

**LIMITED LEAD AND COPPER IN DRINKING WATER  
SAMPLING**

**G. P. Babb Middle School  
CCPS No. 3050  
5500 Reynolds Road  
Forest Park, GA 30297**

**GLE Project No.: 18000-18861**

**Prepared for:**

**Clayton County Public Schools  
1058 Fifth Avenue  
Jonesboro, Georgia 30236**

**October 2018**

**Prepared by:**



**1100 Spring Street NW, Suite 820  
Atlanta, Georgia 30309  
404-373-3844 • Fax 404-373-3927**

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## **1.0 INTRODUCTION**

GLE was contracted by Clayton County Public Schools (CCPS), through RFP No. 017-17, to perform water collection and testing services for lead and copper at G. P. Babb Middle School. The purpose of the contracted project was to collect and test water samples taken from CCPS drinking, cooking, and nursing water outlets to identify the presence of lead and copper in the water of CCPS schools and administrative/support buildings. Outlets not used for drinking, such as restroom faucets, maintenance areas, and science labs were excluded from this scope of work. The testing was generally performed in accordance with the Environmental Protection Agency (EPA)'s 3Ts for Reducing Lead in Drinking Water in Schools Technical Guidance Document (revised October 2006).

On October 4, 2018, Ms. Katrina Riley and Ms. Isis Hamilton of GLE Associates, Inc. (GLE), performed initial lead and copper in drinking water sampling of Client-designated drinking water fountains and outlets used for drinking, cooking, and/or nursing located within G. P. Babb Middle School located at 5500 Reynolds Road in Jonesboro, Georgia. According to the Client's representative, G. P. Babb Middle School was originally constructed in 1966, with major renovations or additions in 1967, 1986, 1987, 2000 and 2013. It is our understanding that no previous water testing has been conducted at G. P. Babb Middle School.

## **2.0 INVENTORY AND SAMPLING PLANS**

Prior to the initial sampling event, on February 27, 2018, GLE mobilized to the site to inventory the existing outlets at the facility to devise a sampling plan. Further, GLE submitted a Plumbing Profile to CCPS to complete prior to sampling. Based on the results of GLE's inventory and CCPS's plumbing profile, a sampling plan was created and provided to CCPS. A copy of the Sampling Plan with the sample number identifying sample areas is included in **Appendix C**.

## **3.0 LEAD AND COPPER IN DRINKING WATER SAMPLING PROCEDURES**

Prior to the sampling events, a Client-designated representative flushed the drinking, cooking, and nursing water outlets the night before each sampling event (or between at least 8 to 18 hours prior to the sampling event). Refrigerated drinking water fountains were flushed for 15 minutes. Non-refrigerated fountains and faucets used for drinking and cleaning were run for 30 seconds to one minute or until cold. The remaining Client-designated faucets were flushed for 10 minutes. The flushing was performed from the faucet located furthest away from the service line on each wing and/or floor of the building. Once the flushing was complete, CCPS personnel logged the completion date and time on the outlet flushed. GLE confirmed the 8 to 18 hour window prior to taking samples from flushed outlets and submitting them to the laboratory for analysis.

GLE assumed that the water supply lines and outlets in the assessed building were operating properly at the time of sampling. One representative water sample for lead and copper analysis was collected from each outlet identified in the sampling plan utilizing sterile, 250 milliliter (mL) sampling bottles preserved with nitric acid (HNO<sub>3</sub>). The sample was collected immediately after activating the water fountain or outlet, described in this report as “first draw”.

The collected samples were submitted to Waypoint Analytical, Inc., a qualified laboratory in Memphis, Tennessee, for analysis. The samples were analyzed for lead and copper in water by Inductively Coupled Plasma/Mass Spectroscopy (ICP/MS) in general accordance with EPA Method 200.8. A summary of the sampling locations and the associated analytical results are summarized below and in the attached table. The laboratory reports and chain of custodies are located in **Appendix A**. A copy of the laboratory’s certification is included in **Appendix B**.

#### **4.0 LEAD AND COPPER IN DRINKING WATER SAMPLING FINDINGS**

A total of 37 water samples were collected for analysis of lead and copper content, comprised of one, water sample (first draw) from each Client-designated water fountain or outlet at the above-referenced school. The sample ID consisted of “W” for water, sample number, followed by A for first draw. An ice machine identified within the concession stand near the gym was not flushed/inoperable during the initial sampling event. A summary of the analytical results for the lead and copper in drinking water sampling follows in **Table 4.1 – Summary of Lead and Copper in Drinking Water Sampling Results**. The reporting limit for the lead sample analysis was 0.500 micrograms per liter (µg/L) or parts per billion (ppb) and for copper sample analysis was 0.500 micrograms per liter (µg/L) or parts per billion (ppb).

According to the EPA’s 3Ts for Reducing Lead in Drinking Water in Schools Technical Guidance Document (revised October 2006), EPA recommends that water fountains and/or outlets be taken out of service if the lead level exceeds **20 µg/L or ppb** and if the copper level exceeds **1,300 µg/L or ppb**. Public water supply (PWS) systems are subject to an action level (AL) of **15 µg/L or ppb** of lead in water for treatment (specifically, if more than 10% of samples at residences tested exceed 15 ppb, system-wide corrosion control treatment may be necessary). For the purposes of this sampling event CCPS is taking corrective action for samples reported at or greater than **15 µg/L or ppb for lead and 1,300 µg/L or ppb for copper**.

**TABLE 4.1**  
**SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS**  
**G. P. BABB MIDDLE SCHOOL**  
**JONESBORO, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W1A	GYM DRINKING WATER FOUNTAIN (RIGHT)	BRL	30.5
W2A	GYM DRINKING WATER FOUNTAIN (LEFT)	BRL	33.3
W3A	CONCESSION STAND DRINKING WATER	3.67	27.4
W4A	GYM NEAR GIRLS ATHLETICS DRINKING WATER FOUNTAIN (RIGHT)	BRL	38.9
W5A	GYM NEAR GIRLS ATHLETICS DRINKING WATER (LEFT)	BRL	45.6
W6A	GYM NEAR BOYS ATHLETICS DRINKING WATER (RIGHT)	BRL	34.8
W7A	GYM NEAR BOYS ATHLETICS DRINKING WATER (LEFT)	BRL	48.2
W8A	GYM NEAR BAND ROOM (RIGHT)	1.55	299
W9A	GYM NEAR BAND ROOM (LEFT)	2.03	361
W10A	HALLWAY NEAR ROOM 204 DRINKING WATER FOUNTAIN (RIGHT)	BRL	76.1
W11A	HALLWAY NEAR ROOM 204 DRINKING WATER FOUNTAIN (LEFT)	BRL	90.1
W12A	HALLWAY NEAR ROOM 211 DRINKING WATER FOUNTAIN (RIGHT)	BRL	134
W13A	HALLWAY NEAR ROOM 211 DRINKING WATER FOUNTAIN (LEFT)	BRL	141

**TABLE 4.1**  
**SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS**  
**G. P. BABB MIDDLE SCHOOL**  
**JONESBORO, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W14A	HALLWAY NEAR ELECTRICAL ROOM DRINKING WATER FOUNTAIN (RIGHT)	BRL	56.7
W15A	HALLWAY NEAR ELECTRICAL ROOM DRINKING WATER FOUNTAIN (LEFT)	BRL	94.0
W16A	HALLWAY NEAR ROOM 415 DRINKING WATER FOUNTAIN (RIGHT)	0.554	105
W17A	HALLWAY NEAR ROOM 415 DRINKING WATER FOUNTAIN (LEFT)	BRL	95.3
W18A	CLASSROOM 410 EAST WALL DRINKING WATER (RIGHT)	1.13	80.0
W19A	CLASSROOM 410 EAST WALL DRINKING WATER (LEFT)	1.74	90.7
W20A	CLASSROOM 410 WEST WALL DRINKING WATER (LEFT)	0.701	78.6
W21A	CLASSROOM 410 WEST WALL DRINKING WATER (LEFT)	1.12	152
W22A	MEDIA CENTER DRINKING WATER	BRL	76.5
W23A	DANCE STUDIO NEAR MECHNICAL ROOM 570.1 DRINKING WATER FOUNTAIN	7.65	184
W24A	HALLWAY NEAR ROOM 604 DRINKING WATER FOUNTAIN (RIGHT)	BRL	80.0
W25A	HALLWAY NEAR ROOM 604 DRINKING WATER FOUNTAIN (LEFT)	BRL	90.6
W26A	HALLWAY NEAR ROOM 612 DRINKING WATER FOUNTAIN (LEFT)	0.644	88.8
W27A	HALLWAY NEAR ROOM 612 DRINKING WATER FOUNTAIN (LEFT)	0.590	89.0

**TABLE 4.1**  
**SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS**  
**G. P. BABB MIDDLE SCHOOL**  
**JONESBORO, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W28A	7 <sup>TH</sup> GRADE HALLWAY NEAR GIRLS BATHROOM DRINKING WATER FOUNTAIN (RIGHT)	BRL	80.1
<b>W29A</b>	7 <sup>TH</sup> GRADE HALLWAY NEAR GIRLS BATHROOM DRINKING WATER FOUNTAIN (LEFT)	BRL	91.3
W30A	CLASSROOM 711 DRINKING WATER	BRL	141
W31A	CAFETERIA ICE	BRL	1.72
W32A	CAFETERIA DRINKING WATER FOUNTAIN	0.714	240
W33A	KITCHEN NEAR OFFICE DRINKING WATER	BRL	103
W34A	KITCHEN S1 DRINKING WATER (RIGHT)	0.646	71.4
W35A	KITCHEN STEAMER DRINKING WATER	0.588	165
W36A	KITCHEN S2 DRINKING WATER (MIDDLE)	0.520	70.4
W37A	KITCHEN S3 DRINKING WATER (LEFT)	BRL	57.9

BRL – Below Reporting Limits

µg/L – micrograms per liter

Results in **bold** indicate levels at or above the EPA PWS Action Level of 15 µg/L for Lead in Drinking Water

\*Properly flushed and resampled during the follow-up testing event.

## 5.0 CONCLUSIONS ANDS RECOMMENDATIONS

Based on the findings of the lead in drinking water sampling, GLE offers the following conclusions:

1. A total of 37 initial first draw water samples were collected for analysis of lead and copper content, comprised of one water sample from each Client-designated drinking water fountains and outlets used for drinking, cooking, and/or nursing outlets at G. P. Babb Middle School. During the initial assessment, 37 first draw water samples were submitted to the laboratory for analysis.
2. Fifteen (15) of the 37 initial first draw water samples analyzed for lead indicated detectable levels of lead. None of the 37 initial first draw water samples with detectable levels of lead were **greater** than the EPA PWS AL of 15µg/L. An ice machine identified within the concession stand near the gym was not flushed/ inoperable during the initial sampling event. If determined to be used for drinking, cooking, and/or nursing, these outlets will need to be sampled.
3. 37 of the 37 first draw initial water samples indicated detectable levels of copper. None of the 37 initial first draw water samples with detectable levels of copper was **greater** than 1300µg/L.

## 6.0 LIMITATIONS

The results of this assessment apply only to those specific Client-designated water outlets sampled. Per the EPA sampling guidelines, large variations in lead concentrations may be found among individual outlets in a facility because of difference in flow rates and/or building materials; therefore, this assessment is limited to the conditions encountered at the date and time of each sampling event.



**APPENDIX A**  
**Laboratory Analytical Results and**  
**Chains of Custody**

10/9/2018

GLE Associates  
Mr. Matthew Howe  
1100 Spring St, NW Suite 820  
Suite 820  
Atlanta, GA, 30309

Ref: Analytical Testing  
Lab Report Number: 18-278-0229  
Client Project Description: CCPS: Babb Middle School  
Forest Park, GA  
Project# 18000-18861

Dear Mr. Matthew Howe:  
Waypoint Analytical, LLC. received sample(s) on 10/5/2018 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Andrea R Brownfield  
Project manager

*Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.*

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	



### Sample Summary Table

**Report Number:** 18-278-0229  
**Client Project Description:** CCPS: Babb Middle School  
Forest Park, GA  
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
97372	W1-A	Aqueous	10/04/2018 03:17	10/05/2018
97373	W2-A	Aqueous	10/04/2018 03:17	10/05/2018
97374	W3-A	Aqueous	10/04/2018 03:18	10/05/2018
97375	W4-A	Aqueous	10/04/2018 03:21	10/05/2018
97376	W5-A	Aqueous	10/04/2018 03:23	10/05/2018
97377	W6-A	Aqueous	10/04/2018 03:24	10/05/2018
97378	W7-A	Aqueous	10/04/2018 03:25	10/05/2018
97379	W8-A	Aqueous	10/04/2018 03:26	10/05/2018
97380	W9-A	Aqueous	10/04/2018 03:26	10/05/2018
97381	W10-A	Aqueous	10/04/2018 03:31	10/05/2018
97382	W11-A	Aqueous	10/04/2018 03:32	10/05/2018
97383	W12-A	Aqueous	10/04/2018 03:36	10/05/2018
97384	W13-A	Aqueous	10/04/2018 03:37	10/05/2018
97385	W14-A	Aqueous	10/04/2018 03:42	10/05/2018
97386	W15-A	Aqueous	10/04/2018 03:43	10/05/2018
97387	W16-A	Aqueous	10/04/2018 03:45	10/05/2018
97388	W17-A	Aqueous	10/04/2018 03:45	10/05/2018
97389	W18-A	Aqueous	10/04/2018 03:48	10/05/2018
97390	W19-A	Aqueous	10/04/2018 03:49	10/05/2018
97391	W20-A	Aqueous	10/04/2018 03:50	10/05/2018
97392	W21-A	Aqueous	10/04/2018 03:51	10/05/2018
97393	W22-A	Aqueous	10/04/2018 03:56	10/05/2018
97394	W23-A	Aqueous	10/04/2018 03:59	10/05/2018
97395	W24-A	Aqueous	10/04/2018 04:01	10/05/2018
97396	W25-A	Aqueous	10/04/2018 04:02	10/05/2018
97397	W26-A	Aqueous	10/04/2018 04:03	10/05/2018



**Sample Summary Table**

**Report Number:** 18-278-0229  
**Client Project Description:** CCPS: Babb Middle School  
Forest Park, GA  
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
97398	W27-A	Aqueous	10/04/2018 04:04	10/05/2018
97399	W28-A	Aqueous	10/04/2018 04:06	10/05/2018
97400	W29-A	Aqueous	10/04/2018 04:07	10/05/2018
97401	W30-A	Aqueous	10/04/2018 04:09	10/05/2018
97402	W31-A	Aqueous	10/04/2018 04:15	10/05/2018
97403	W32-A	Aqueous	10/04/2018 04:15	10/05/2018
97404	W33-A	Aqueous	10/04/2018 04:19	10/05/2018
97405	W34-A	Aqueous	10/04/2018 04:20	10/05/2018
97406	W35-A	Aqueous	10/04/2018 04:21	10/05/2018
97407	W36-A	Aqueous	10/04/2018 04:22	10/05/2018
97408	W37-A	Aqueous	10/04/2018 04:23	10/05/2018

## Summary of Detected Analytes

**Project:** CCPS: Babb Middle School

**Report Number:** 18-278-0229

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W1-A</b>	<b>L 97372</b>					
EPA-200.8	Copper	30.5	µg/L	0.500	10/08/2018 18:20	
EPA-200.8	Copper	30.5	µg/L	0.500	10/08/2018 18:20	
<b>W2-A</b>	<b>L 97373</b>					
EPA-200.8	Copper	33.3	µg/L	0.500	10/08/2018 18:21	
EPA-200.8	Copper	33.3	µg/L	0.500	10/08/2018 18:21	
<b>W3-A</b>	<b>L 97374</b>					
EPA-200.8	Copper	27.4	µg/L	0.500	10/08/2018 18:26	
EPA-200.8	Lead	3.67	µg/L	0.500	10/08/2018 18:26	
EPA-200.8	Copper	27.4	µg/L	0.500	10/08/2018 18:26	
EPA-200.8	Lead	3.67	µg/L	0.500	10/08/2018 18:26	
<b>W4-A</b>	<b>L 97375</b>					
EPA-200.8	Copper	38.9	µg/L	0.500	10/08/2018 18:28	
EPA-200.8	Copper	38.9	µg/L	0.500	10/08/2018 18:28	
<b>W5-A</b>	<b>L 97376</b>					
EPA-200.8	Copper	45.6	µg/L	0.500	10/08/2018 18:29	
EPA-200.8	Copper	45.6	µg/L	0.500	10/08/2018 18:29	
<b>W6-A</b>	<b>L 97377</b>					
EPA-200.8	Copper	34.8	µg/L	0.500	10/08/2018 18:30	
EPA-200.8	Copper	34.8	µg/L	0.500	10/08/2018 18:30	
<b>W7-A</b>	<b>L 97378</b>					
EPA-200.8	Copper	48.2	µg/L	0.500	10/08/2018 18:32	
EPA-200.8	Copper	48.2	µg/L	0.500	10/08/2018 18:32	
<b>W8-A</b>	<b>L 97379</b>					
EPA-200.8	Copper	299	µg/L	0.500	10/08/2018 18:33	
EPA-200.8	Lead	1.55	µg/L	0.500	10/08/2018 18:33	
EPA-200.8	Copper	299	µg/L	0.500	10/08/2018 18:33	
EPA-200.8	Lead	1.55	µg/L	0.500	10/08/2018 18:33	
<b>W9-A</b>	<b>L 97380</b>					
EPA-200.8	Copper	361	µg/L	0.500	10/08/2018 18:36	
EPA-200.8	Lead	2.03	µg/L	0.500	10/08/2018 18:36	
EPA-200.8	Copper	361	µg/L	0.500	10/08/2018 18:36	
EPA-200.8	Lead	2.03	µg/L	0.500	10/08/2018 18:36	
<b>W10-A</b>	<b>L 97381</b>					
EPA-200.8	Copper	76.1	µg/L	0.500	10/08/2018 18:39	

## Summary of Detected Analytes

**Project:** CCPS: Babb Middle School

**Report Number:** 18-278-0229

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W10-A</b>	<b>L 97381</b>					
EPA-200.8	Copper	76.1	µg/L	0.500	10/08/2018 18:39	
<b>W11-A</b>	<b>L 97382</b>					
EPA-200.8	Copper	90.1	µg/L	0.500	10/08/2018 18:52	
EPA-200.8	Copper	90.1	µg/L	0.500	10/08/2018 18:52	
<b>W12-A</b>	<b>L 97383</b>					
EPA-200.8	Copper	134	µg/L	0.500	10/08/2018 18:54	
EPA-200.8	Copper	134	µg/L	0.500	10/08/2018 18:54	
<b>W13-A</b>	<b>L 97384</b>					
EPA-200.8	Copper	141	µg/L	0.500	10/08/2018 18:55	
EPA-200.8	Copper	141	µg/L	0.500	10/08/2018 18:55	
<b>W14-A</b>	<b>L 97385</b>					
EPA-200.8	Copper	56.7	µg/L	0.500	10/08/2018 18:56	
EPA-200.8	Copper	56.7	µg/L	0.500	10/08/2018 18:56	
<b>W15-A</b>	<b>L 97386</b>					
EPA-200.8	Copper	94.0	µg/L	0.500	10/08/2018 18:58	
EPA-200.8	Copper	94.0	µg/L	0.500	10/08/2018 18:58	
<b>W16-A</b>	<b>L 97387</b>					
EPA-200.8	Copper	105	µg/L	0.500	10/08/2018 18:59	
EPA-200.8	Lead	0.554	µg/L	0.500	10/08/2018 18:59	
EPA-200.8	Copper	105	µg/L	0.500	10/08/2018 18:59	
EPA-200.8	Lead	0.554	µg/L	0.500	10/08/2018 18:59	
<b>W17-A</b>	<b>L 97388</b>					
EPA-200.8	Copper	95.3	µg/L	0.500	10/08/2018 19:04	
EPA-200.8	Copper	95.3	µg/L	0.500	10/08/2018 19:04	
<b>W18-A</b>	<b>L 97389</b>					
EPA-200.8	Copper	80.0	µg/L	0.500	10/08/2018 19:06	
EPA-200.8	Lead	1.13	µg/L	0.500	10/08/2018 19:06	
EPA-200.8	Copper	80.0	µg/L	0.500	10/08/2018 19:06	
EPA-200.8	Lead	1.13	µg/L	0.500	10/08/2018 19:06	
<b>W19-A</b>	<b>L 97390</b>					
EPA-200.8	Copper	90.7	µg/L	0.500	10/08/2018 19:07	
EPA-200.8	Lead	1.74	µg/L	0.500	10/08/2018 19:07	
EPA-200.8	Copper	90.7	µg/L	0.500	10/08/2018 19:07	

## Summary of Detected Analytes

**Project:** CCPS: Babb Middle School

**Report Number:** 18-278-0229

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W19-A</b>	<b>L 97390</b>					
EPA-200.8	Lead	1.74	µg/L	0.500	10/08/2018 19:07	
<b>W20-A</b>	<b>L 97391</b>					
EPA-200.8	Copper	78.6	µg/L	0.500	10/08/2018 19:08	
EPA-200.8	Lead	0.701	µg/L	0.500	10/08/2018 19:08	
EPA-200.8	Copper	78.6	µg/L	0.500	10/08/2018 19:08	
EPA-200.8	Lead	0.701	µg/L	0.500	10/08/2018 19:08	
<b>W21-A</b>	<b>L 97392</b>					
EPA-200.8	Copper	152	µg/L	0.500	10/08/2018 19:10	
EPA-200.8	Lead	1.12	µg/L	0.500	10/08/2018 19:10	
EPA-200.8	Copper	152	µg/L	0.500	10/08/2018 19:10	
EPA-200.8	Lead	1.12	µg/L	0.500	10/08/2018 19:10	
<b>W22-A</b>	<b>L 97393</b>					
EPA-200.8	Copper	76.5	µg/L	0.500	10/08/2018 19:11	
EPA-200.8	Copper	76.5	µg/L	0.500	10/08/2018 19:11	
<b>W23-A</b>	<b>L 97394</b>					
EPA-200.8	Copper	184	µg/L	0.500	10/08/2018 19:13	
EPA-200.8	Lead	7.65	µg/L	0.500	10/08/2018 19:13	
EPA-200.8	Copper	184	µg/L	0.500	10/08/2018 19:13	
EPA-200.8	Lead	7.65	µg/L	0.500	10/08/2018 19:13	
<b>W24-A</b>	<b>L 97395</b>					
EPA-200.8	Copper	80.0	µg/L	0.500	10/08/2018 19:14	
EPA-200.8	Copper	80.0	µg/L	0.500	10/08/2018 19:14	
<b>W25-A</b>	<b>L 97396</b>					
EPA-200.8	Copper	90.6	µg/L	0.500	10/08/2018 19:15	
EPA-200.8	Copper	90.6	µg/L	0.500	10/08/2018 19:15	
<b>W26-A</b>	<b>L 97397</b>					
EPA-200.8	Copper	88.8	µg/L	0.500	10/08/2018 19:17	
EPA-200.8	Lead	0.644	µg/L	0.500	10/08/2018 19:17	
EPA-200.8	Copper	88.8	µg/L	0.500	10/08/2018 19:17	
EPA-200.8	Lead	0.644	µg/L	0.500	10/08/2018 19:17	
<b>W27-A</b>	<b>L 97398</b>					
EPA-200.8	Copper	89.0	µg/L	0.500	10/08/2018 19:22	
EPA-200.8	Lead	0.590	µg/L	0.500	10/08/2018 19:22	
EPA-200.8	Copper	89.0	µg/L	0.500	10/08/2018 19:22	

## Summary of Detected Analytes

**Project:** CCPS: Babb Middle School

**Report Number:** 18-278-0229

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W27-A</b>	<b>L 97398</b>					
EPA-200.8	Lead	0.590	µg/L	0.500	10/08/2018 19:22	
<b>W28-A</b>	<b>L 97399</b>					
EPA-200.8	Copper	80.1	µg/L	0.500	10/08/2018 19:23	
EPA-200.8	Copper	80.1	µg/L	0.500	10/08/2018 19:23	
<b>W29-A</b>	<b>L 97400</b>					
EPA-200.8	Copper	91.3	µg/L	0.500	10/08/2018 19:25	
EPA-200.8	Copper	91.3	µg/L	0.500	10/08/2018 19:25	
<b>W30-A</b>	<b>L 97401</b>					
EPA-200.8	Copper	141	µg/L	0.500	10/08/2018 19:26	
EPA-200.8	Copper	141	µg/L	0.500	10/08/2018 19:26	
<b>W31-A</b>	<b>L 97402</b>					
EPA-200.8	Copper	1.72	µg/L	0.500	10/08/2018 19:39	
EPA-200.8	Copper	1.72	µg/L	0.500	10/08/2018 19:39	
<b>W32-A</b>	<b>L 97403</b>					
EPA-200.8	Copper	240	µg/L	0.500	10/08/2018 19:41	
EPA-200.8	Lead	0.714	µg/L	0.500	10/08/2018 19:41	
EPA-200.8	Copper	240	µg/L	0.500	10/08/2018 19:41	
EPA-200.8	Lead	0.714	µg/L	0.500	10/08/2018 19:41	
<b>W33-A</b>	<b>L 97404</b>					
EPA-200.8	Copper	103	µg/L	0.500	10/08/2018 19:42	
EPA-200.8	Copper	103	µg/L	0.500	10/08/2018 19:42	
<b>W34-A</b>	<b>L 97405</b>					
EPA-200.8	Copper	71.4	µg/L	0.500	10/08/2018 19:43	
EPA-200.8	Lead	0.646	µg/L	0.500	10/08/2018 19:43	
EPA-200.8	Copper	71.4	µg/L	0.500	10/08/2018 19:43	
EPA-200.8	Lead	0.646	µg/L	0.500	10/08/2018 19:43	
<b>W35-A</b>	<b>L 97406</b>					
EPA-200.8	Copper	165	µg/L	0.500	10/08/2018 19:45	
EPA-200.8	Lead	0.588	µg/L	0.500	10/08/2018 19:45	
EPA-200.8	Copper	165	µg/L	0.500	10/08/2018 19:45	
EPA-200.8	Lead	0.588	µg/L	0.500	10/08/2018 19:45	
<b>W36-A</b>	<b>L 97407</b>					
EPA-200.8	Copper	70.4	µg/L	0.500	10/08/2018 19:46	
EPA-200.8	Lead	0.520	µg/L	0.500	10/08/2018 19:46	





## Summary of Detected Analytes

**Project:** CCPS: Babb Middle School

**Report Number:** 18-278-0229

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W36-A</b>	<b>L 97407</b>					
EPA-200.8	Copper	70.4	µg/L	0.500	10/08/2018 19:46	
EPA-200.8	Lead	0.520	µg/L	0.500	10/08/2018 19:46	
<b>W37-A</b>	<b>L 97408</b>					
EPA-200.8	Copper	57.9	µg/L	0.500	10/08/2018 19:48	
EPA-200.8	Copper	57.9	µg/L	0.500	10/08/2018 19:48	



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Client: GLE Associates  
Project: CCPS: Babb Middle School  
Lab Report Number: 18-278-0229  
Date: 10/9/2018

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**CASE NARRATIVE**

**Metals Analyses Method EPA-200.8**

Sample 97401 (W30-A)

Analyte: Copper

QC Batch No: L403013/L402660

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97372**

Sample ID : **W1-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>30.5</b>	µg/L	0.500	1	10/08/18 18:20	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:20	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97373**

Sample ID : **W2-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>33.3</b>	µg/L	0.500	1	10/08/18 18:21	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:21	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97374**

Sample ID : **W3-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>27.4</b>	µg/L	0.500	1	10/08/18 18:26	CCR	EPA-200.8
Lead	<b>3.67</b>	µg/L	0.500	1	10/08/18 18:26	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

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Andrea R. Brownfield  
Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97375**

Sample ID: **W4-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:21**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>38.9</b>	µg/L	0.500	1	10/08/18 18:28	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:28	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97376**

Sample ID : **W5-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>45.6</b>	µg/L	0.500	1	10/08/18 18:29	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:29	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97377**

Sample ID : **W6-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:24**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>34.8</b>	µg/L	0.500	1	10/08/18 18:30	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:30	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97378**

Sample ID: **W7-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>48.2</b>	µg/L	0.500	1	10/08/18 18:32	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:32	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97379**

Sample ID: **W8-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>299</b>	µg/L	0.500	1	10/08/18 18:33	CCR	EPA-200.8
Lead	<b>1.55</b>	µg/L	0.500	1	10/08/18 18:33	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97380**

Sample ID : **W9-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>361</b>	µg/L	0.500	1	10/08/18 18:36	CCR	EPA-200.8
Lead	<b>2.03</b>	µg/L	0.500	1	10/08/18 18:36	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

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Andrea R. Brownfield  
Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97381**

Sample ID: **W10-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>76.1</b>	µg/L	0.500	1	10/08/18 18:39	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:39	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

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GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97382**

Sample ID: **W11-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>90.1</b>	µg/L	0.500	1	10/08/18 18:52	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:52	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Project manager

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## REPORT OF ANALYSIS

Lab No : **97383**

Sample ID : **W12-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>134</b>	µg/L	0.500	1	10/08/18 18:54	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:54	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97384**

Sample ID: **W13-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>141</b>	µg/L	0.500	1	10/08/18 18:55	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:55	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

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GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97385**

Sample ID : **W14-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>56.7</b>	µg/L	0.500	1	10/08/18 18:56	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:56	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

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1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97386**

Sample ID : **W15-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:43**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>94.0</b>	µg/L	0.500	1	10/08/18 18:58	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 18:58	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97387**

Sample ID : **W16-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>105</b>	µg/L	0.500	1	10/08/18 18:59	CCR	EPA-200.8
Lead	<b>0.554</b>	µg/L	0.500	1	10/08/18 18:59	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97388**

Sample ID : **W17-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>95.3</b>	µg/L	0.500	1	10/08/18 19:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:04	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97389**

Sample ID: **W18-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:48**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>80.0</b>	µg/L	0.500	1	10/08/18 19:06	CCR	EPA-200.8
Lead	<b>1.13</b>	µg/L	0.500	1	10/08/18 19:06	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97390**

Sample ID : **W19-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>90.7</b>	µg/L	0.500	1	10/08/18 19:07	CCR	EPA-200.8
Lead	<b>1.74</b>	µg/L	0.500	1	10/08/18 19:07	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97391**

Sample ID : **W20-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>78.6</b>	µg/L	0.500	1	10/08/18 19:08	CCR	EPA-200.8
Lead	<b>0.701</b>	µg/L	0.500	1	10/08/18 19:08	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97392**

Sample ID : **W21-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>152</b>	µg/L	0.500	1	10/08/18 19:10	CCR	EPA-200.8
Lead	<b>1.12</b>	µg/L	0.500	1	10/08/18 19:10	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97393**

Sample ID : **W22-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:56**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>76.5</b>	µg/L	0.500	1	10/08/18 19:11	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:11	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97394**

Sample ID : **W23-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 3:59**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>184</b>	µg/L	0.500	1	10/08/18 19:13	CCR	EPA-200.8
Lead	<b>7.65</b>	µg/L	0.500	1	10/08/18 19:13	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97395**

Sample ID : **W24-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:01**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>80.0</b>	µg/L	0.500	1	10/08/18 19:14	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:14	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97396**

Sample ID : **W25-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>90.6</b>	µg/L	0.500	1	10/08/18 19:15	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:15	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97397**

Sample ID : **W26-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>88.8</b>	µg/L	0.500	1	10/08/18 19:17	CCR	EPA-200.8
Lead	<b>0.644</b>	µg/L	0.500	1	10/08/18 19:17	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97398**

Sample ID : **W27-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>89.0</b>	µg/L	0.500	1	10/08/18 19:22	CCR	EPA-200.8
Lead	<b>0.590</b>	µg/L	0.500	1	10/08/18 19:22	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

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Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97399**

Sample ID : **W28-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>80.1</b>	µg/L	0.500	1	10/08/18 19:23	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:23	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project CCPS: Babb Middle School

Information : Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97400**

Sample ID : **W29-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>91.3</b>	µg/L	0.500	1	10/08/18 19:25	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:25	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

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Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97401**

Sample ID : **W30-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:09**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>141</b>	µg/L	0.500	1	10/08/18 19:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:26	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



23169

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Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Received: 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number: **18-278-0229**

## REPORT OF ANALYSIS

Lab No: **97402**

Sample ID: **W31-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>1.72</b>	µg/L	0.500	1	10/08/18 19:39	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:39	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97403**

Sample ID : **W32-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>240</b>	µg/L	0.500	1	10/08/18 19:41	CCR	EPA-200.8
Lead	<b>0.714</b>	µg/L	0.500	1	10/08/18 19:41	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97404**

Sample ID : **W33-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>103</b>	µg/L	0.500	1	10/08/18 19:42	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:42	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

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23169

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Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97405**

Matrix: **Aqueous**

Sample ID : **W34-A**

Sampled: **10/4/2018 4:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>71.4</b>	µg/L	0.500	1	10/08/18 19:43	CCR	EPA-200.8
Lead	<b>0.646</b>	µg/L	0.500	1	10/08/18 19:43	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

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Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97406**

Sample ID : **W35-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:21**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>165</b>	µg/L	0.500	1	10/08/18 19:45	CCR	EPA-200.8
Lead	<b>0.588</b>	µg/L	0.500	1	10/08/18 19:45	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97407**

Sample ID : **W36-A**

Matrix: **Aqueous**

Sampled: **10/4/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>70.4</b>	µg/L	0.500	1	10/08/18 19:46	CCR	EPA-200.8
Lead	<b>0.520</b>	µg/L	0.500	1	10/08/18 19:46	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Mr. Matthew Howe

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Babb Middle School

Information: Forest Park, GA

Project# 18000-18861

Report Date : 10/09/2018

Received : 10/5/2018



Andrea R. Brownfield  
Project manager

Report Number : **18-278-0229**

## REPORT OF ANALYSIS

Lab No : **97408**

Matrix: **Aqueous**

Sample ID : **W37-A**

Sampled: **10/4/2018 4:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>57.9</b>	µg/L	0.500	1	10/08/18 19:48	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/08/18 19:48	CCR	EPA-200.8

### Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

## Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Babb Middle School  
**Report No:** 18-278-0229

**QC Prep:** L402659 **QC Analytical Batch(es):** L403013  
**QC Prep Batch Method:** EPA-200.8 **Analysis Method:** EPA-200.8  
**Analysis Description:** Metals Analyses

**Lab Reagent Blank** LRB-L402659 Matrix: AQU  
Associated Lab Samples: 97372, 97373, 97374, 97375, 97376, 97377, 97378, 97379, 97380, 97381

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/08/18 17:58
Lead	µg/L	< 0.500	0.500	10/08/18 17:58

**Laboratory Control Sample** LCS-L402659

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.2	97.9	85-115
Lead	µg/L	50.3	49.9	99.3	85-115

**Matrix Spike & Matrix Spike Duplicate** L 97381-MS-L402659 L 97381-MSD-L402659

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	76.1	50.3	50.3	121	119	89.3	85.3	70-130	1.6	20.0
Lead	µg/L	< 0.503	50.3	50.3	50.1	49.4	99.6	98.3	70-130	1.4	20.0



## Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Babb Middle School  
**Report No:** 18-278-0229

**QC Prep:** L402660 **QC Analytical Batch(es):** L403013  
**QC Prep Batch Method:** EPA-200.8 **Analysis Method:** EPA-200.8  
**Analysis Description:** Metals Analyses

**Lab Reagent Blank** LRB-L402660 Matrix: AQU  
Associated Lab Samples: 97382, 97383, 97384, 97385, 97386, 97387, 97388, 97389, 97390, 97391, 97392, 97393, 97394, 97395, 97396, 97397, 97398, 97399, 97400, 97401

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/08/18 18:50
Lead	µg/L	< 0.500	0.500	10/08/18 18:50

**Laboratory Control Sample** LCS-L402660

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	50.3	100	85-115
Lead	µg/L	50.3	50.2	99.8	85-115

**Matrix Spike & Matrix Spike Duplicate** L 97401-MS-L402660 L 97401-MSD-L402660

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	141	50.3	50.3	169	170	55.7*	57.7*	70-130	0.5	20.0
Lead	µg/L	< 0.503	50.3	50.3	49.9	51.0	99.3	101	70-130	2.1	20.0

## Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Babb Middle School  
**Report No:** 18-278-0229

**QC Prep:** L402696 **QC Analytical Batch(es):** L403014  
**QC Prep Batch Method:** EPA-200.8 **Analysis Method:** EPA-200.8  
**Analysis Description:** Metals Analyses

**Lab Reagent Blank** LRB-L402696 Matrix: AQU  
Associated Lab Samples: 97402, 97403, 97404, 97405, 97406, 97407, 97408

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/08/18 19:33
Lead	µg/L	< 0.500	0.500	10/08/18 19:33

**Laboratory Control Sample** LCS-L402696

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.9	99.3	85-115
Lead	µg/L	50.3	49.8	99.1	85-115

**Matrix Spike & Matrix Spike Duplicate** Q 93509-MS-L402696 Q 93509-MSD-L402696

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	4.30	50.3	50.3	51.4	51.9	93.7	94.7	70-130	0.9	20.0
Lead	µg/L	< 0.503	50.3	50.3	48.8	49.5	97.1	98.5	70-130	1.4	20.0

## Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-278-0229**

### Shipping Method

<input checked="" type="radio"/> Fed Ex	<input type="radio"/> US Postal	<input type="radio"/> Lab	<input type="radio"/> Other :	<div></div>
<input type="radio"/> UPS	<input type="radio"/> Client	<input type="radio"/> Courier	Thermometer ID:	<div>N/A</div>

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers received	<div>1</div>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Required
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)	<input type="checkbox"/> Low concentration EnCore samplers (48 hr)		
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)	<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature: 

Sovanchampa Yos

Date & Time: 

10/05/2018 10:28:06

<b>Client Name/Address</b> <b>GLE Associates</b> Project Description <b>Pb and Cu</b>		<b>Client Project Manager/Contact</b> <b>Katrina Riley</b> Project/Site Location (City/State) <b>Babb Middle School</b> Forest Park, GA Project Manager Phone # <b>404-373-3844</b>		<b>Billing Information</b> <b>820</b> <b>1100 Spring Street</b> <b>Atlanta, GA 30309</b> <input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) Date Results Needed		<b>Method of Shipment</b> <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> Courier <input type="checkbox"/> Cite		<b>18-278-0229</b> <b>23169</b> <b>10-08-2018</b> <b>10:25:44</b> <b>GLE Associates</b> <b>CCPS: Babb Middle School</b>	
<b>Project Number</b> <b>18000-18861</b>		<b>Project Manager Email</b> <b>Katrina.Riley@gleassociates.com</b> <b>hamilton@gleassociates.com</b>		<b>Purchase Order Number</b> Other		<b>Site/Facility ID #</b> <b>Babb Middle School</b>		<b>Comments/Notes</b> A Cool < 10C Na2S2O3 (Micro Only) B Cool <= 6C C H2SO4 pH<2 D None Required E NaOH pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2 I Cool <= 6C Na2S2O3	
<b>Waypoint ANALYTICAL</b> 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		<b>Number of Containers</b> Unless noted, all containers per Table II of 40 CFR Part 136.		<b>Matrix (Refer to Key)</b> (g)rab or (c)omposite		<b>Required Analysis / Preservative</b>		<b>Client Remarks/Comments</b>	
<b>Date</b> <b>10/04/18</b>		<b>Sample Identification</b> <b>W1-A</b>		<b>Sampled by (Name - Print)</b> <b>Katrina Riley - J. Hamilton</b>		<b>Date</b> <b>10/04/18 13:20</b>		<b>Date</b> <b>10/04/18 13:20</b>	
<b>Time</b> <b>0817</b>		<b>W2-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>Matt Kelly</b>		<b>Time</b> <b>0818</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0818</b>		<b>W3-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0823</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0821</b>		<b>W4-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0824</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0823</b>		<b>W5-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0824</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0824</b>		<b>W6-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0825</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0825</b>		<b>W7-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0826</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0826</b>		<b>W8-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0826</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0826</b>		<b>W9-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0831</b>		<b>Time</b> <b>10/04/18 15:00</b>	
<b>0831</b>		<b>W10-A</b>		<b>Relinquished by: (SIGNATURE)</b> <b>HUGO ANOZ</b>		<b>Time</b> <b>0831</b>		<b>Time</b> <b>10/04/18 15:00</b>	











**APPENDIX B**  
**Laboratory Certification**





# GEORGIA

DEPARTMENT OF NATURAL RESOURCES

## ENVIRONMENTAL PROTECTION DIVISION

**Richard E. Dunn, Director**

**Watershed Protection Branch**

2 Martin Luther King, Jr. Drive  
Suite 1152, East Tower  
Atlanta, Georgia 30334  
404-463-1511

Mr. Michael T. Kauffman, Laboratory Director  
Waypoint Analytical, Inc.  
2790 Whitten Road  
Memphis, TN 38133

**MAR 13 2018**

RE: Certification by Reciprocity  
Waypoint Analytical, Inc.  
Georgia ID #C 044

Dear Mr. Kauffman:

The Georgia Department of Natural Resources, Environmental Protection Division (EPD), is in receipt of your laboratory's request to fulfill your laboratory's request for Certification by Reciprocity for the analysis of **Lead and Copper** in Drinking Water by **EPA 200.8**. Therefore, in accordance with the Georgia Safe Drinking Water Act of 1977 (Sections 12-5-170 through 12-5-193, O.C.G.A.) and the Rules for Safe Drinking Water (Chapter 391-3-5), this certification replaces any previously issued certification and is valid until May 10, 2020. This certificate is contingent upon continued Certification by the State of Tennessee and is non-transferable. This certificate is also contingent upon continued acceptable semi-annual Proficiency Testing results.

Prior to the expiration of this certification, please contact your accrediting/certifying authority and request the following information be forwarded to Lynne Grubb at [lynne.grubb@dnr.ga.gov](mailto:lynne.grubb@dnr.ga.gov) or Sean Earley at [sean.earley@dnr.ga.gov](mailto:sean.earley@dnr.ga.gov).

1. Copies of the most current on-site and accepted corrective actions
2. Copies of the scope of accreditation listing analytes

If you have any questions, please feel free to contact Lynne Grubb at 404-657-3189 or Sean Earley at 404-651-9581.

Thank you.

Sean Earley  
Laboratory Certification Officer  
Drinking Water Compliance Unit

Lewis Hays  
Program Manager  
Watershed Compliance Program

WAYPOINT ANALYTICAL (GA LAB ID# C044)

2790 Whitten Road Memphis, TN 38133

Effective March 1, 2018 to May 10, 2020

ANALYTE	CERTIFIED BY	METHOD
INORGANIC CHEMICALS		
Copper	TN DEC	200.8
Lead	TN DEC	200.8



Dear Client:

Re: Georgia State Law (O.C.G.A. § 12-2-9) requires all commercial laboratories submitting data to the Environmental Protection Division for regulatory purposes be approved or accredited by an accrediting authority such as NELAP. Pursuant to this regulation this laboratory affirms the following certification in support of this regulation under Chapter 391-3-26-05:

Laboratory: Waypoint Analytical, Inc.  
2790 Whitten Road  
Memphis, TN 38133

Accreditor: NELAP Accrediting Authority  
Primary Accrediting State: Louisiana Department of Environmental Quality (LELAP)

Accreditation Number: 04015

Scope: CWA/RCRA

Effective: 07/01/2017

Expires: 06/30/2018

Certificate and scope available upon request.

If you have any questions or comments please feel free in contacting me at [rmedina@waypointanalytical.com](mailto:rmedina@waypointanalytical.com).

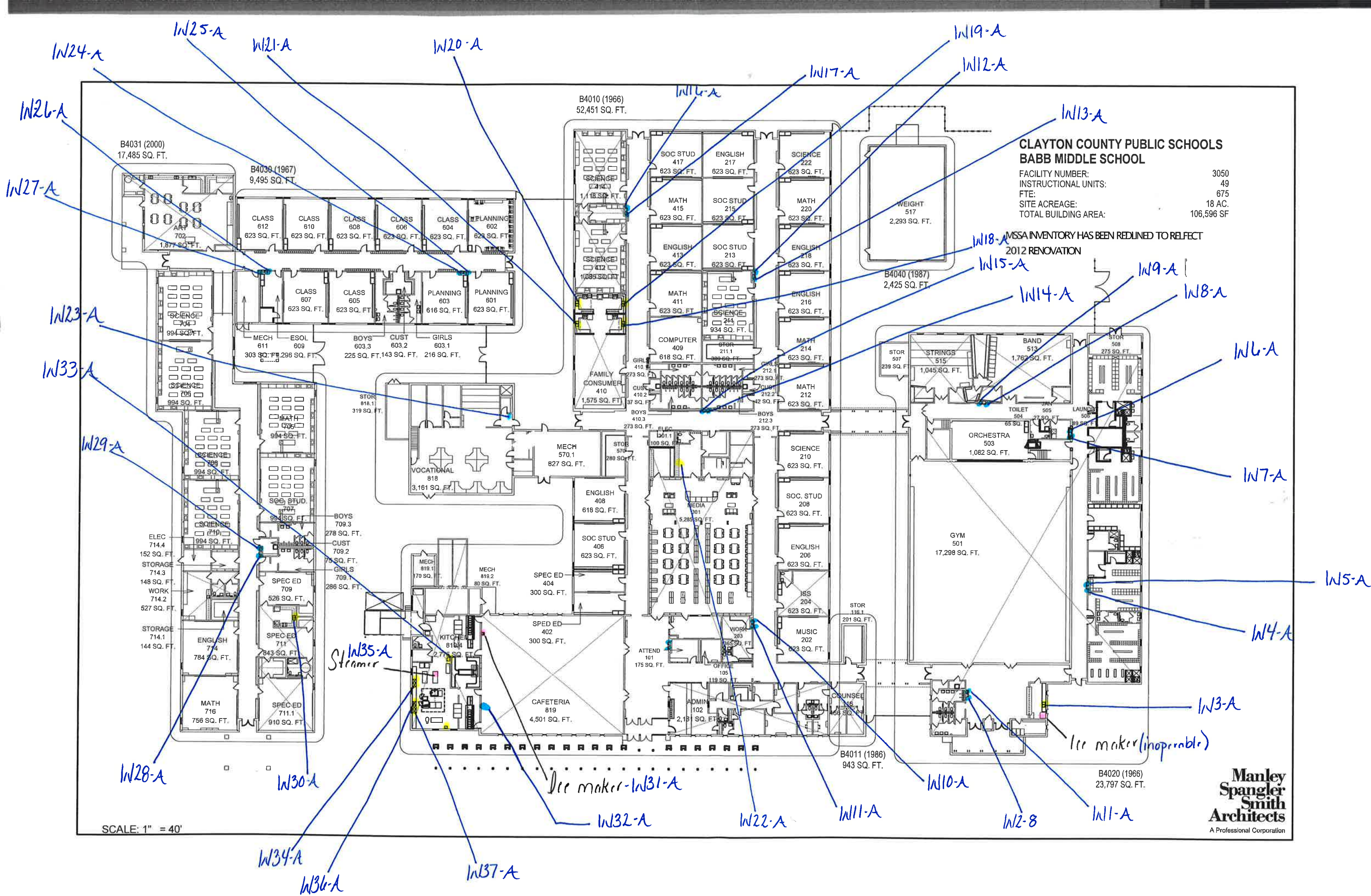
Respectfully,

Dr. Richard Medina  
Chief Quality Officer

## **APPENDIX C**

### **Sampling Plan**





**CLAYTON COUNTY PUBLIC SCHOOLS  
BABB MIDDLE SCHOOL**

FACILITY NUMBER: 3050  
INSTRUCTIONAL UNITS: 49  
FTE: 675  
SITE ACREAGE: 18 AC.  
TOTAL BUILDING AREA: 106,596 SF

MSSA INVENTORY HAS BEEN REDLINED TO REFLECT  
2012 RENOVATION

Ice maker (inoperable)

SCALE: 1" = 40'

**Manley  
Spangler  
Smith  
Architects**  
A Professional Corporation