



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 Worthington Park Elementary School**  
**500 Park Rd, Westerville, OH 43081**  
**Sample Date: June 28, 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 Worthington Park Elementary School on June 28, 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. First draw 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

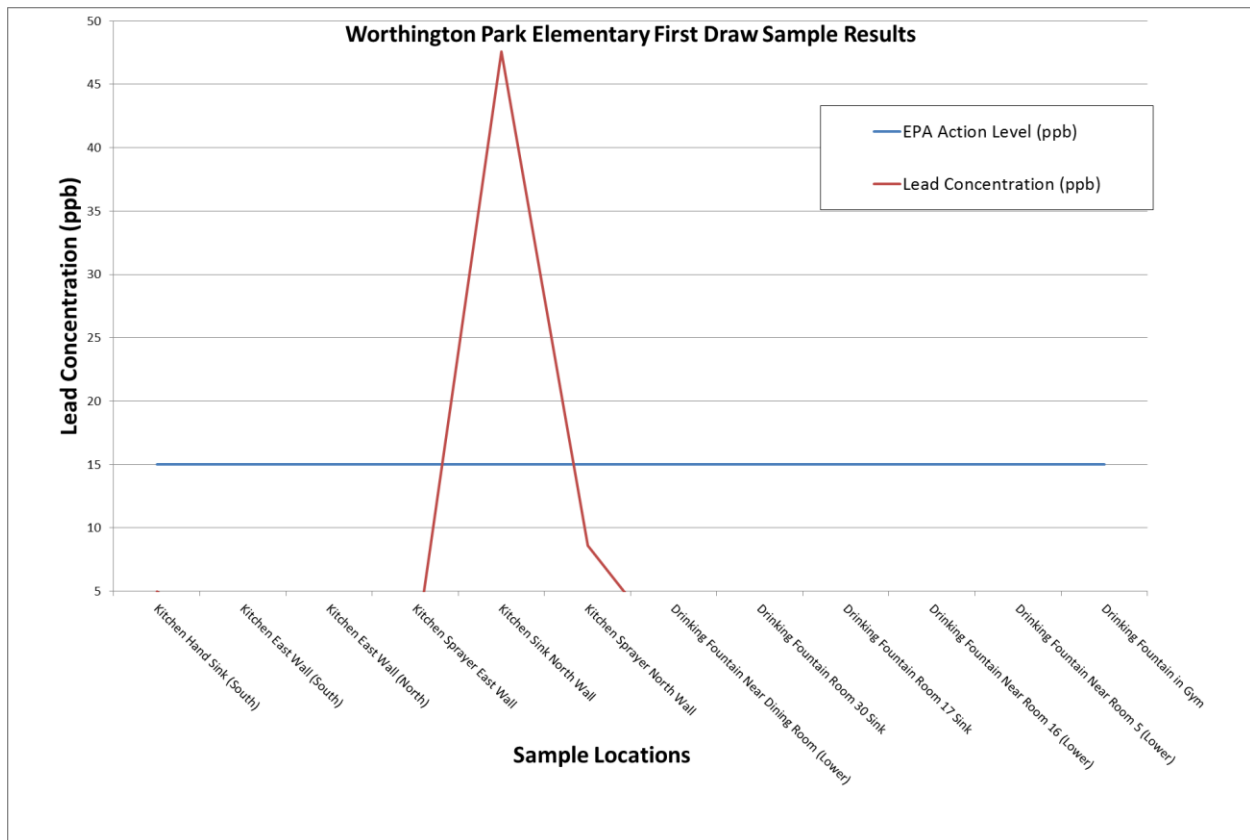
the action level for lead set by EPA's Lead and Copper Rule, under the National Primary Drinking Water Regulations (NPDWR).

For the purposes of this assessment, L&A has utilized an action level of 15 ppb lead for comparison with the laboratory analytical results.

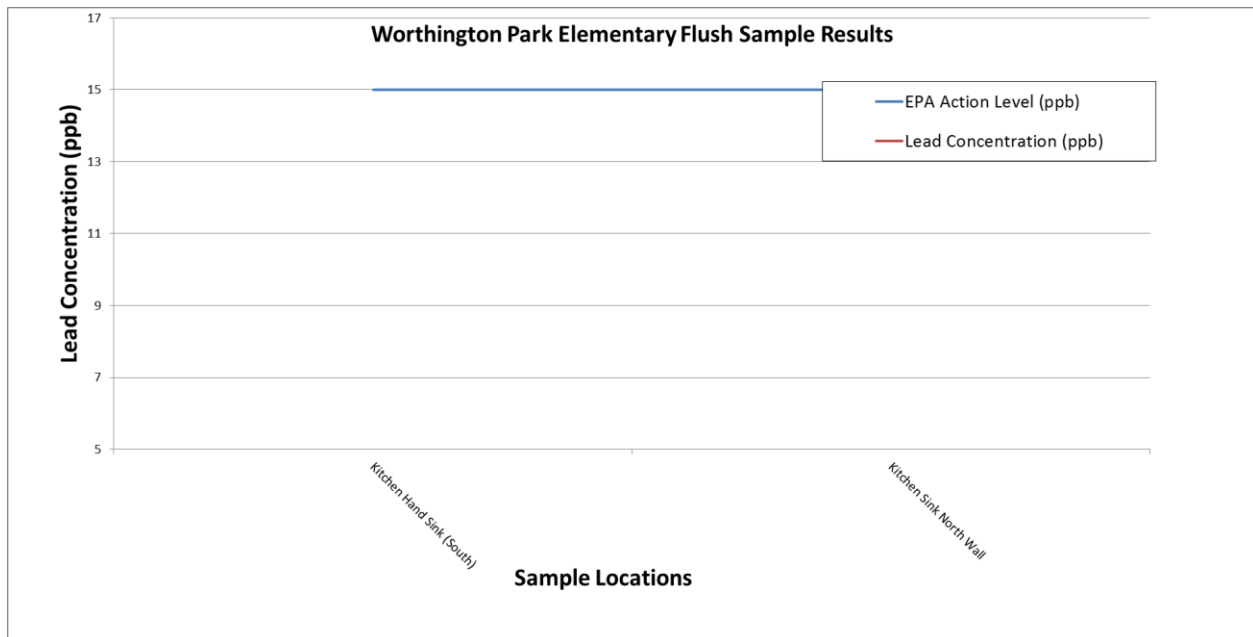
## FINDINGS

L&A collected twelve (12) first draw water samples at Worthington Park Elementary School. A diagram of the sampling locations is presented in Appendix A. As illustrated on the following graph, lead was detected above the action limit at one sample location:

- Kitchen Sink (North Wall) (47.6 µg/L)



L&A collected and submitted flush samples for the Kitchen Sink North Wall, where lead was detected in excess of the action level in the corresponding first draw sample, as well as the Kitchen Hand Sink-South (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 and the detection limit.



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:

- Kitchen Sink (North Wall)

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,

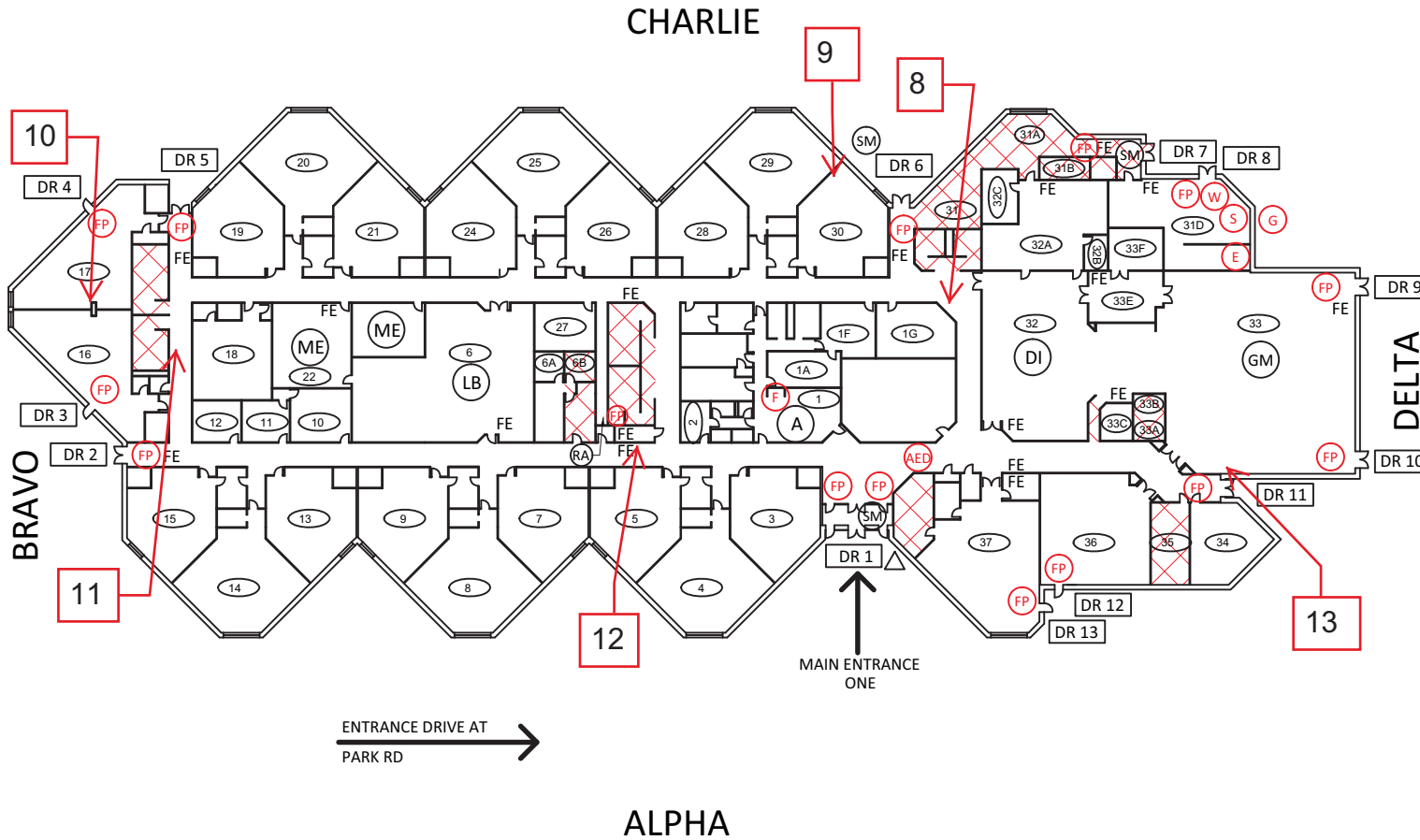
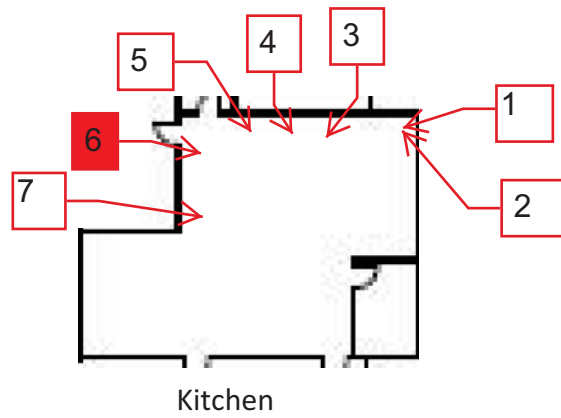
A handwritten signature in blue ink, appearing to read "Shawen Jenkins".

Shawen Jenkins, Lead Risk Assessor  
Environmental Scientist

A handwritten signature in blue ink, appearing to read "Tim Price".

Tim Price  
Senior Project Manager

**APPENDIX A**  
**Sample Location Diagram**



<b>CRITICAL</b>		TORNADO EVAC. SITE
		FIRE PULL STATIONS
		LOCATION OF EXISTING AED
		ELECTRICAL SHUTOFF
		FIRE ALARM PANEL
		GAS SHUTOFF
		KNOX BOX
		SPRINKLER SHUTOFF
		WATER SHUTOFF
	<b>NON-CRITICAL</b>	
		AREA OF REFUGE
		CAMERA
		CORRIDOR
		ELEVATOR
		EXTERIOR DOORS
		FIRE EXTINGUISHER
		LOCATION OF BLUEPRINTS
		ROOF ACCESS POINT
		ROOM NUMBER
		SECURITY MONITORING AND ACCESS CONTROL
		SERVICE ENTRANCE
<b>COMMON AREAS</b>		
		LIBRARY
		DINING
		GYMNASIUM
		MEDIA
		STAGE
	WORTHINGTON SCHOOLS <b>WORTHINGTON PARK ELEMENTARY SCHOOL</b> 500 PARK RD. WORTHINGTON <b>FACILITY SAFETY PLAN</b> OHIO FACILITIES CONSTRUCTION COMMISSION	
IRN:	098087	
BUILDING TELEPHONE NUMBER:	(614) 450-5500	
EMERGENCY TELEPHONE NUMBER:	(614) 560-4147	

**APPENDIX B**  
**Comprehensive Data Table**

**Table 1: Potable Water Sampling Results**

Sample ID	Sampling Site	Sample Type	Meets Non-Use Period	Recalled Fixture	Analytical Results (ppb)
<b>WP-1</b>	<b>Kitchen Hand Sink (South)</b>	<b>First Draw</b>	<b>Yes</b>	<b>No</b>	<b>5.0</b>
WP-2	Kitchen Hand Sink (South)	Flush	Yes	No	<5
WP-3	Kitchen East Wall (South)	First Draw	Yes	No	<5
WP-4	Kitchen East Wall (North)	First Draw	Yes	No	<5
WP-5	Kitchen Sprayer East Wall	First Draw	Yes	No	<5
<b>WP-6</b>	<b>Kitchen Sink North Wall</b>	<b>First Draw</b>	<b>Yes</b>	<b>No</b>	<b>47.6</b>
<b>WP-7</b>	<b>Kitchen Sprayer North Wall</b>	<b>First Draw</b>	<b>Yes</b>	<b>No</b>	<b>8.6</b>
WP-8	Drinking Fountain Near Dining Room (Lower)	First Draw	Yes	No	<5
WP-9	Drinking Fountain Room 30 Sink	First Draw	Yes	No	<5
WP-10	Drinking Fountain Room 17 Sink	First Draw	Yes	No	<5
WP-11	Drinking Fountain Near Room 16 (Lower)	First Draw	Yes	No	<5
WP-12	Drinking Fountain Near Room 5 (Lower)	First Draw	Yes	No	<5
WP-13	Drinking Fountain in Gym	First Draw	Yes	No	<5
WP-14	Kitchen Sink North Wall	Flush	Yes	No	<5

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.  
 CHUCK WILSON  
 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415592-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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: 06/28/16	Chlorinated:
Sample Time: 07:45	Repeat No:
Sample Matrix: POTABLE	C12 Total:
Sample Monitoring Point: WP 1	C12 Free:
Sample Tap: KITCH HAND SINK SOUTH	C12 Combined:
Sample Type:	
Sample Address: WALL CLOSEST TO MAIN 500 PARK RD WESTERVILLE OH	
Sample ID: 43081	

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD	48788	3113B	4792	07/01/16
5.0 ug/l				

Public Drinking Water Analysis Results, as Required by OEPA,  
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 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415594-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 07:50  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 3  
 Sample Tap: KITCH EAST WALL SOUTH  
 Sample Type:  
 Sample Address: DISH SINK 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48787	3113B	4792	07/01/16

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Client No: 0000005911  
 AR Sheet No: 0415595-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 07:50  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 4  
 Sample Tap: KITCH EAST WALL NORTH  
 Sample Type:  
 Sample Address: DISH SINK 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48786	3113B	4792	07/01/16

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Client No: 0000005911  
 AR Sheet No: 0415596-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 07:52  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 5  
 Sample Tap: KITCH EAST WALL SPRAYER  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48785	3113B	4792	07/01/16

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Client No: 0000005911  
 AR Sheet No: 0415597-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 07:54  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 6  
 Sample Tap: KITCH NORTH WALL SINK  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD 47.6 ug/l	48784	3113B	4792	07/01/16

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Client No: 0000005911  
 AR Sheet No: 0415598-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 07:56  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 7  
 Sample Tap: KITCH NORTH WALL SPRAYER  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD 8.6 ug/l	48783	3113B	4792	07/01/16

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 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415599-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 07:58  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 8  
 Sample Tap: DF NEAR DINING RM LOWER  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48789	3113B	4792	07/01/16

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 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415600-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 08:00  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 9  
 Sample Tap: RM 30 SINK DF  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48790	3113B	4792	07/01/16

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 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415601-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 08:02  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 10  
 Sample Tap: RM 17 SINK DF  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48791	3113B	4792	07/01/16

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Client No: 0000005911  
 AR Sheet No: 0415602-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 08:04  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 11  
 Sample Tap: DF NEAR RM 16 LOWER  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48792	3113B	4792	07/01/16

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 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415603-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 08:06  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 12  
 Sample Tap: DF NEAR RM 5 LOWER  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48793	3113B	4792	07/01/16

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 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415604-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 06/28/16  
 Sample Time: 08:08  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP 13  
 Sample Tap: GYM DF  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	48794	3113B	4792	07/01/16

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 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0415593-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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: 06/28/16	Chlorinated:
Sample Time: 07:47	Repeat No:
Sample Matrix: POTABLE	C12 Total:
Sample Monitoring Point: WP 2	C12 Free:
Sample Tap: KITCH HAND SINK SOUTH	C12 Combined:
Sample Type:	
Sample Address: WALL CLOSEST TO MAIN 500 PARK RD	
Sample ID:	

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	60780	3113B	3710	07/20/16

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 Date: 07/28/16

LAWHON & ASSOCIATES, INC.  
 CHUCK WILSON  
 1441 KING AVENUE  
  
 COLUMBUS OH 43212

Client No: 0000005911  
 AR Sheet No: 0409419-AR  
 MASI Dublin Laboratory: 877  
 MASI Cincinnati Laboratory: 4100  
 PWS ID No:  
 STU ID No:  
 PO No:

Dear Client:

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.  
 Sampler Name: SHAWEN JENKINS  
 Sample Date: 07/22/16  
 Sample Time: 08:40  
 Sample Matrix: POTABLE  
 Sample Monitoring Point: WP14  
 Sample Tap: KITCHEN NORTH WALL SINK  
 Sample Type:  
 Sample Address: 500 PARK RD  
 Sample ID:

Private  
 County: FRANKLIN  
 Chlorinated:  
 Repeat No:  
 C12 Total:  
 C12 Free:  
 C12 Combined:

Test Requested	Lab Number	Method Number	Analyst Number	Date Analyzed
LEAD <5.0 ug/l	64747	3113B	4792	07/26/16

Public Drinking Water Analysis Results, as Required by OEPA,  
 are Reported Following Final QA/QC