8	510203		
0411771010	GH-05b Gymnasium Hallway DWC 2	EPA 200.8	510203		
0411771011	GH-06a Gymnasium Haliway DWC 3	EPA 200.8	510203		
0411771012	GH-06b Gymnasium Hallway DWC 3	EPA 200.8	510203		
0411771013	GH-07a Gymnasium Hallway BFS	EPA 200.8	510203		
0411771014	GH-07b Gymnasium Hallway BFS	EPA 200.8	510203		
0411771015	GH-08a South Hallway DWC 1	EPA 200.8	510203		
0411771016	GH-08b South Hallway DWC 1	EPA 200.8	510203		
0411771017	GH-09a South Hallway BFS	EPA 200.8	510203		
0411771018	GH-09b South Hallway BFS	EPA 200.8	510203		
0411771019	GH-10a South Hallway DWC 2	EPA 200.8	510203		
10411771020	GH-10b South Hallway DWC 2	EPA 200.8	510203		
0411771021	GH-11a South Hallway DWC 3	EPA 200.8	510234		
0411771022	GH-11b South Hallway DWC 3	EPA 200.8	510234		
0411771023	GH-12a South Hallway DWC 4	EPA 200.8	510234		
0411771024	GH-12b South Hallway DWC 4	EPA 200.8	510234		
0411771025	GH-13a South Entrance DWC Left	EPA 200.8	510234		
0411771026	GH-13b South Entrance DWC Left	EPA 200.8	510234		
0411771027	GH-14a South Entrance DWC Righ	EPA 200.8	510234		
10411771028	GH-14b South Entrance DWC Righ	EPA 200.8	510234		

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

i Section A Required Client Information:	Section B Required Project Information:		Section C knoice Information:	מון וופורס ווזמסו הפ רהווליונה	ed accurately.	
United Analytical Services, Inc. (UAS)	Report To: Thad Daniels		Attention: Same		-	2
1429 Centre Circle Drive	Copy Ta:		2			
ve, Illinois 60515			Same		<u>शस्त्र स्थानसम्बद्धातम् अत्रमाद्धाः । । । । । । । । । । । । । । । । । । ।</u>	The Contract of
EOD	£		١		- 1	
Requested Due Date: Standard TAT	Project #: S.D. #16 - Gien Hill School	School	Pace Project Manager, Jeff Durton		This is the state of the state	2012
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MATR	(fin) of se	COLLECTED	Freservatives			
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GH-01a North Haliway DWC Left	DW/G	11/14/2017 6	×	×	150	
GH-01b North Hallway DWC Left	. DWG	1	×	×	7 00	
GH-02a North Hallway DWC Right	DW/G	11/14/2017 6:15a	×	×		~~
GH-02b North Hallway DWC Right	DW G	11/14/2017 6:15a	×	×		
GH-03a North Hallway DWC BFS	DW/G	11/14/2017 6:15a	1 ×	×		10
GH-03b North Hallway DWC BFS	DWIG	11/14/2017 6:15a	×	×	0, Z,	. 0
, GH-04a Gymnasîum Hallway DWC 1	D M/G	11/14/2017   6:15a	×	×	). O	ا.
GH-04b Gymnasium Halfway DWC 1	DWG	11/14/2017 6:15a	×	X	3	10
GH-05a Gymnasium Hallway DWC 2	DWG	11/14/2017 6:15a	×	×	000	(L
GH-056 Gymnasium Hallway DWC 2	DWiG	11/14/2017 6:15a	×	×	9	۵
GH-06a Gymnasium Hallway DWC 3	D W G	11/14/2017 6:15a	×	×		
GH-06b Gymnasium Haliway DWC 3	9MG	11/14/2017   6:15a	×	×		7
		74. III			Shortanos a away a salah da salah salah	
	1) Jallonk	u/5/h/ 0 -	1320 Kallan (VI	Jones II Will	1,1320	
Water Last Used in Schjool Building on: 11/13/2017 @ 8:00 p.m.		WOW WOW	1430 150 3	12/11	5 5 25 55 5	>
			4000		16.81	<u></u>
		PLEKINDMEANDSIGNATION PRINT Name of SAMPLER: SIGNATURE of SAMPLER:	LA A	Thad Darriels	/N/ sled soler voler voler	saldrin Joe (V)
			Tollar		(X) 90 98 10 10 10 901 901	BIUI

Pace knatytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

073 ntact (Y/V) 020 078 SAMPLE CONDITIONS (V/V) 5.4 68 ъ palea Seculations Agency (V/V) 2 Hadi Received on ñ 2 アド 17.7 (N/Y) aniroldO laubles9 Page: LEWP N C 320 ح*دُدا جامعاً"ا* W F 11/14/2017 Thad Daniels
DATE Signed: ঝ 2 8,002 aq teal sesylenA NΑ Jeff Dunton A CO NATE OF 40981 Preservatives Company Name: Same Pace Project Manager: Invoice Information; Same Address: Same Pace Quote: 788 370 ttemton: euo # OF CONTAINERS SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION Ľ SIGNATURE of SAMPLER: PRINT Name of SAMPLER: 144E F 11/14/2017 6:15a 11/14/2017 6:15a 11/1/4/2017 | 6:15a 11/14/2017 6:15a 11/14/2017 | 6:15a 11/14/2017 6:15a 11/14/2017 8:15a 11/14/2017 6:15a 11/14/2017 | 6:15a 11/14/2017 6:15a 11/14/2017 6:15a 2 11/14/2017 DATE COLLECTED Newals S.D. #16 - Glen Hill School W. START DATE Required Project Information: Thad Daniels SAMPLE TYPE (G=GRAB C=COMP) S S S DW G o Mo DWG DW G O A A დ <u>გ</u> DWG <u>⊗</u> DWG DWG დ <u>გ</u> Purchase Order #: MATRIX CODE (see velid codes to left) Project Name: Section B CCODE DW TWT WWW WP . Sopy To: MATRIX
Dimissing Water
Water
Wate Weber
Product
Scalifold
Cil Fax: 630-691-1819 Vater Last Used in Schjool Building on: 11/13/2017 🥷 8:00 p.m. United Analytical Services, Inc. (UAS) ADDITIONAL CONTILENTS One Character per box. (A-Z, 0-9 f, -). Sample Ids must be unique GH-07a Gymnasium Hallway BFS GH-07b Gymnasium Hallway BFS SAMPLE ID GH-10a South Hallway DWC 2 GH-11a South Hallway DWC 3 GH-12b South Hallway DWC 4 GH-08a South Hallway DWC 1 GH-11b South Hallway DWC 3 GH-12a South Hallway DWC 4 GH-08b South Hallway DWC 1 GH-10b South Hallway DWC 2 1429 Centre Circle Drive GH-09a South Hallway BFS GH-09b South Hallway BFS Email: tdanjels@uas1.com Doweners Grave, Illinois 60515 Required Client Information: ddress: 9 m \*\*\* è N m 4 in w Page 16 of 21 ITEM #

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

(N/N) 026 Samples of act 010 72 7 077 Cooler (Y/\ld) SAMPLECCHURCHS ö D pelees Custody Regulatory Agency 10,2 State / Location (N/A) Received on バイ 17.7 (NNY) enitoldD leublea R Page: TEMP In C 13,20 15.80 15.80 1320 11/14/2017 "Thezh u A DATE Signed: V 2 A/2 Thad Danfels ACCEPTED BY: AFFICATION 8,00<u>2</u> 89 teaT eazylanA NΑ 40981 Jeff Dunton Preservatives Invoice Information:
Attention: Same
Company Name: Same
Address: Same Pace Project Manager. Pace Profile #: 1320 157 Pace Quote: Section C эвоМ аявимиюр чо SAMPLER NAME AND SIGNATURE 14/m/h 10/12/12 SAMPLE TEMP AT COLLECTION SIGNATURE of SAMPLER: PRINT Name of SAMPLER: DATE: 필 6:15a B:15a 6:15a 8:15a 200 11/14/2017 1/14/2017 11/14/2017 1/14/2017 DATE COLLECTED atten 11 Moment S.D. #16 - Glen Hill School 1798621-01 START DATE Required Project Information: Thad Daniels SAMPLE TYPE (GEGRAB CECOMP) DW G <u>0</u> D M D Ø MG Purchase Order#; Project Name: S WATRIX CODE (see valid codes to left) Section B Copy To: Project # MATRIX
Diricking Water
Whato
Water
Product
Sol/Solid
ON
Witho
Mito
Air
These
These Fax: 630-691-1819 ∕ater Last Used in Schjool Building on: 11/13/2017 @ 8:00 p.m. tequired Client Information: Sompany: United Analytical Services, Inc. (UAS) Adress: 1429 Centre Circle Drive One Character per box. (A-Z, 0-9 / , -). Sample ids must be unique. ADDITIONAL COMMENTS GH-14b South Entrance DWC Right GH-14a South Entrance DWC Right GH-13a South Entrance DWC Left Standard TAT GH-13b South Entrance DWC Left SAMPLE ID tdaniels@uas1.com Joweners Grave, Illinois 60515 630-691-8271 Requested Due Date: Address: G Email: ... ... £ 'n Ç, 'n 15 Ň Page 17 of 21 # WHI

### Pace Analytical\*

Document Name:

### Sample Condition Upon Receipt Form

Document No.: F-MN-L-213-rev.21 Document Revised: 30Aug2017 Page 1 of 2

Issuing Authority:

WO#: 10411771

Sample Condition Client Name:		Projec	(#) Hall transmitted [ ]
Upon Receipt Untred August	hra)		
Courier: Fed Ex UPS	USPS	Client	10411771
Commercial Pace SpeeDee	Other:		
Tracking Number: 1212-5349-396	25/30	76/3987	-
Custody Seal on Cooler/Box Present? Yes	1799	8   4001 Seals Intact? [	Yes No Optional: Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap Bubble Bags	`[]Non-	e Other:	Temp Blank? Yes No
Thermometer 151401163 7. 2 7. 5. 1 7. 2 6. 1 7. 2 6. 1 7. 2 6. 1 7. 2 6. 1 7. 2 6. 1 7. 2 6. 1 7. 2 6. 1 7. 2 6. 2 6. 2 6. 2 6. 2 6. 2 6. 2 6. 2	rected (°C) or:	Dat Dat	1/17-4 Biological Tissue Frozen? Yes No. AN/A te and Initials of Person Examining Contents: 1/20/17
NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)?		☐Yes [	LA. MS, Did samples originate from a foreign source (internationally,  No including Hawali and Puerto Rico)?  Yes No  -Q-338) and include with SCUR/COC paperwork.
			COMMENTS:
Chain of Custody Present?	<b>≯</b> Yes	□No	1.
Chain of Custody Filled Out?	Yes	□No	2.
Chain of Custody Relinquished?	Yes	<b>12</b> 400	3.
Sampler Name and/or Signature on COC?	Yes	□No □N/A	4.
Samples Arrived within Hold Time?	¥∑Yes	□No	5.
Short Hold Time Analysis (<72 hr)?	∐Yes	_ <u>}</u>	6.
Rush Turn Around Time Requested?	□Yes	<b>⊅</b> €%₀	7.
Sufficient Volume?	Yes	□No	8.
Correct Containers Used?	Yes	□No	9.
-Pace Containers Used?	Yes	□No	
Containers Intact?	Yes	□No	10.
Filtered Volume Received for Dissolved Tests?	∐Yes	□No MN/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<b>Y</b> √Yes	□No	12.To be fifteered by lab
-Includes Date/Time/ID/Analysis Matrix: (4)			<b>3</b>
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in	∐Yes	□No XIN/A	13. ☐HNO <sub>3</sub> ☐H₂SO <sub>4</sub> ☐NaOH Positive for Res. Chlorine? Y N
compliance with EPA recommendation? (HNO₃, H₂SO₄, <2pH, NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease,	Yes	□No XIN/A	Initial when Lot # of added
DRO/8015 (water) and Dioxin.	Yes	DNO XIN/A	completed: preservative:
Headspace in VOA Vials ( >6mm)?	∐Yes	□No DN/A	14.
Trip Blank Present?	Yes	□No DAVA	15.
Trip Blank Custody Seals Present?	∐Yes	□No ŒNHA	
Pace Trip Blank Lot # (if purchased):			
CLIENT NOTIFICATION/RESOLUTION			Field Data Required? Yes No
Person Contacted:	<del></del>		Date/Time:
Comments/Resolution:			



Document Name: Sample Condition Upon Receipt Form Document No.: F-MN-L-213-rev.21

Document Revised: 30Aug2017 Page 2 of 2 Issuing Authority: Pace Minnesota Quality Office

**SCUR Exceptions:** 

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Document Revised: 30Aug2017 Page 2 of 2 Issuing Authority: Pace Minnesota Quality Office

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Page 2 of 2
Issuing Authority:
Pace Minnesota Quality Office

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525-535 West Jefferson Street · Springfield, Hillinois 62761-0001 · www.dph.Hillinois.gov 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

LEADID ISSUED 001047 1/17/2017

Thad Daniels 1335 Fagan Road Batavia, IL 60510 EXPIRES 1/31/2018



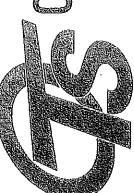
ILLINOIS LEAD PROGRAM Environmental Health Alteration of this license shall result in legal action RISK ASSESSOR CERTIFICATE EXPIRES 3/8/2019

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

Nationally Accredited by PHAB



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Occupational Training & Supply, Inc. certifies that

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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

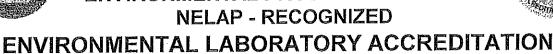
Kathy DeSalvo, Director

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### STATE OF ILLINOIS

### **ENVIRONMENTAL PROTECTION AGENCY NELAP - RECOGNIZED**



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

Supervisor

Environmental Laboratory Accreditation Program

John South

Accreditation Officer

Environmental Laboratory Accreditation Program

John D. Soit

Certificate No.:

003998

**Expiration Date:** 

12/11/2017

Issued On:

11/15/2016

### State of Illinois

### Environmental Protection Agency

### Awards the Certificate of Approval

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

FOT Name: Drinking Water, Inorganic

Matrix Type: Potable Water

Method: USEPA180.1

Matrix Type: Potable Water

Turbidity

Method: USEPA200.8R5.4

Matrix Type: Potable Water

Aluminum

Arsenic

Beryllium

Chromium

Lead

Mercury

Selenium

Thallium

Method: USEPA245.1R3.0

Matrix Type: Potable Water

Mercury

Method: USEPA300.0R2.1

Matrix Type: Potable Water

Bromide

Fluoride

Nitrite

Method: USEPA353,2R2.0

Matrix Type: Potable Water

Nitrate

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

1,1,2,2-Tetrachloroethane

1,1-Dichloroethane

Method: SM4500P-E,20Ed

003998

Certificate No.:

Orthophosphate

Antimony

Barium

Cadmium

Соррег

Manganese

Nickel

Silver

Zinc

Chloride

Nitrate

Sulfate

Nitrite

1,1,1-Trichloroethane

1,1,2-Trichloroethane

1,1-Dichloroethene

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### **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.

### WQMP

Water Quality Management Plan

### 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

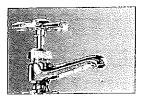
These individuals will be key to implementing whatever program you develop.

### Step 2

### **Understand Your Facility Layout**

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

 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 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:

- 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 <u>3Ts for Reducing Lead in Drinking Water In Schools Technical Guidance</u>.

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.



### Implement Your Plan

### Remove the problem fixture(s) from service

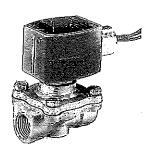
Immediately upon learning that a fixture has tested positive for lead, it should be removed from service. *Install signs, remove handles or bag the device to prevent use until it can be addressed.* 



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@ilrwa.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