



April 26, 2024

Steve Aldrich
Director of Facilities and Grounds
Liberty School District
801 Kent Street
Liberty, Missouri 64068

Project: Limited Lead in Drinking Water Testing
Address: 1115 Blackberry Drive, Liberty, Missouri 64068

Mr. Steve Aldrich

On March 22, 2024, Bradly Young of Axiom Service Professionals (ASP), conducted lead in drinking water sampling at the above referenced address. Inspector certification is provided in Appendix A. A total of 28 samples were collected from various potential drinking water outlets including sources used for drinking, cooking, or cleaning of cooking and eating utensils throughout the building.

Drinking Water Standards

The use of lead solder and other lead-containing materials as defined in the EPA Safe Drinking Water Act in connecting household plumbing to public water supplies was prohibited as of 1986. The act established the definition of "lead free" to be less than 8% as a weighted average across wetted surfaces of a pipe, pipe fitting, plumbing fitting, and fixture and 0.2% lead for solder and flux. In 2011, the definition of "lead free" as it applied to wetted surfaces of a pipe, pipe fitting, and plumbing fitting and fixture was reduced from 8% to 0.25% as a weighted average. Many older structures still have lead pipe or lead-soldered plumbing internally, which may substantially increase the lead content of water at the tap. Nationwide regulations controlling the lead content of drinking-water coolers in schools went into effect in 1989.

In 1991, the EPA published the Lead and Copper Rule establishing limits on the amount of lead and copper in drinking water. This regulation can be found under 40 CFR Part 141, Subpart I. Reference: <https://www.epa.gov/dwreginfo/lead-and-copper-rule>

The EPA has set lead in drinking water standards as outlined below.

- For lead, the maximum contaminant level goal (MCLG) is zero. This is the levels determined to be safe by toxicological and biomedical considerations, independent of feasibility. EPA's National Primary Drinking Water Regulations for Lead establish a treatment level of **0.015 mg/L** or **15 ppb** (parts per billion) in municipal drinking water systems.

The Missouri Senate Bill 681 “Get the Lead Out of School Drinking Water Act”, passed in 2022, has set the standard summarized below.

Reference: https://www.senate.mo.gov/22info/BTS_Web/Bill.aspx?SessionType=R&BillID=71259862

- On or before January 1, 2024, each school shall conduct an inventory of all drinking water outlets and all outlets that are used for dispensing water for cooking or for cleaning cooking and eating utensils in each of the school's buildings. A plan for testing should then be developed, prioritizing early childhood education programs and elementary schools, and made available to the public.
- The bill outlines that beginning in the 2023-2024 school year and for each subsequent school year, each school shall provide drinking water with a lead concentration below five parts per billion (**5 ppb**). Any school with greater than or equal to 5 ppb shall provide results and remediation plans to parents and staff within 7 business days of receiving results.

Drinking Fountain Identification

Drinking fountains throughout the school were visually assessed to determine if they matched those listed by the EPA to be lead-containing. The list of drinking fountains reported by the EPA to contain lead-lined holding tanks or solder joints is presented as Appendix B. Below is a list of drinking fountains within the school that match those reported by the EPA to be lead-containing.

Location	Make	Model #	Serial #
None Matching			

Water Sampling Methods:

Water samples were collected from each selected location as “first draw” and/or “flush”. First draw samples typically represent worst case sample results. A flush sample is typically collected to determine if an elevation is originating beyond the fixture in the fixture supply line or beyond. Samples were deposited into a non-preserved 250-milliliter sterile Nalgene screw top bottle. Immediately following sample collection, the samples were delivered to Keystone Laboratories located at 8857 Long Street, Lenexa, Kansas 66215. Upon arrival at the laboratory, samples were preserved through addition of nitric acid.

Keystone Laboratories is accredited through the Missouri Department of Natural Resources for analysis of lead in water.

Below is a summary of the water sampling results as reported in Appendix C by Keystone Laboratories. Results exceeding the applicable drinking water standards are shown in **red text**.

March 22, 2024 Water Sampling Results:

Sample #	Location	Source Under Test	Test Type	Lead Result (ppb)
1115-1-FD	Liberty Academy - 001905-1st Floor Commons-Boys-Left	Sink Tap	First Draw	0.5
1115-2-FD	Liberty Academy - 002523-1st Floor Commons-Boys-Right	Sink Tap	First Draw	0.4
1115-3-FD	Liberty Academy - 001904-1st Floor Commons-Left	Drinking Fountain	First Draw	<0.4
1115-4-FD	Liberty Academy - 001904-1st Floor Commons-Right	Drinking Fountain	First Draw	<0.4
1115-5-FD	Liberty Academy - 001907-1st Floor Commons-Girls	Sink Tap	First Draw	<0.4
1115-6-FD	Liberty Academy - 001900-Staff Lounge	Sink Tap	First Draw	<0.4
1115-7-FD	Liberty Academy - 001899-Room 105	Sink Tap	First Draw	<0.4

Sample #	Location	Source Under Test	Test Type	Lead Result (ppb)
1115-8-FD	Liberty Academy - 001919-1st Floor Restroom-Unisex	Sink Tap	First Draw	<0.4
1115-9-FD	Liberty Academy - 001920-1st Floor-Staff Restroom	Sink Tap	First Draw	<0.4
1115-10-FD	Liberty Academy - 001914-2nd Floor Hallway-Left	Drinking Fountain	First Draw	<0.4
1115-11-FD	Liberty Academy - 001914-2nd Floor Hallway-Right	Drinking Fountain	First Draw	<0.4
1115-12-FD	Liberty Academy - 001915-2nd Floor-Girls-Right	Sink Tap	First Draw	<0.4
1115-13-FD	Liberty Academy - 001916-2nd Floor-Girls-Left	Sink Tap	First Draw	<0.4
1115-14-FD	Liberty Academy - 001917-2nd Floor- Boys-Left	Sink Tap	First Draw	0.4
1115-15-FD	Liberty Academy - 001918-2nd Floor-Boys-Right	Sink Tap	First Draw	<0.4
1115-16-FD	Liberty Academy - 001913-2nd Floor Lounge	Sink Tap	First Draw	<0.4
1115-17-FD	Liberty Academy - 002227-2nd Floor Lounge	Ice Machine	First Draw	<0.4
1115-18-FD	Liberty Academy - 001903-200s Hallway-Left	Drinking Fountain	First Draw	<0.4
1115-19-FD	Liberty Academy - 001903-200s Hallway-Right	Drinking Fountain	First Draw	<0.4
1115-20-FD	Liberty Academy - 002226-By 206-Staff Restroom	Sink Tap	First Draw	<0.4
1115-21-FD	Liberty Academy - 001902-Room 206	Sink Tap	First Draw	<0.4
1115-22-FD	Liberty Academy - 001901-Room 202	Sink Tap	First Draw	<0.4
1115-23-FD	Liberty Academy - 001908-Room 109	Sink Tap	First Draw	<0.4
1115-24-FD	Liberty Academy - 001909-Room 109-Restroom	Sink Tap	First Draw	<0.4
1115-25-FD	Liberty Academy - 001910-Room 109	Drinking Fountain	First Draw	<0.4
1115-26-FD	Liberty Academy - 001911-Room 110	Sink Tap	First Draw	<0.4
1115-27-FD	Liberty Academy - 001912-Room 110-Restroom	Sink Tap	First Draw	<0.4
1115-28-FD	Liberty Academy - 002225-Room 110	Drinking Fountain	First Draw	<0.4

Photos of the sampling locations are provided in Appendix D. A diagram containing identifiers on the outlets tested is provided in Appendix E.

Required Communication

- Contact staff and parents via written notification within seven (7) business days after receiving the test result.
- The notification shall include at least:
 - The test results and a summary that explains such results;
 - A description of any remedial steps taken; and
 - A description of general health effects of lead contamination and community specific resources; and
- Provide bottled water if there is not enough water to meet the drinking water needs of the students, teachers, and staff.
- Submit such annual testing results to the Missouri Department of Health and Senior Services (DHSS).
- Before August 1, 2024, or the first day on which students will be present in the building, whichever is later, and annually thereafter, each school shall conduct testing for lead by first-draw and follow-up flush samples of a random sampling of at least twenty-five percent (25%) of remediated drinking water outlets until all remediated sources have been tested as recommended by the 2018 version of the United States Environmental Protection Agency's "Training, Testing, and Taking Action" program. The testing shall be conducted and the results analyzed for both types of tests by an entity or entities approved by the department.
- Any measures taken to remediate any elevated lead levels identified must be recorded and documented.

General Recommendations

- Retesting of all potential cooking and drinking water sources is required five (5) years from previous testing completed.
- If the condition changes or significant alterations to existing plumbing is undertaken, consider performing additional lead in drinking water sampling.
- Ensure that the plumbing system is not used as an electrical ground.
- If equipment is added that could affect water pH, alkalinity, or hardness, consider performing lead in drinking water sampling.

Any work resulting from this report should be conducted in accordance with the EPA Safe Drinking Water Act, Missouri SB 681 & 662, HUD Lead Regulations 24 CFR 35, EPA Lead Regulations 40 CFR 745, and Consumer Product Safety Commission document #5056.

If you have any questions concerning this report, please contact me at 816-678-7894.

Sincerely,



Jeff Hurst
Axiom Service Professionals LLC
jeffh@axiomservicepros.com

Limitations Drinking Water Testing

The presence or absence of lead and copper (if collected) in drinking water applies only to the test locations on the date of the field visit and it should be understood that conditions may change due to deterioration, pH, alkalinity, hardness, use levels, or maintenance. The results noted within this report were accurate at the time of the evaluation and in no way reflect the conditions at the property before or after the date of the evaluation. No other environmental concerns or conditions were addressed during this evaluation.

Appendix A Certifications

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Bradly A. Young

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Inspector
Category of License

Issuance Date: 10/4/2023
Expiration Date: 10/4/2025
License Number: 211004-300006201



Paula F. Nickelson

Paula F. Nickelson
Director

Department of Health and Senior Services

Lead Licensing Program, PO Box 570, Jefferson City, MO 65102

STATE OF MISSOURI
DEPARTMENT OF HEALTH AND SENIOR SERVICES

LEAD OCCUPATION LICENSE REGISTRATION

Issued to:

Jeffrey A. Hurst

The person, firm or corporation whose name appears on this certificate has fulfilled the requirements for licensure as set forth in the Missouri Revised Statutes 701.300-701.338, as long as not suspended or revoked, and is hereby authorized to engage in the activity listed below.

Lead Risk Assessor
Category of License

Issuance Date: **8/1/2022**
Expiration Date: **8/1/2024**
License Number: **000801-200166567**



**Missouri Department of Health
and Senior Services**

Lead Occupation License - ID Badge

License Number:

000801-200166567

Lead Risk Assessor

**Jeffrey
Hurst**

Expiration Date: 8/1/2024

Paula F. Nickelson

**Paula F. Nickelson
Acting Director**

Department of Health and Senior Services

Jefferson City, MO 65102

Appendix B
EPA Listed Lead Containing Drinking Fountains

Table C-1
Water Coolers With Other Lead Components

EBCO Manufacturing

- All pressure bubbler water coolers with shipping dates from 1962 through 1977 have a bubbler valve containing lead. The units contain a single, 50-50 tin-lead solder joint on the bubbler valve. Model numbers for coolers in this category are not available.
- The following models of pressure bubbler coolers produced from 1978 through 1981 contain one 50-50 tin-lead solder joint each.

CP3	DP15W	DPM8	7P	13P	DPM8H	DP15M	DP3R	DP8A
DP16M	DP5S	C10E	PX-10	DP7S	DP13SM	DP7M	DP7MH	DP7WD
WTC10	DP13M-60	DP14M	CP10-50	CP5	CP5M	DP15MW	DP3R	DP14S
DP20-50	DP7SM	DP10X	DP13A	DP13A-50	EP10F	DP5M	DP10F	CP3H
CP3-50	DP13M	DP3RH	DP5F	CP3M	EP5F	13PL	DP8AH	DP13S
CP10	DP20	DP12N	DP7WM	DP14A-50/60				

Halsey Taylor

- Lead solder was used in these models of water coolers manufactured between 1978 and the last week of 1987:

WMA-1	SCWT/SCWT-A	SWA-1	DC/DHC-1
S3/5/10D	BFC-4F/7F/4FS/7FS	S300/500/100D	

- The following coolers manufactured for Haws Drinking Faucet Company (Haws) by Halsey Taylor from November 1984 through December 18, 1987 are not lead-free because they contain 2 tin-lead solder joints. The model designations for these units are as follows:

HC8WT	HC14F	HC6W	HWC7D	HC8WTH	HC14FH	HC8W	HC2F	HC14WT
HC14FL	HC14W	HC2FH	HC14WTH	HC8FL	HC4F	HC5F	HC14WL	HCBF7D
HC4FH	HC10F	HC16WT	HCBF7HO	HC8F	HC8FH	HC4W	HWC7	

Table C-2
Halsey Taylor Water Coolers With Lead-Lined Tanks

- The following six model numbers have one or more units in the model series with lead-lined tanks:

WM8A WT8A GC10ACR GC10A GC5A RWM13A

- The following models and serial numbers contain lead-lined tanks:

WM14A Serial No. 843034	WM14A Serial No. 843006	WT11A Serial No. 222650
WT21A Serial No. 64309550	WT21A Serial No. 64309542	LL14A Serial No. 64346908

Appendix C

Laboratory Analytical Report



Microbac Laboratories, Inc., Lenexa

CERTIFICATE OF ANALYSIS

3HC0137

AXIOM Service Professionals

Jeff Hurst
PO Box 47166
Kansas City, MO 64188

Project Name: 1115 Blackberry Drive

Project / PO Number: 1115 Blackberry Drive
Received: 03/22/2024
Reported: 04/08/2024

Analytical Testing Parameters

Client Sample ID: 1115-1-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-01

Collected By: Bradley Young
Collection Date: 03/22/2024 0:30

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	0.5	0.4	ppb	2		04/05/24 0936	04/06/24 0053	RVV

Client Sample ID: 1115-2-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-02

Collected By: Bradley Young
Collection Date: 03/22/2024 0:30

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0108	RVV

Client Sample ID: 1115-3-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-03

Collected By: Bradley Young
Collection Date: 03/22/2024 0:30

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0117	RVV

Client Sample ID: 1115-4-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-04

Collected By: Bradley Young
Collection Date: 03/22/2024 0:31

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0120	RVV



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CERTIFICATE OF ANALYSIS

3HC0137

Client Sample ID: 1115-5-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-05

Collected By: Bradley Young
Collection Date: 03/22/2024 0:31

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0123	RVV

Client Sample ID: 1115-6-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-06

Collected By: Bradley Young
Collection Date: 03/22/2024 0:32

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0126	RVV

Client Sample ID: 1115-7-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-07

Collected By: Bradley Young
Collection Date: 03/22/2024 0:32

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0129	RVV

Client Sample ID: 1115-8-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-08

Collected By: Bradley Young
Collection Date: 03/22/2024 0:34

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0138	RVV

Client Sample ID: 1115-9-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-09

Collected By: Bradley Young
Collection Date: 03/22/2024 0:34

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0141	RVV

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Client Sample ID: 1115-10-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-10

Collected By: Bradley Young
Collection Date: 03/22/2024 0:35

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0144	RVV

Client Sample ID: 1115-11-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-11

Collected By: Bradley Young
Collection Date: 03/22/2024 0:35

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0147	RVV

Client Sample ID: 1115-12-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-12

Collected By: Bradley Young
Collection Date: 03/22/2024 0:35

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0150	RVV

Client Sample ID: 1115-13-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-13

Collected By: Bradley Young
Collection Date: 03/22/2024 0:36

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0153	RVV

Client Sample ID: 1115-14-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-14

Collected By: Bradley Young
Collection Date: 03/22/2024 0:36

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0156	RVV

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Client Sample ID: 1115-15-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-15

Collected By: Bradley Young
Collection Date: 03/22/2024 0:36

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0159	RVV

Client Sample ID: 1115-16-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-16

Collected By: Bradley Young
Collection Date: 03/22/2024 0:37

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0202	RVV

Client Sample ID: 1115-17-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-17

Collected By: Bradley Young
Collection Date: 03/22/2024 0:37

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0205	RVV

Client Sample ID: 1115-18-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-18

Collected By: Bradley Young
Collection Date: 03/22/2024 0:39

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0214	RVV

Client Sample ID: 1115-19-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-19

Collected By: Bradley Young
Collection Date: 03/22/2024 0:39

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0217	RVV

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CERTIFICATE OF ANALYSIS

3HC0137

Client Sample ID: 1115-20-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-20

Collected By: Bradley Young
Collection Date: 03/22/2024 0:39

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0220	RVV

Client Sample ID: 1115-21-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-21

Collected By: Bradley Young
Collection Date: 03/22/2024 0:40

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0222	RVV

Client Sample ID: 1115-22-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-22

Collected By: Bradley Young
Collection Date: 03/22/2024 0:40

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0231	RVV

Client Sample ID: 1115-23-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-23

Collected By: Bradley Young
Collection Date: 03/22/2024 0:43

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0240	RVV

Client Sample ID: 1115-24-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-24

Collected By: Bradley Young
Collection Date: 03/22/2024 0:43

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0249	RVV

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CERTIFICATE OF ANALYSIS

3HC0137

Client Sample ID: 1115-25-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-25

Collected By: Bradley Young
Collection Date: 03/22/2024 0:43

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0252	RVV

Client Sample ID: 1115-26-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-26

Collected By: Bradley Young
Collection Date: 03/22/2024 0:44

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0255	RVV

Client Sample ID: 1115-27-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-27

Collected By: Bradley Young
Collection Date: 03/22/2024 0:44

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0258	RVV

Client Sample ID: 1115-28-FD
Sample Matrix: Drink Wtr
Lab Sample ID: 3HC0137-28

Collected By: Bradley Young
Collection Date: 03/22/2024 0:45

Analyses Performed by: Microbac Laboratories, Inc., Newton

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.8								
Lead, total	<0.4	0.4	ppb	2		04/05/24 0936	04/06/24 0301	RVV

Definitions

RL: Reporting Limit

Report Comments

Reviewed and Approved By:

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Victoria Bruck
Field Technician II
04/08/24 15:23

Keystone

LABORATORIES
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600 E. 17th St. S
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Phone: 913-321-7856

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Phone: 641-437-7023

X

PRINT OR TYPE INFO BELOW:		REPORT TO:		BILL TO:	
SAMPLER: <u>Bradly Young</u>		NAME: <u>Jeff Hurst</u>		NAME: <u>Jeff Hurst</u>	
SITE NAME:		CO. NAME:		CO. NAME:	
ADDRESS: <u>1115 Blackberry Drive</u>		ADDRESS: <u>PO Box 47166</u>		ADDRESS: <u>PO Box 47166</u>	
CITY/ST/ZIP: <u>Liberty, Missouri 64068</u>		CITY/ST/ZIP: <u>Kansas City, Missouri 64188</u>		CITY/ST/ZIP: <u>Kansas City, Missouri 64188</u>	
PHONE: <u>816-522-2275</u>		PHONE: <u>816-678-7894</u>		PHONE: <u>816-678-7894</u>	
		EMAIL: <u>jeffh@axiomservicepros.com</u>		EMAIL: <u>jeffh@axiomservicepros.com</u>	

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED								LAB USE ONLY	
							Lead								Wk Order #:	
															Short Hold:	
															Rush:	
															Temp: oC	19.0
															Sample Condition	Sample #
1115-1-FD	3/22/2024	00:30	Liberty Academy - Sink Tap - 001905-1st Floor Commons-Boys-Left	1	Wt	Grab	X									01
1115-2-FD	3/22/2024	00:30	Liberty Academy - Sink Tap - 002523-1st Floor Commons-Boys-Right	1	Wt	Grab	X									02
1115-3-FD	3/22/2024	00:30	Liberty Academy - Drinking Fountain - 001904-1st Floor Commons-Left	1	Wt	Grab	X									03
1115-4-FD	3/22/2024	00:31	Liberty Academy - Drinking Fountain - 001904-1st Floor Commons-Right	1	Wt	Grab	X									04
1115-5-FD	3/22/2024	00:31	Liberty Academy - Sink Tap - 001907-1st Floor Commons-Girls	1	Wt	Grab	X									05
1115-6-FD	3/22/2024	00:32	Liberty Academy - Sink Tap - 001900-Staff Lounge	1	Wt	Grab	X									06
1115-7-FD	3/22/2024	00:32	Liberty Academy - Sink Tap - 001899-Room 105	1	Wt	Grab	X									07

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	Time:			Time:		
Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		
	Time:			Time:		



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PM: Carolyn Jackson

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 835 S St. Paul
 Kansas City, KS 66105
 Phone: 913-321-7856

 205 E Van Buren St
 Centerville, IA 52544
 Phone: 641-437-7023


PRINT OR TYPE INFO BELOW:		REPORT TO:		BILL TO:	
SAMPLER:		NAME:	Jeff Hurst	NAME:	Jeff Hurst
SITE NAME:		CO. NAME:		CO. NAME:	
ADDRESS:	1115 Blackberry Drive	ADDRESS:	PO Box 47166	ADDRESS:	PO Box 47166
CITY/ST/ZIP:	Liberty, Missouri 64068	CITY/ST/ZIP:	Kansas City, Missouri 64188	CITY/ST/ZIP:	Kansas City, Missouri 64188
PHONE:	816-522-2275	PHONE:	816-678-7894	PHONE:	816-678-7894
		EMAIL:	jeffh@axiomservicepros.com	EMAIL:	jeffh@axiomservicepros.com

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED							LAB USE ONLY	
							Lead							Wk Order #:	
														Short Hold:	
														Rush:	
														Temp: oC	
														Sample Condition	Sample #
1115-8-FD	3/22/2024	00:34	Liberty Academy - Sink Tap - 001919-1st Floor Restroom-Unisex	1	Wt	Grab	X								08
1115-9-FD	3/22/2024	00:34	Liberty Academy - Sink Tap - 001920-1st Floor-Staff Restroom	1	Wt	Grab	X								09
1115-10-FD	3/22/2024	00:35	Liberty Academy - Drinking Fountain - 001914-2nd Floor Hallway-Left	1	Wt	Grab	X								10
1115-11-FD	3/22/2024	00:35	Liberty Academy - Drinking Fountain - 001914-2nd Floor Hallway-Right	1	Wt	Grab	X								11
1115-12-FD	3/22/2024	00:35	Liberty Academy - Sink Tap - 001915-2nd Floor-Girls-Right	1	Wt	Grab	X								12
1115-13-FD	3/22/2024	00:36	Liberty Academy - Sink Tap - 001916-2nd Floor-Girls-Left	1	Wt	Grab	X								13
1115-14-FD	3/22/2024	00:36	Liberty Academy - Sink Tap - 001917-2nd Floor-Boys-Left	1	Wt	Grab	X								14

Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		Remarks:
	Time:			Time:		
Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		
	Time:			Time:		



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PRINT OR TYPE INFO BELOW:

SAMPLER: _____
SITE NAME: _____
ADDRESS: 1115 Blackberry Drive
CITY/ST/ZIP: Liberty, Missouri 64068
PHONE: 816-522-2275

REPORT TO:

NAME: Jeff Hurst
CO. NAME: _____
ADDRESS: PO Box 47166
CITY/ST/ZIP: Kansas City, Missouri 64188
PHONE: 816-678-7894
EMAIL: jeffh@axiomservicepros.com

BILL TO:

NAME: Jeff Hurst
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EMAIL: jeffh@axiomservicepros.com

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED							LAB USE ONLY	
							Lead							Wk Order #:	
														Short Hold:	
														Rush:	
														Temp: oC	
														Sample Condition	Sample #
1115-15-FD	3/22/2024	00:36	Liberty Academy - Sink Tap - 001918-2nd Floor-Boys-Right	1	Wt	Grab	X								15
1115-16-FD	3/22/2024	00:37	Liberty Academy - Sink Tap - 001913-2nd Floor Lounge	1	Wt	Grab	X								16
1115-17-FD	3/22/2024	00:37	Liberty Academy - Ice Machine - 002227-2nd Floor Lounge	1	Wt	Grab	X								17
1115-18-FD	3/22/2024	00:39	Liberty Academy - Drinking Fountain - 001903-200s Hallway-Left	1	Wt	Grab	X								18
1115-19-FD	3/22/2024	00:39	Liberty Academy - Drinking Fountain - 001903-200s Hallway-Right	1	Wt	Grab	X								19
1115-20-FD	3/22/2024	00:39	Liberty Academy - Sink Tap - 002226-By 206-Staff Bathroom	1	Wt	Grab	X								20
1115-21-FD	3/22/2024	00:40	Liberty Academy - Sink Tap - 001902-Room 206	1	Wt	Grab	X								21

Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		Remarks:
	Time:			Time:		
Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		
	Time:			Time:		



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SAMPLER: _____
SITE NAME: _____
ADDRESS: 1115 Blackberry Drive
CITY/ST/ZIP: Liberty, Missouri 64068
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REPORT TO:

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PHONE: 816-678-7894
EMAIL: jeffh@axiomservicepros.com

CLIENT SAMPLE #	DATE	TIME		# OF CONTAINERS	MATRIX	GRAB/COMPOSITE	ANALYSES REQUIRED							LAB USE ONLY	
							Lead							Wk Order #:	
														Short Hold:	
														Rush:	
														Temp: oC	
														Sample Condition	Sample #
1115-22-FD	3/22/2024	00:40	Liberty Academy - Sink Tap - 001901-Room 202	1	Wt	Grab	X								22
1115-23-FD	3/22/2024	00:43	Liberty Academy - Sink Tap - 001908-Room 109	1	Wt	Grab	X								23
1115-24-FD	3/22/2024	00:43	Liberty Academy - Sink Tap - 001909-Room 109-Bathroom	1	Wt	Grab	X								24
1115-25-FD	3/22/2024	00:43	Liberty Academy - Drinking Fountain - 001910-Room 109	1	Wt	Grab	X								25
1115-26-FD	3/22/2024	00:44	Liberty Academy - Sink Tap - 001911-Room 110	1	Wt	Grab	X								26
1115-27-FD	3/22/2024	00:44	Liberty Academy - Sink Tap - 001912-Room 110-Bathroom	1	Wt	Grab	X								27
1115-28-FD	3/22/2024	00:45	Liberty Academy - Drinking Fountain - 002225-Room 110	1	Wt	Grab	X								28

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	Time:			Time:		
Relinquished by: (Signature)	Date:		Received by: (Signature)	Date:		
	Time:			Time:		



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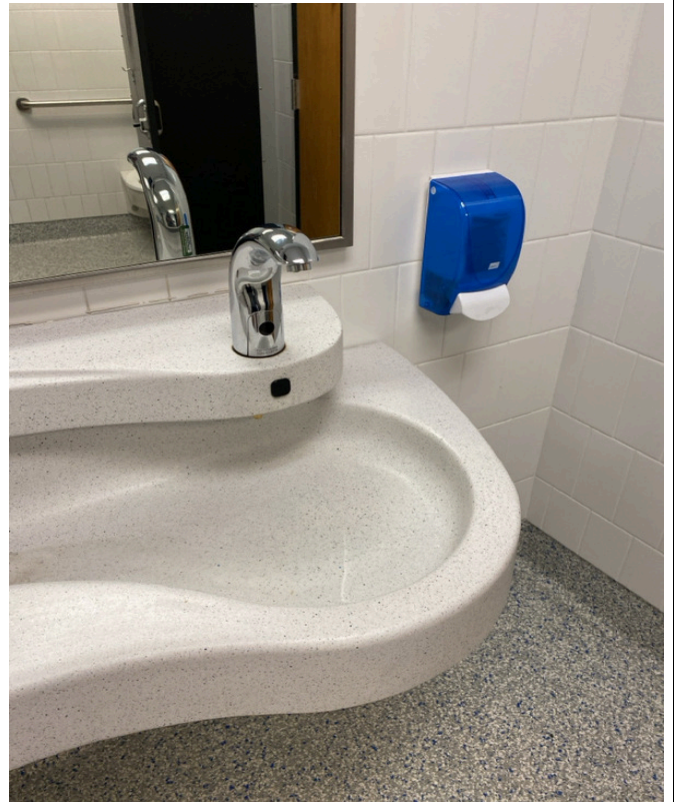
PM: Carolyn Jackson

Appendix D

Photo Log



3/22/2024 - 1115-1 - Liberty Academy - 001905-
1st Floor Commons-Boys-Left



3/22/2024 - 1115-2 - Liberty Academy - 002523-
1st Floor Commons-Boys-Right



3/22/2024 - 1115-3 - Liberty Academy - 001904-
1st Floor Commons-Left



3/22/2024 - 1115-4 - Liberty Academy - 001904-
1st Floor Commons-Right



3/22/2024 - 1115-5 - Liberty Academy - 001907-
1st Floor Commons-Girls



3/22/2024 - 1115-6 - Liberty Academy - 001900-
Staff Lounge



3/22/2024 - 1115-7 - Liberty Academy - 001899-
Room 105



3/22/2024 - 1115-8 - Liberty Academy - 001919-
1st Floor Restroom-Unisex



3/22/2024 - 1115-9 - Liberty Academy - 001920-
1st Floor-Staff Restroom



3/22/2024 - 1115-10 - Liberty Academy - 001914-
2nd Floor Hallway-Left



3/22/2024 - 1115-11 - Liberty Academy - 001914-
2nd Floor Hallway-Right



3/22/2024 - 1115-12 - Liberty Academy - 001915-
2nd Floor-Girls-Right



3/22/2024 - 1115-12 - Liberty Academy - 001915-
2nd Floor-Girls-Right



3/22/2024 - 1115-13 - Liberty Academy - 001916-
2nd Floor-Girls-Left



3/22/2024 - 1115-14 - Liberty Academy - 001917-
2nd Floor- Boys-Left



3/22/2024 - 1115-15 - Liberty Academy - 001918-
2nd Floor-Boys-Right



3/22/2024 - 1115-16 - Liberty Academy - 001913-
2nd Floor Lounge



3/22/2024 - 1115-17 - Liberty Academy - 002227-
2nd Floor Lounge



3/22/2024 - 1115-18 - Liberty Academy - 001903-
200s Hallway-Left



3/22/2024 - 1115-19 - Liberty Academy - 001903-
200s Hallway-Right



3/22/2024 - 1115-20 - Liberty Academy - 002226-
By 206-Staff Restroom



3/22/2024 - 1115-21 - Liberty Academy - 001902-
Room 206



3/22/2024 - 1115-22 - Liberty Academy - 001901-
Room 202



3/22/2024 - 1115-23 - Liberty Academy - 001908-
Room 109



3/22/2024 - 1115-24 - Liberty Academy - 001909-
Room 109-Restroom



3/22/2024 - 1115-25 - Liberty Academy - 001910-
Room 109



3/22/2024 - 1115-26 - Liberty Academy - 001911-
Room 110



3/22/2024 - 1115-27 - Liberty Academy - 001912-
Room 110-Restroom



3/22/2024 - 1115-28 - Liberty Academy - 002225-
Room 110

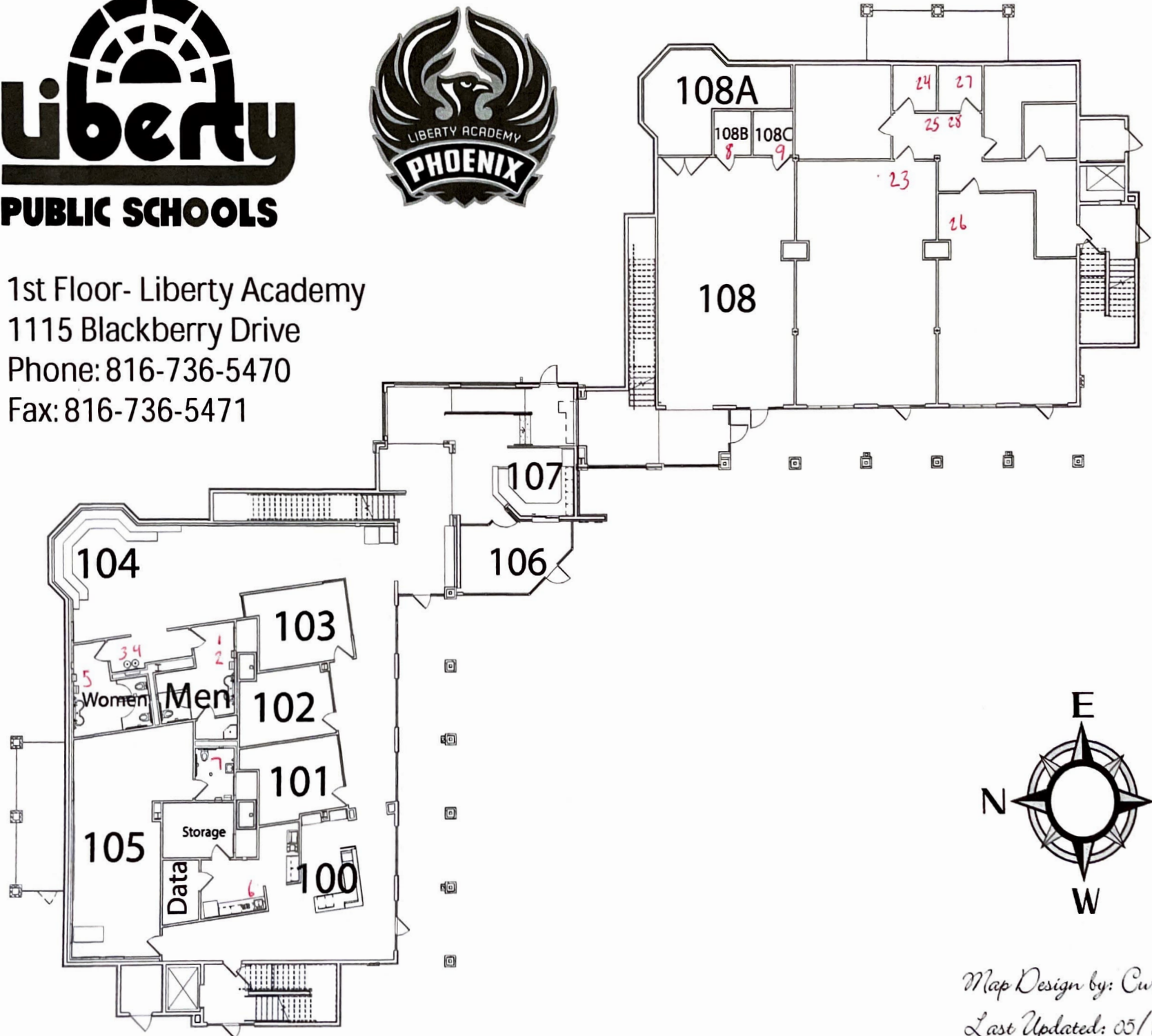
Appendix E

Source Identification Diagram

ASP was provided sample locations by
Liberty School District



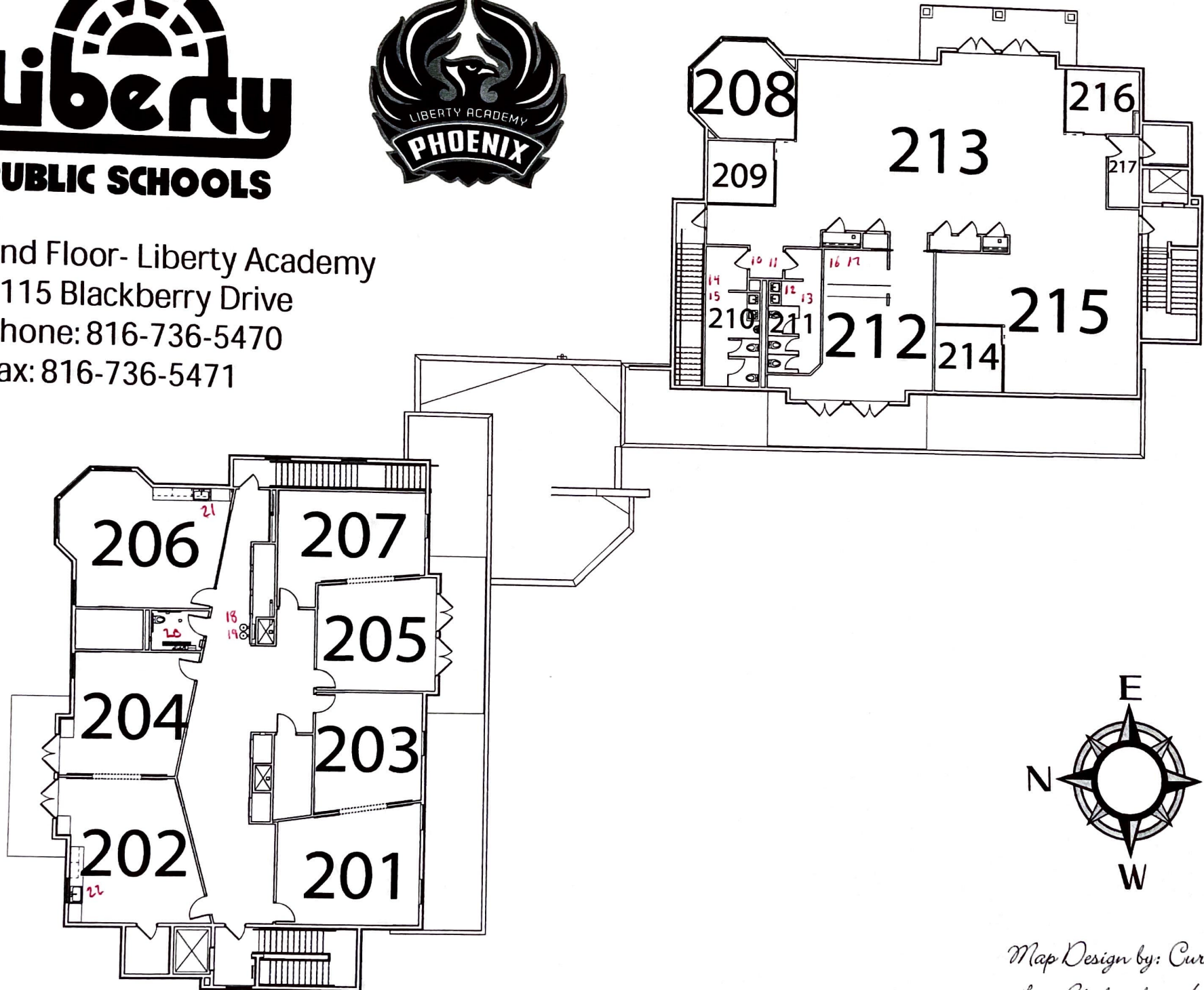
1st Floor- Liberty Academy
1115 Blackberry Drive
Phone: 816-736-5470
Fax: 816-736-5471



Map Design by: Curt Laven
Last Updated: 05/19/2023



2nd Floor- Liberty Academy
1115 Blackberry Drive
Phone: 816-736-5470
Fax: 816-736-5471



Map Design by: Curt Laven
Last Updated: 05/19/2023