
WATER QUALITY TESTING

FOR

***LIBERTYVILLE SCHOOL DISTRICT 70
BUTTERFIELD***

LIBERTYVILLE, ILLINOIS

SEPTEMBER 16, 2017

PROJECT NUMBER: 17-18331

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INTRODUCTION

Libertyville School District 70 implemented a proactive program of water testing at Butterfield School. Water sampling was conducted by Mr. Dan Petras of Aires Consulting on September 16, 2017. Mr. Geoffrey J. Bacci II, P.E. designed the study and developed this report.

All sampling methodology followed protocol required by The Lead in Drinking Water Testing Bill (LDWTB) and guidelines published by the Illinois Department of Public Health (IDPH). Detailed background information on testing requirements, methodology and lead health effects are included in the main report to the District that summarizes results and offers recommendations.

RESULTS

Field sheets identifying sample numbers and sample locations maps are included in Appendix I. Laboratory results are included in Appendix II.

The following locations exceeded 5 parts per billion (ppb). Locations that exceeded the EPA action level of 20 ppb are shown in **bold print**.

- BWF-17A: first draw sample from the drinking fountain outside the Media Center adj. the Girl's Bathroom- 5.88 ppb
- BCS-22A: first draw sample from the classroom sink in Room 606 - 6.36 ppb

Parents with children in affected rooms that exceeded 5 ppb should be notified within 7 days per IDPH guidelines. Remaining results should be at minimum posted on the District's website. All sample results should be e-mailed to IDPH within 7 days.

None of the sources exceeded the EPA action level of 20.0 ppb.

PROFESSIONAL CERTIFICATION

Aires Consulting, a division of Gallagher Bassett Services, Inc. conducted this study in the interest of Libertyville School District 70 to assist in meeting environmental

obligations and regulations. In this respect, we hope the results of this study are useful. *This study was not intended to include every environmental exposure that may be present at the facility; only those items specifically addressed in the report were evaluated.* If you have any questions concerning this study please let us know.

Respectfully Submitted,

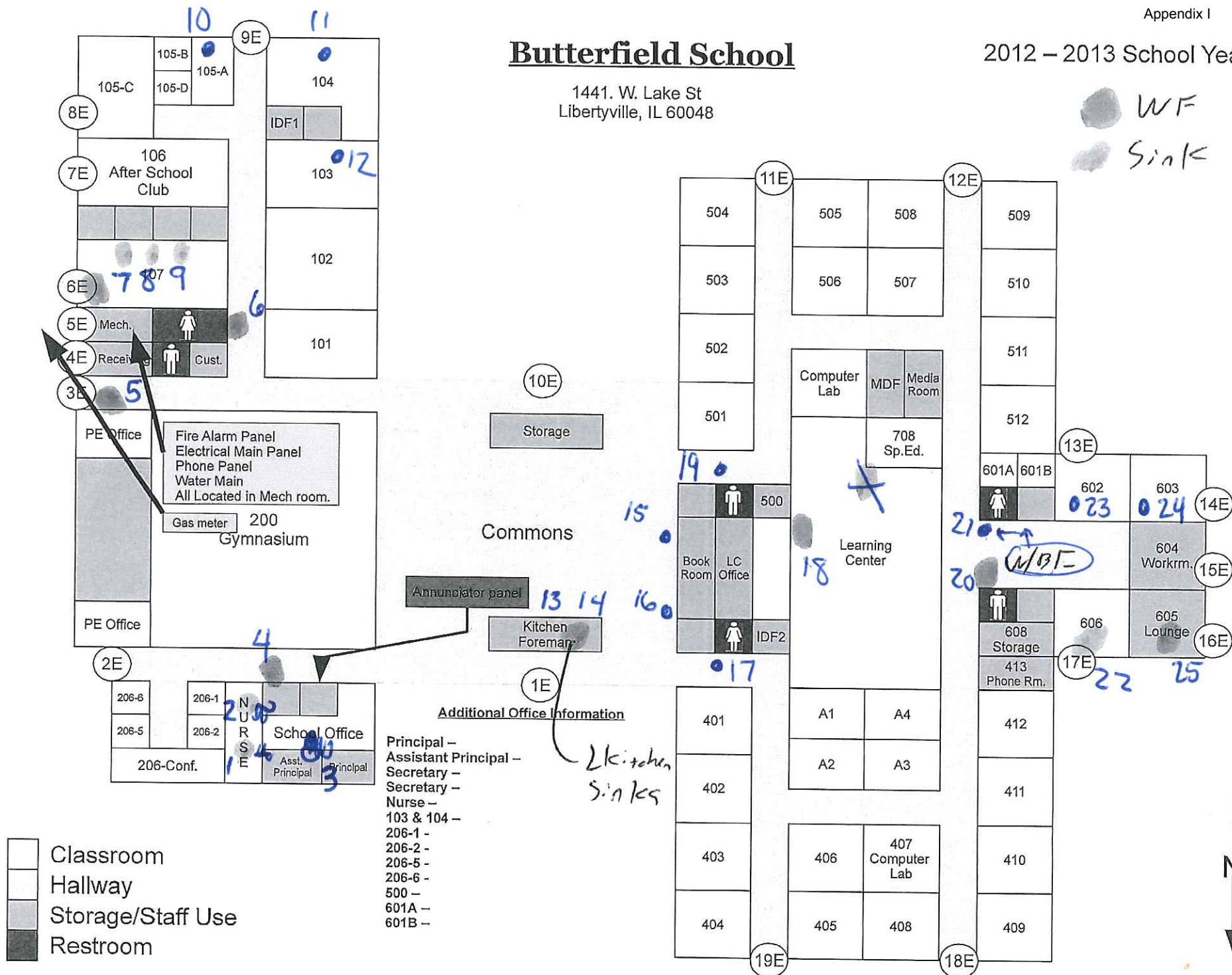


Geoffrey J. Bacci II, P.E.
Director Operations

Butterfield School

1441. W. Lake St
Libertyville, IL 60048

2012 – 2013 School Year





Thursday, October 5, 2017

Geoff Bacci II
 Aires Consulting Group
 1550 Hubbard Ave.
 Batavia, IL 60510
 TEL: (630) 879-3006
 FAX: (630) 879-3014

RE: Libertyville District 70/ Butterfield School

PAS WO: 1710523

Prairie Analytical Systems, Inc. received 53 sample(s) on 9/19/2017 for the analyses presented in the following report.

All applicable quality control procedures met method specific acceptance criteria unless otherwise noted.

This report shall not be reproduced, except in full, without the prior written consent of Prairie Analytical Systems, Inc.

If you have any questions, please feel free to contact me at (224) 253-1348.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Christina E. Pierce".

Christina E. Pierce
 Project Manager

Certifications: NELAP/NELAC - IL #100323

1210 Capital Airport Drive	*	Springfield, IL 62707	*	1.217.753.1148	*	1.217.753.1152 Fax
9114 Virginia Road Suite #112	*	Lake in the Hills, IL 60156	*	1.847.651.2604	*	1.847.458.0538 Fax

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client:	Aires Consulting Group									
Project:	Libertyville Distict 70/ Butterfield School					Lab Order:	17I0523			
Client Sample ID:	BS-1A					Lab ID:	17I0523-01			
Collection Date:	9/16/17 9:32					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:05	EPA200.8	JTC	
Client Sample ID:	BS-1B					Lab ID:	17I0523-02			
Collection Date:	9/16/17 9:33					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:19	EPA200.8	JTC	
Client Sample ID:	BS-2A					Lab ID:	17I0523-03			
Collection Date:	9/16/17 9:35					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:23	EPA200.8	JTC	
Client Sample ID:	BS-2B					Lab ID:	17I0523-04			
Collection Date:	9/16/17 9:35					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:28	EPA200.8	JTC	
Client Sample ID:	BS-3A					Lab ID:	17I0523-05			
Collection Date:	9/16/17 9:36					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:32	EPA200.8	JTC	
Client Sample ID:	BS-3B					Lab ID:	17I0523-06			
Collection Date:	9/16/17 9:36					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:36	EPA200.8	JTC	
Client Sample ID:	BWF-4A					Lab ID:	17I0523-07			
Collection Date:	9/16/17 9:37					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:54	EPA200.8	JTC	

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client:	Aires Consulting Group					Lab Order:	17I0523			
Project:	Libertyville Distict 70/ Butterfield School									
Client Sample ID:	BWF-4B					Lab ID:	17I0523-08			
Collection Date:	9/16/17 9:37					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 18:58	EPA200.8	JTC	
Client Sample ID:	BWF-5A					Lab ID:	17I0523-09			
Collection Date:	9/16/17 9:48					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:03	EPA200.8	JTC	
Client Sample ID:	BWF-5B					Lab ID:	17I0523-10			
Collection Date:	9/16/17 9:48					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:07	EPA200.8	JTC	
Client Sample ID:	BWF-6A					Lab ID:	17I0523-11			
Collection Date:	9/16/17 9:50					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:12	EPA200.8	JTC	
Client Sample ID:	BWF-6B					Lab ID:	17I0523-12			
Collection Date:	9/16/17 9:51					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:25	EPA200.8	JTC	
Client Sample ID:	BCS-7A					Lab ID:	17I0523-13			
Collection Date:	9/16/17 9:55					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:29	EPA200.8	JTC	
Client Sample ID:	BCS-7B					Lab ID:	17I0523-14			
Collection Date:	9/16/17 9:55					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:34	EPA200.8	JTC	

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: Libertyville Distict 70/ Butterfield School

Lab Order: 17I0523

Client Sample ID: BCS-7B

Lab ID: 17I0523-14

Collection Date: 9/16/17 9:55

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Client Sample ID: BCS-8A

Lab ID: 17I0523-15

Collection Date: 9/16/17 9:56

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Metals by ICP-MS

*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 19:56	EPA200.8	JTC
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Client Sample ID: BCS-8B

Lab ID: 17I0523-16

Collection Date: 9/16/17 9:56

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Metals by ICP-MS

*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 20:00	EPA200.8	JTC
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Client Sample ID: BCS-9A

Lab ID: 17I0523-17

Collection Date: 9/16/17 9:57

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Metals by ICP-MS

*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 20:04	EPA200.8	JTC
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Client Sample ID: BCS-9B

Lab ID: 17I0523-18

Collection Date: 9/16/17 9:57

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Metals by ICP-MS

*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 20:09	EPA200.8	JTC
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Client Sample ID: BCS-10A

Lab ID: 17I0523-19

Collection Date: 9/16/17 9:59

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Metals by ICP-MS

*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 20:13	EPA200.8	JTC
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Client Sample ID: BCS-10B

Lab ID: 17I0523-20

Collection Date: 9/16/17 9:59

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
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Metals by ICP-MS

*Lead	U	2.00		µg/L	1	10/2/17 14:54	10/2/17 20:18	EPA200.8	JTC
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Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: Libertyville Distict 70/ Butterfield School

Lab Order: 17I0523

Client Sample ID: BCS-11A

Lab ID: 17I0523-21

Collection Date: 9/16/17 10:00

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 20:31	EPA200.8	JTC

Client Sample ID: BCS-11B

Lab ID: 17I0523-22

Collection Date: 9/16/17 10:00

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 20:57	EPA200.8	JTC

Client Sample ID: BCS-12A

Lab ID: 17I0523-23

Collection Date: 9/16/17 10:01

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:02	EPA200.8	JTC

Client Sample ID: BCS-12B

Lab ID: 17I0523-24

Collection Date: 9/16/17 10:01

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:06	EPA200.8	JTC

Client Sample ID: BKS-13A

Lab ID: 17I0523-25

Collection Date: 9/16/17 10:05

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	4.96	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:11	EPA200.8	JTC

Client Sample ID: BKS-13B

Lab ID: 17I0523-26

Collection Date: 9/16/17 10:05

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:15	EPA200.8	JTC

Client Sample ID: BKS-14A

Lab ID: 17I0523-27

Collection Date: 9/16/17 10:06

Matrix: Drinking Water

Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst
Metals by ICP-MS									
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:19	EPA200.8	JTC

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client:	Aires Consulting Group					Lab Order:	17I0523			
Project:	Libertyville Distict 70/ Butterfield School									
Client Sample ID:	BKS-14B					Lab ID:	17I0523-28			
Collection Date:	9/16/17 10:06					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:24	EPA200.8	JTC	
Client Sample ID:	BWF-15A					Lab ID:	17I0523-29			
Collection Date:	9/16/17 10:07					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:28	EPA200.8	JTC	
Client Sample ID:	BWF-15B					Lab ID:	17I0523-30			
Collection Date:	9/16/17 10:07					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:33	EPA200.8	JTC	
Client Sample ID:	BWF-16A					Lab ID:	17I0523-31			
Collection Date:	9/16/17 10:08					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 21:50	EPA200.8	JTC	
Client Sample ID:	BWF-16B					Lab ID:	17I0523-32			
Collection Date:	9/16/17 10:08					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:03	EPA200.8	JTC	
Client Sample ID:	BWF-16C					Lab ID:	17I0523-33			
Collection Date:	9/16/17 10:08					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:08	EPA200.8	JTC	
Client Sample ID:	BWF-17A					Lab ID:	17I0523-34			
Collection Date:	9/16/17 10:10					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	5.88	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:12	EPA200.8	JTC	

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client:	Aires Consulting Group									
Project:	Libertyville Distict 70/ Butterfield School					Lab Order:	17I0523			
Client Sample ID:	BWF-17A					Lab ID:	17I0523-34			
Collection Date:	9/16/17 10:10					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Client Sample ID:	BWF-17B					Lab ID:	17I0523-35			
Collection Date:	9/16/17 10:10					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:17	EPA200.8	JTC	
Client Sample ID:	BS-18A					Lab ID:	17I0523-36			
Collection Date:	9/16/17 10:15					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:21	EPA200.8	JTC	
Client Sample ID:	BS-18B					Lab ID:	17I0523-37			
Collection Date:	9/16/17 10:15					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:25	EPA200.8	JTC	
Client Sample ID:	BWF-19A					Lab ID:	17I0523-38			
Collection Date:	9/16/17 10:16					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:30	EPA200.8	JTC	
Client Sample ID:	BWF-19B					Lab ID:	17I0523-39			
Collection Date:	9/16/17 10:16					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	2.40	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:52	EPA200.8	JTC	
Client Sample ID:	BWF-20A					Lab ID:	17I0523-40			
Collection Date:	9/16/17 10:25					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	2.16	2.00		µg/L	1	10/2/17 14:58	10/2/17 22:56	EPA200.8	JTC	

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client:	Aires Consulting Group									
Project:	Libertyville Distict 70/ Butterfield School					Lab Order:	17I0523			
Client Sample ID:	BWF-20B					Lab ID:	17I0523-41			
Collection Date:	9/16/17 10:25					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:09	EPA200.8	JTC	
Client Sample ID:	BWF-21A					Lab ID:	17I0523-42			
Collection Date:	9/16/17 10:26					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:23	EPA200.8	JTC	
Client Sample ID:	BWF-21B					Lab ID:	17I0523-43			
Collection Date:	9/16/17 10:26					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:27	EPA200.8	JTC	
Client Sample ID:	BWF-21C					Lab ID:	17I0523-44			
Collection Date:	9/16/17 10:26					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:31	EPA200.8	JTC	
Client Sample ID:	BCS-22A					Lab ID:	17I0523-45			
Collection Date:	9/16/17 10:27					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	6.36	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:49	EPA200.8	JTC	
Client Sample ID:	BCS-22B					Lab ID:	17I0523-46			
Collection Date:	9/16/17 10:27					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:53	EPA200.8	JTC	
Client Sample ID:	BCS-23A					Lab ID:	17I0523-47			
Collection Date:	9/16/17 10:30					Matrix:	Drinking Water			
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst	
Metals by ICP-MS										
*Lead	4.08	2.00		µg/L	1	10/2/17 15:00	10/2/17 23:58	EPA200.8	JTC	

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client:	Aires Consulting Group					Lab Order:	17I0523				
Project:	Libertyville Distict 70/ Butterfield School										
Client Sample ID:	BCS-23B					Lab ID:	17I0523-48				
Collection Date:	9/16/17 10:30					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/3/17 0:02	EPA200.8	JTC		
Client Sample ID:	BCS-24A					Lab ID:	17I0523-49				
Collection Date:	9/16/17 10:31					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	3.45	2.00		µg/L	1	10/2/17 15:00	10/3/17 0:07	EPA200.8	JTC		
Client Sample ID:	BCS-24B					Lab ID:	17I0523-50				
Collection Date:	9/16/17 10:31					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/3/17 0:11	EPA200.8	JTC		
Client Sample ID:	BS-25A					Lab ID:	17I0523-51				
Collection Date:	9/16/17 10:32					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/3/17 0:15	EPA200.8	JTC		
Client Sample ID:	BS-25B					Lab ID:	17I0523-52				
Collection Date:	9/16/17 10:32					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/3/17 0:29	EPA200.8	JTC		
Client Sample ID:	BIF-26					Lab ID:	17I0523-53				
Collection Date:	9/16/17 10:45					Matrix:	Drinking Water				
Analyses	Result	Limit	Qual	Units	DF	Date Prepared	Date Analyzed	Method	Analyst		
Metals by ICP-MS											
*Lead	U	2.00		µg/L	1	10/2/17 15:00	10/3/17 0:46	EPA200.8	JTC		
Conventional Chemistry Parameters											
pH	8.13	0.0100		pH Units	1	9/16/17 10:45	9/16/17 10:45	EPA150.1			

Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: Libertyville District 70/ Butterfield School

Lab Order: 17I0523

Metals by ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A006081 - EPA 200.8 Metals

Blank (A006081-BLK1)

Prepared & Analyzed: 10/02/201

Lead	U	2.00	µg/L
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LCS (A006081-BS1)

Prepared & Analyzed: 10/02/201

Lead	489	2.00	µg/L	500.00	98	85-115
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Matrix Spike (A006081-MS1)

Source: 17I0523-01

Prepared & Analyzed: 10/02/201

Lead	471	2.00	µg/L	500.00	1.68	94	75-125
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Matrix Spike (A006081-MS2)

Source: 17I0523-11

Prepared & Analyzed: 10/02/201

Lead	473	2.00	µg/L	500.00	0.882	94	75-125
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Matrix Spike Dup (A006081-MSD1)

Source: 17I0523-01

Prepared & Analyzed: 10/02/201

Lead	482	2.00	µg/L	500.00	1.68	96	75-125	2	20
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Matrix Spike Dup (A006081-MSD2)

Source: 17I0523-11

Prepared & Analyzed: 10/02/201

Lead	480	2.00	µg/L	500.00	0.882	96	75-125	1	20
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Batch A006082 - EPA 200.8 Metals

Blank (A006082-BLK1)

Prepared & Analyzed: 10/02/201

Lead	U	2.00	µg/L
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LCS (A006082-BS1)

Prepared & Analyzed: 10/02/201

Lead	487	2.00	µg/L	500.00	97	85-115
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Matrix Spike (A006082-MS1)

Source: 17I0523-21

Prepared & Analyzed: 10/02/201

Lead	479	2.00	µg/L	500.00	0.839	96	75-125
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Prairie Analytical Systems, Inc.

Date: 10/5/2017

LABORATORY RESULTS

Client: Aires Consulting Group

Project: Libertyville District 70/ Butterfield School

Lab Order: 17I0523

Metals by ICP-MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch A006082 - EPA 200.8 Metals

Matrix Spike (A006082-MS2)		Source: 17I0523-31		Prepared & Analyzed: 10/02/201						
Lead	474	2.00	µg/L	500.00	ND	95	75-125			
Matrix Spike Dup (A006082-MSD1)		Source: 17I0523-21		Prepared & Analyzed: 10/02/201						
Lead	482	2.00	µg/L	500.00	0.839	96	75-125	0.5	20	
Matrix Spike Dup (A006082-MSD2)		Source: 17I0523-31		Prepared & Analyzed: 10/02/201						
Lead	480	2.00	µg/L	500.00	ND	96	75-125	1	20	

Batch A006083 - EPA 200.8 Metals

Blank (A006083-BLK1)		Prepared & Analyzed: 10/02/201								
Lead	U	2.00	µg/L							
LCS (A006083-BS1)		Prepared & Analyzed: 10/02/201								
Lead	484	2.00	µg/L	500.00		97	85-115			
Matrix Spike (A006083-MS1)		Source: 17I0523-41		Prepared & Analyzed: 10/02/201						
Lead	476	2.00	µg/L	500.00	1.51	95	75-125			
Matrix Spike (A006083-MS2)		Source: 17I0523-51		Prepared: 10/02/201 Analyzed: 10/03/201						
Lead	475	2.00	µg/L	500.00	0.775	95	75-125			
Matrix Spike Dup (A006083-MSD1)		Source: 17I0523-41		Prepared & Analyzed: 10/02/201						
Lead	472	2.00	µg/L	500.00	1.51	94	75-125	0.8	20	
Matrix Spike Dup (A006083-MSD2)		Source: 17I0523-51		Prepared: 10/02/201 Analyzed: 10/03/201						
Lead	479	2.00	µg/L	500.00	0.775	96	75-125	0.8	20	

Prairie Analytical Systems, Inc.**Date:** 10/5/2017

LABORATORY RESULTS

Client: Aires Consulting Group**Project:** Libertyville District 70/ Butterfield School**Lab Order:** 17I0523

Notes and Definitions

* NELAC certified compound.

U Analyte not detected (i.e. less than RL or MDL).

Chain of Custody Record

Central IL - 1210 Capital Airport Drive - Springfield, IL 62707-8490 - Phone (217) 753-1148 - Facsimile (217) 753-1152
 Chicago IL Office - 9114 Virginia Rd., Ste 112 - Lake in the Hills, IL 60156 - Phone (847) 651-2604 - Facsimile (847) 458-9680
 Central / Southern IL Contact - Phone (217) 414-7762 - Facsimile (217) 753-1152



Client		Aires Consulting - Gallagher Bassett				Analysis and/or Method Requested				Reporting	
Address		1550 Hubbard Ave				Lead in Drinking Water - IL				TACO	
City, State, Zip Code		Batavia, IL 60510								Residential	
Phone / Facsimile		630.879.3006								Industrial / Commercial	
Project Name / Number		Libertyville District 70								A ☐ D ☐	
Project Location		Butterfield School								B ☐ E ☐	
P.O. # or Invoice To		17-18331				C ☐ F ☐				Residential	
Contact Person		Geoff Bacci II				RISC				Industrial	
Sample Description		Sampling Date		Matrix Code		Preserv Code		No. of Containers		Sample Type	
		Time								Comp Grab	
See attached Addendum (3 pages) for sample information (153 samples)											
Unless otherwise noted: Matrix Code: DW Preservative Code: 0 No. of containers per sample: 1 Sample Type: Grab Analysis requested: Lead in Drinking Water											
Matrix Code		A - Aqueous		DW - Drinking Water		GW - Ground Water		NA - Non-Aqueous Liquid		S - Solid	
Preservative Code		0 - None		1 - HCl		2 - H2SO4		3 - HNO3		4 - NaOH	
Received By		Date		Time		Received By		Date		Time	
C. Bacci		9/18/17		2:00		L. Bacci		9/18/17		2:00pm	
B. Bacci		9/19/17		1315		M. Bacci		9/19/17		1315	
S. Bacci		9/20/17		1700		J. Bacci		9-21-17		10:45	
Instructions:										UPS	
Turnaround Time: Standard		Rush		QC Level		On wet ice?		Temperature (°C)			
Date Required:											

Appendix II

Revision 2010
 July 31, 2017

Page 1 of 4

Copies: White - Client / Yellow - PAS, Inc. / Pink - Sampler
 PAS COC - Aires

340490700022002

ISBE ID:

Building ID:

Building Description: Butterfield School

Sample Collection Date:

9/16/17

Collected by:

Dan Petras

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
9:32 AM	BS-1A	Nurse's office	S - Sink	9/15/2017	6:00 PM	First Draw	250	
9:33 AM	BS-1B	Nurse's office	S - Sink	9/15/2017	6:00 PM	Flush	250	
9:35 AM	BS-2A	Nurse's office bathroom	S - Sink	9/15/2017	6:00 PM	First Draw	250	
9:35 AM	BS-2B	Nurse's office bathroom	S - Sink	9/15/2017	6:00 PM	Flush	250	
9:36 AM	BS-3A	Nurse's office	O - Other	9/15/2017	6:00 PM	First Draw	250	Fridge water dispenser
9:36 AM	BS-3B	Nurse's office	O - Other	9/15/2017	6:00 PM	Flush	250	Fridge water dispenser
9:37 AM	BWF-4A	Outside nurses office	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
9:37 AM	BWF-4B	Outside nurses office	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
9:48 AM	BWF-5A	Near entrance 3	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
9:48 AM	BWF-5B	Near entrance 3	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
9:50 AM	BWF-6A	Across from room 101	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
9:51 AM	BWF-6B	Across from room 101	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
9:55 AM	BCS-7A	Art room	S - Sink	9/15/2017	6:00 PM	First Draw	250	
9:55 AM	BCS-7B	Art room	S - Sink	9/15/2017	6:00 PM	Flush	250	
9:56 AM	BCS-8A	Art room	S - Sink	9/15/2017	6:00 PM	First Draw	250	
9:56 AM	BCS-8B	Art room	S - Sink	9/15/2017	6:00 PM	Flush	250	
9:57 AM	BCS-9A	Art room	S - Sink	9/15/2017	6:00 PM	First Draw	250	
9:57 AM	BCS-9B	Art room	S - Sink	9/15/2017	6:00 PM	Flush	250	
9:59 AM	BCS-10A	Room 105-A	S - Sink	9/15/2017	6:00 PM	First Draw	250	
9:59 AM	BCS-10B	Room 105-A	S - Sink	9/15/2017	6:00 PM	Flush	250	
10:00 AM	BCS-11A	Room 104	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:00 AM	BCS-11B	Room 104	S - Sink	9/15/2017	6:00 PM		250	
10:01 AM	BCS-12A	Room 103	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:01 AM	BCS-12B	Room 103	S - Sink	9/15/2017	6:00 PM	Flush	250	
10:05 AM	BKS-13A	Kitchen	KS - Kitchen Sink	9/15/2017	6:00 PM	First Draw	250	
10:05 AM	BKS-13B	Kitchen	KS - Kitchen Sink	9/15/2017	6:00 PM	Flush	250	

Field Collection - CoC Addition

PAS CoC - Aires

Page 2 of 4

Revision 8
July 31, 2017

ISBE ID: 340490700022002

0001

Building ID:

Building Description: Butterfield School

Sample Collection Date: 9.16.17

Collected by: Dan Petras

Sample Time (12 HR Clock)	Sample ID Number	Sample Location Description	Fixture Type	Date of Last Use	Time of Last Use (12 HR Clock)	Sample Type	Sample Volume (mL)	Notes
10:06 AM	BKS-14A	Kitchen	KS - Kitchen Sink	9/15/2017	6:00 PM	First Draw	250	
10:06 AM	BKS-14B	Kitchen	KS - Kitchen Sink	9/15/2017	6:00 PM	Flush	250	
10:07 AM	BWF-15A	Commons	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
10:07 AM	BWF-15B	Commons	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
10:08 AM	BWF-16A	Commons	WF - Water Cooler	9/15/2017	6:00 PM	First Draw	250	
10:08 AM	BWF-16B	Commons	WF - Water Cooler	9/15/2017	6:00 PM	Flush	250	
10:08 AM	BWF-16C	Commons	O - Other	9/15/2017	6:00 PM	First Draw	250	bottle fill
10:10 AM	BWF-17A	Outside media center by girls bath	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
10:10 AM	BWF-17B	Outside media center by girls bath	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
10:15 AM	BS-18A	Media center	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:15 AM	BS-18B	Media center	S - Sink	9/15/2017	6:00 PM	Flush	250	
10:16 AM	BWF-19A	Outside media center by boys bath	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
10:16 AM	BWF-19B	Outside media center by boys bath	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
10:25 AM	BWF-20A	Outside boys 600 bathroom	DF - Drinking Fountain	9/15/2017	6:00 PM	First Draw	250	
10:25 AM	BWF-20B	Outside boys 600 bathroom	DF - Drinking Fountain	9/15/2017	6:00 PM	Flush	250	
10:26 AM	BWF-21A	Outside girls 600 bathroom	WF - Water Cooler	9/15/2017	6:00 PM	First Draw	250	
10:26 AM	BWF-21B	Outside girls 600 bathroom	WF - Water Cooler	9/15/2017	6:00 PM	Flush	250	
10:26 AM	BWF-21C	Outside girls 600 bathroom	O - Other	9/15/2017	6:00 PM	First Draw	250	bottle fill
10:27 AM	BCS-22A	Room 606	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:27 AM	BCS-22B	Room 606	S - Sink	9/15/2017	6:00 PM	Flush	250	
10:30 AM	BCS-23A	Room 602	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:30 AM	BCS-23B	Room 602	S - Sink	9/15/2017	6:00 PM	Flush	250	
10:31 AM	BCS-24A	Room 603	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:31 AM	BCS-24B	Room 603	S - Sink	9/15/2017	6:00 PM	Flush	250	
10:32 AM	BS-25A	Room 605	S - Sink	9/15/2017	6:00 PM	First Draw	250	
10:32 AM	BS-25B	Room 605	S - Sink	9/15/2017	6:00 PM	Flush	250	

ISBE ID:

Building ID:

Building Description:

Sample Collection Date:

Collected by:

[illegible]