

Columbus

Cleveland

Dayton

August 19, 2016

Mr. Tim Gehring Director of Facilities Management Worthington City School District 250 East Wilson Bridge Road Worthington, Ohio 43085

#### Re: Lead in Water Testing at Phoenix Middle School 2341 Snouffer Road, Columbus, OH 43085 Sample Date: June 26, 2016 L&A Project No: 16-0311

Dear Mr. Gehring,

Lawhon & Associates, Inc. (L&A) performed water sampling to document concentrations of lead in the potable water system. There is no federal law requiring testing of drinking water in schools, except for schools that have their own water supply and are thus regulated under the Safe Drinking Water Act (SDWA). This testing was performed as a proactive measure to ensure lead in drinking water concentrations remain at acceptable levels. L&A's conclusions and recommendations relevant to the sampling performed are presented in this document.

### METHODOLOGY

L&A performed environmental sampling for lead in water at Phoenix Middle School on June 26, 2016. The sampling was conducted in accordance with the United States Environmental Protection Agency's (US EPA) guidance document "3Ts (Training, Testing, and Telling) for Reducing Lead in Drinking Water in Schools" (3Ts Guidance); however, a larger sample volume was collected due to laboratory requirements for Ohio EPA certified methods. A sampling plan was developed for the facility, which prioritized drinking water sources based on potential use and risk. Field activities included the collection of one (1) liter water samples from the first outlet off the water main, drinking fountains, kitchen sinks, and approximately 10% of classroom sinks or other potential drinking water sources. Prior to sample collection, the potable water system was not used for a minimum of 8 hours. Flushed samples were collected and submitted for analysis only if the first draw sample from the same fixture exceeded the US EPA Action Level. Samples were collected by Mr. Shawen Jenkins, Ohio Department of Health (ODH) certified Lead Risk Assessor (LRA) #LA9297. Water samples were submitted to MASI Environmental Laboratories located in Plain City, Ohio for analysis using the EPA method SM3113B. MASI is certified by the Ohio EPA for lead in drinking water analysis.

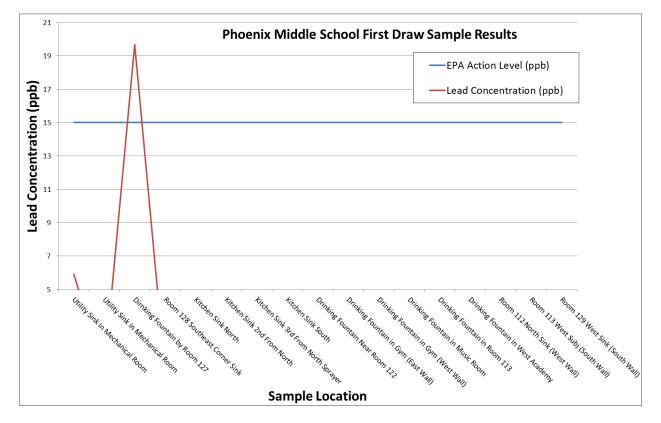
# **REGULATORY ACTION LEVELS**

US EPA's 3T's Guidance recommends an action level of 20 parts per billion (ppb) for lead; however, Ohio Facilities Construction Commission (OFCC) Lead Plumbing Fixture Replacement Assistance Grants Program has set an action level of 15 ppb for lead which is consistent with the action level for lead set by EPA's Lead and Copper Rule, under the National Primary Drinking Water Regulations (NPDWR).

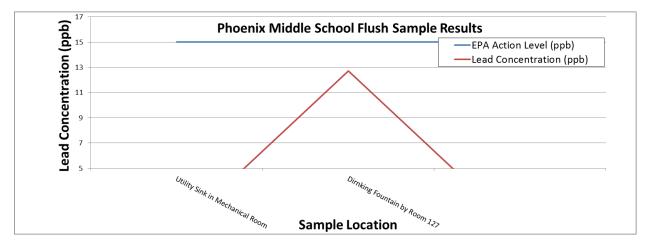
## FINDINGS

L&A collected sixteen (16) first draw water samples at Phoenix Middle School. A diagram of the sampling locations is presented in Appendix A. As illustrated on the following graph, lead was detected in above the action level in one sample:

Drinking Fountain by Room 127 (19.7 μg/L)



L&A collected and submitted flush samples for the Drinking Fountain by Room 127, where lead was detected in excess of the action level in the corresponding first draw sample, as well as the utility sink in the mechanical room (the first outlet off the main) where lead was also detected. As illustrated on the following graph, the lead concentrations in all flush samples collected were reported below the action level.



A comprehensive data table is included as Appendix B. A copy of the laboratory report is included in Appendix C.

### CONCLUSIONS

The results of L&A's sampling indicate that the following location had a lead concentration found in excess of the action level in the first draw samples but below the action level in the following flush samples, indicating that the source of lead is likely in the faucet/fixture itself or the plumbing connecting the fixture to the lateral, and very little lead is likely coming from the plumbing upstream of the faucet/fixture:

Drinking Fountain by Room 127

Based on the results, L&A recommends cleaning out the aerator screen, replacing any lead containing components, or replacing the entire fixture and retesting to confirm that the lead in water concentration no longer exceeds the action level.

### CLOSURE

L&A has prepared this report for your use in accordance with generally accepted inspection and testing practices. The information obtained in this report is site and time specific and pertains to this project only. This inspection evaluated the conditions that were readily accessible at the time of the investigation of the subject property and does not warrant against hidden conditions or future alteration of conditions at the site, as well as subsequent changes in regulations. This report should not be construed as a full Lead Risk Assessment.

This report was prepared for the exclusive use of the Worthington City School District. No other party may rely on this report unless expressly designated by the Client in writing. The use of the report is subject to the limitations and exceptions set forth in this report, as well as the terms and conditions contained in the original contract documents. L&A will not distribute or publish this report without the Client's consent, except as required by law or court order.

Thank you for the opportunity to assist you in this important matter. If you have any questions concerning this report, please contact Shawen Jenkins or Tim Price at (614) 481-8600.

Sincerely,

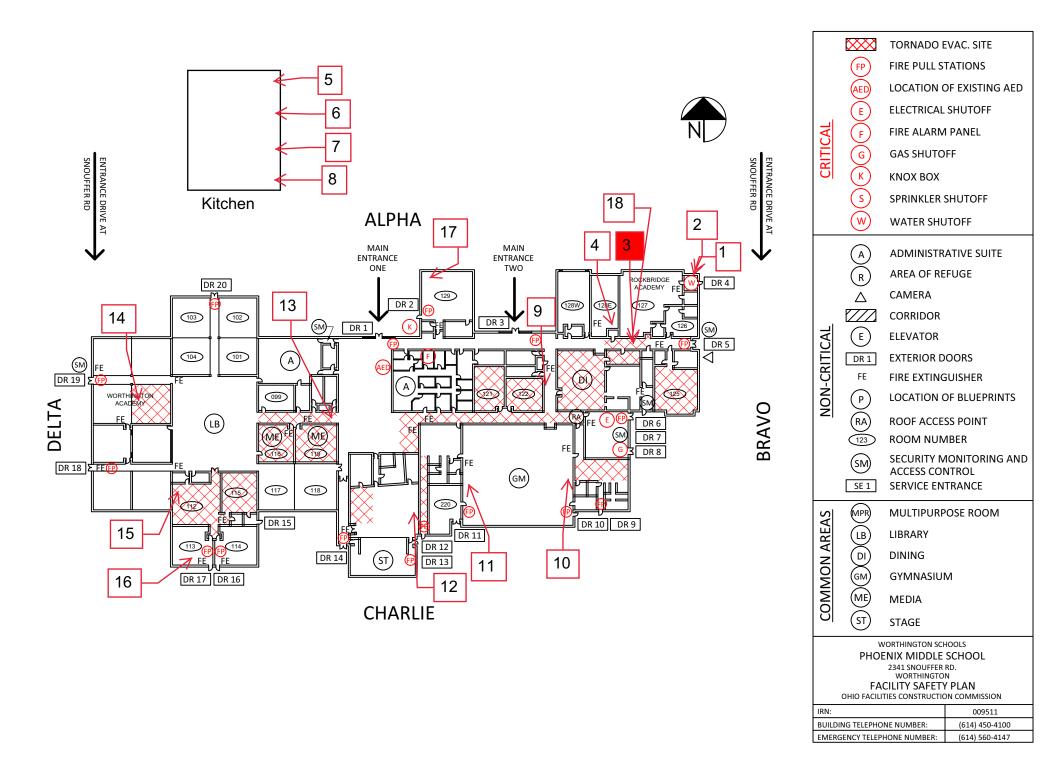
Shawen Jenkins, Lead Risk Assessor Environmental Scientist

Tim Prin

Tim Price Senior Project Manager

# **APPENDIX A**

Sample Location Diagram



# **APPENDIX B**

**Comprehensive Data Table** 

Sample ID	Sampling Site	Sample Type	Meets Non-Use Period	Recalled Fixture	Analytical Results (ppb)
PM-1	Utility Sink in Mechanical Room	First Draw	Yes	No	5.9
PM-2	Utility Sink in Mechanical Room	Flush	Yes	No	<5
PM-3	Drinking Fountain by Room 127	First Draw	Yes	No	19.7
PM-4	Room 128 Southeast Corner Sink	First Draw	Yes	No	<5
PM-5	L N Sink	First Draw	Yes	No	<5
PM-6	Kitchen Sink 2nd From North	First Draw	Yes	No	<5
PM-7	Kitchen Sink 3rd From North Sprayer	First Draw	Yes	No	<5
PM-8	Kitchen Sink South	First Draw	Yes	No	<5
PM-9	Drinking Fountain Near Room 122	First Draw	Yes	No	<5
PM-10	Drinking Fountain in Gym (East Wall)	First Draw	Yes	No	<5
PM-11	Drinking Fountain in Gym (West Wall)	First Draw	Yes	No	<5
PM-12	Drinking Fountain in Music Room	First Draw	Yes	No	<5
PM-13	Drinking Fountain in Room 113	First Draw	Yes	No	<5
PM-14	Drinking Fountain in West Academy	First Draw	Yes	No	<5
PM-15	Room 112 North Sink (West Wall)	First Draw	Yes	No	<5
PM-16	Room 113 West Subj (South Wall)	First Draw	Yes	No	<5
PM-17	Room 129 West Sink (South Wall)	First Draw	Yes	No	<5
PM-18	Drinking Fountain by Room 127	Flush	Yes	No	12.7

### Table 1: Potable Water Sampling Results

1. Detection limit is 5.0 ppbl.

2. Bold indicates lead present above detection limits.

3. Highlighting indicates lead concentrations exceed the EPA Action Level.

# **APPENDIX C**

Laboratory Analytical Reports

Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 Client No: 0000005911 AR Sheet No: 0415553-AR MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE MASI Cincinnati Laboratory: 4100 COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:00 Repeat No: Sample Matrix: POTABLE Cl2 Total: C12 Free: Sample Monitoring Point: PM 1 Sample Tap: UTILITY S MECH ROOM NEAR Cl2 Combined: Sample Type: Sample Address: 2341 SNOUFFER RD WORTHINGTON OH 43085 Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48477 3113B 4792 07/01/16 5.9 ug/l

Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 AR Sheet No: 0415555-AR CHUCK WILSON MASI Dublin Laboratory: 877 1441 KING AVENUE MASI Cincinnati Laboratory: 4100 COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:04 Repeat No: Sample Matrix: POTABLE C12 Total: Cl2 Free: Sample Monitoring Point: PM 3 Sample Tap: DF BY RM 127 Sample Type: Cl2 Combined: Sample Address: 2341 SNOUFFER RD Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyzed Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48611 3113B 4792 07/01/16 19.7 ug/l

Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 AR Sheet No: 0415556-AR MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:06 Repeat No: Sample Matrix: POTABLE Cl2 Total: Sample Monitoring Point: PM 4 C12 Free: Sample Tap: RM 128 SE CORNER SINK Cl2 Combined: Sample Type: Sample Address: 2341 SNOUFFER RD Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyzed Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48609 3113B 4792 07/01/16 <5.0 ug/l

Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 AR Sheet No: 0415557 m. MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:08 Repeat No: Sample Matrix: POTABLE C12 Total: Cl2 Free: Sample Monitoring Point: PM 5 Cl2 Combined: Sample Tap: L N SINK Sample Type: Sample Address: 2341 SNOUFFER RD Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48607 3113B 4792 07/01/16 <5.0 ug/l

Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 AR Sheet No: 0415558-m. MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:10 Repeat No: Sample Matrix: POTABLE Cl2 Total: C12 Free: Sample Monitoring Point: PM 6 Sample Tap: K SINK 2ND FROM N Cl2 Combined: Sample Type: Sample Address: 2341 SNOUFFER RD Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Inder Analyzed Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48502 3113B 4792 07/01/16 <5.0 ug/l

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Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 AR Sheet No: 0415500 m. MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:14 Repeat No: Sample Matrix: POTABLE Cl2 Total: Cl2 Free: Sample Monitoring Point: PM 8 Sample Tap: K SINK SOUTH Cl2 Combined: Sample Type: Sample Address: 2341 SNOUFFER RD Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyzed Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48498 3113B 4792 07/01/16 <5.0 ug/l

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Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/05/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 AR Sheet No: 0415553-m. MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/27/16 Chlorinated: Sample Time: 09:20 Repeat No: Sample Matrix: POTABLE Cl2 Total: C12 Free: Sample Monitoring Point: PM 11 Sample Tap: DF GYM W WALL Cl2 Combined: Sample Type: Sample Address: 2341 SNOUFFER RD Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyzed Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 48492 3113B 4792 07/01/16 <5.0 ug/l

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Certificate of Analysis - Fax Copy MASI ENVIRONMENTAL SERVICES P.O. Box 1440 Dublin, Ohio 43017 (614) 873-4654 Page: 1 Date: 07/22/16 LAWHON & ASSOCIATES, INC. Client No: 0000005911 Client No: 000005911 AR Sheet No: 0415554-AR MASI Dublin Laboratory: 877 CHUCK WILSON 1441 KING AVENUE MASI Cincinnati Laboratory: 4100 COLUMBUS OH 43212 PWS ID No: STU ID No: Dear Client: PO No: Along with your results listed below we would like to thank you for allowing MASI to assist you with your environmental testing requirements. Account Name: LAWHON & ASSOCIATES, INC. Private Sampler Name: SHAWEN JENKINS County: FRANKLIN Sample Date: 06/24/16 Chlorinate**d**: Sample Time: 09:02 Repeat No: Sample Matrix: POTABLE Cl2 Total: Sample Monitoring Point: PM 2 C12 Free: Sample Tap: UTILITY S MECH RM Cl2 Combined: Sample Type: Sample Address: 2341 SNOUFFER RD WORTHINGTON OH 43085 Sample ID: \_\_\_\_\_ Lab Metho**d** Analyst Date Number Number Number Analyze**d** Test Requested Test Result \_\_\_\_\_ \_\_\_\_\_ LEAD 60781 3113B 3710 07/20/16 <5.0 ug/l

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