

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

**Mount Zion Elementary School
CCPS No: 116
2984 Mount Zion Road
Jonesboro, Georgia, 30236**

GLE Project No.: 18000-18861

Prepared for:

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

April 2021

Prepared by:



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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 Mount Zion Elementary 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 May 23, 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 located within Mount Zion Elementary School located at 2984 Mount Zion Road, in Jonesboro, Georgia. On June 26, 2018, Ms. Katrina Riley returned to the site to conduct follow-up sampling of an outlet with an elevated analytical result for lead in Room 135. According to the Client's representative, Mount Zion Elementary School was originally constructed in 1976, with major renovations or additions in 1980, 1982, and 1987. It is our understanding that no previous water testing has been conducted at Mount Zion Elementary School.

2.0 INVENTORY AND SAMPLING PLANS

Prior to the initial sampling event, on February 20, 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 all 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.

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 (HNO₃). 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 (Waypoint), 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 report and chain of custody 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 71 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 or B for follow up first draw sampling subsequent to repair or replacement of parts associated with the outlet. 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 microgram 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
MOUNT ZION ELEMENTARY SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W1A	CLASSROOM- 142 DRINKING WATER	1.93	85.6
W2A	CLASSROOM- 142 FAUCET	4.66	79.7
W3A	5 TH GRADE HALL WATER FOUNTAIN- LEFT	BRL	16.9
W4A	5 TH GRADE HALL WATER FOUNTAIN- RIGHT	BRL	12.6
W5A	CLASSROOM- 138 DRINKING WATER	1.32	32.5
W6A	CLASSROOM -138 FAUCET	0.795	21.9
W7A	CLASSROOM -137 DRINKING WATER	1.14	23.4
W8A	CLASSROOM -137 FAUCET	0.621	9.86
W9A	GYM DRINKING WATER FAUCET	BRL	26.3
W10A	4 TH GRADE HALL WATER FOUNTAIN- RIGHT	BRL	12.4
W11A	4 TH GRADE HALL WATER FOUNTAIN- LEFT	BRL	36.9
W12A	ROOM 124.4 DRINKING WATER	BRL	35.7
W13A	CLASSROOM -119 DRINKING WATER	2.73	324
W14A	3 RD GRADE HALL WATER FOUNTAIN- RIGHT	BRL	16.4
W15A	3 RD GRADE HALL WATER FOUNTAIN- LEFT	BRL	20.1

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SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MOUNT ZION ELEMENTARY SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER		TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)		FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)	
W16A		CLASSROOM -134 FAUCET	0.868		30.6	
W17A		CLASSROOM -133 DRINKING WATER FOUNTAIN	6.44		152	
W18A		CLASSROOM -133 FAUCET	7.99		173	
W19A		CLASSROOM- 136 DRINKING WATER FOUNTAIN	4.47		45.2	
W20A		CLASSROOM- 136 FAUCET	1.28		34.4	
W21A	W21B	CLASSROOM- 135 DRINKING WATER FOUNTAIN	15.7	2.40	221	59.3
W22A		CLASSROOM- 135 FAUCET	0.990		53.5	
W23A		CLASSROOM -144 FAUCET	1.96		113	
W24A		3 RD GRADE HALL NEAR CLASSROOM 144 WATER FOUNTAIN	BRL		57.5	
W25A		CLASSROOM- 143 DRINKING WATER FOUNTAIN	1.91		74.3	
W26A		CLASSROOM- 143 FAUCET	BRL		57.1	
W27A		CLASSROOM- 109 DRINKING WATER	BRL		53.1	
W28A		CLASSROOM- 109 FAUCET	BRL		39.4	
W29A		CLASSROOM- 108 DRINKING WATER	0.558		78.7	
W30A		CLASSROOM- 108 FAUCET	0.514		42.7	

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MOUNT ZION ELEMENTARY SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W31A	CLASSRRROM- 107 DRINKING WATER	0.711	246
W32A	CLASSROOM- 107 FAUCET	1.89	267
W33A	CLASSROOM- 110 DRINKING WATER	1.36	54.9
W34A	CLASSROOM- 110 FAUCET	1.33	38.1
W35A	CLASSROOM- 106 DRINKING WATER	0.542	35.3
W36A	CLASSROOM- 106 FAUCET	1.03	31.5
W37A	5 TH GRADE HALL DRINKING WATER FOUNTAIN- RIGHT	BRL	26.1
W38A	5 TH GRADE HALL DRINKING WATER FOUNTAIN- LEFT	BRL	18.0
W39A	HALL NEAR ROOM 104.2 DRINKING WATER FOUNTAIN- RIGHT	BRL	15.1
W40A	HALL NEAR ROOM 104.2 DRINKING WATER FOUNTAIN- LEFT	BRL	25.4
W41A	ROOM 102.1 DRINKING WATER	BRL	41.3
W42A	ADJACENT MEDIA CENTER DRINKING WATER FOUNTAIN- RIGHT	BRL	18.0
W43A	ADJACENT MEDIA CENTER DRINKING WATER FOUNTAIN- LEFT	BRL	15.2
W44A	MEDIA CENTER DRINKING WATER	12.3	154

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MOUNT ZION ELEMENTARY SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W45A	CLASSROOM -132 DRINKING WATER	0.592	37.2
W46A	CLASSROOM -132 FAUCET	BRL	24.2
W47A	CLASSROOM -131 DRINKING WATER	1.90	81.4
W48A	CLASSROOM- 131 FAUCET	BRL	43.5
W49A	CLASSROOM- 129 DRINKING WATER	0.600	59.2
W50A	CLASSROOM- 129 FAUCET	BRL	56.4
W51A	CLASSROOM- 128 DRINKING WATER	1.78	62.8
W52A	CLASSROOM- 128 FAUCET	BRL	26.9
W53A	3 RD GRADE HALL DRINKING WATER FOUNTAIN- RIGHT	BRL	23.1
W54A	3 RD GRADE HALL DRINKING WATER FOUNTAIN- LEFT	BRL	18.0
W55A	HALL NEAR ADMINISTRATION OFFICE DRINKING WATER FOUNTAIN- RIGHT	BRL	41.4
W56A	HALL NEAR ADMINISTRATION OFFICE DRINKING WATER FOUNTAIN- LEFT	BRL	14.1
W57A	ADMINISTRATION OFFICE DRINKING WATER	2.62	88.9
W58A	CAFETERIA DRINKING WATER FOUNTAIN- RIGHT	0.942	31.4

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MOUNT ZION ELEMENTARY SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W59A	CAFETERIA DRINKING WATER FOUNTAIN- LEFT	BRL	21.9
W60A	KITCHEN (SEE APPENDIX C FOR LOCATION)	BRL	40.8
W61A	KITCHEN ICEMAKER	0.700	37.7
W62A	KITCHEN (SEE APPENDIX C FOR LOCATION)	0.776	53.2
W63A	KITCHEN POT FILLER	3.01	88.5
W64A	KITCHEN (SEE APPENDIX C FOR LOCATION)	1.28	51.8
W65A	KITCHEN (SEE APPENDIX C FOR LOCATION)	0.627	55.6
W66A	KITCHEN (SEE APPENDIX C FOR LOCATION)	1.60	54.2
W67A	KITCHEN (SEE APPENDIX C FOR LOCATION)	10.2	112
W68A	KITCHEN STEAMER	1.68	63.0
W69A	CLASSROOM 130 DRINKING WATER FOUNTAIN	BRL	76.5
W70A	CLASSROOM 130 DRINKING WATER	9.94	103

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

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 70 initial first draw water samples were collected for analysis of lead and copper content, comprised of one water sample from each Client-designated water drinking water fountains and outlets used for drinking, cooking, and/or nursing outlets at the Mount Zion Elementary School.
2. Forty-one (41) of the 70 first draw initial water samples indicated detectable levels of lead. One of the 70 first draw initial water samples with a detectable level of lead was **greater** than the EPA PWS AL of 15µg/L. This outlet, the drinking water fountain in Room 135, was removed from service for drinking water until follow-up sampling was conducted. Following the initial sampling event, the Client replaced the drinking water fountain within Room 135 prior to GLE resampling outlets. A subsequent first draw follow up water sample, collected from the identified water fountain in Room 135 on June 26, 2018, indicated a detectable level of lead, but was **less** than the EPA PWS AL of 15µg/L.
3. Seventy (70) of the 70 first draw initial water samples indicated detectable levels of copper. None of the 70 first draw initial water samples with detectable levels of copper was **greater** than 1,300µg/L. Further, the first draw follow-up water sample collected from the water fountain in Room 135 subsequent to replacement did not identify copper greater than 1,300µg/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

5/31/2018

GLE Associates
Ms. Katrina Riley
1100 Spring St, NW²Suite 820
Suite 820
Atlanta, GA, 30309

Ref: Analytical Testing
Lab Report Number: 18-144-0298
Client Project Description: CCPS: Mt. Zion ES
Jonesboro, GA
Project # 18000-18861

Dear Ms. Katrina Riley:

Waypoint Analytical, Inc. received sample(s) on 5/24/2018 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: 18-144-0298
Client Project Description: CCPS: Mt. Zion ES
Jonesboro, GA
Project # 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89849	W-1A	Aqueous	05/23/2018 03:32	05/24/2018
89850	W-2A	Aqueous	05/23/2018 03:33	05/24/2018
89851	W-3A	Aqueous	05/23/2018 03:34	05/24/2018
89852	W-4A	Aqueous	05/23/2018 03:36	05/24/2018
89853	W-5A	Aqueous	05/23/2018 03:37	05/24/2018
89854	W-6A	Aqueous	05/23/2018 03:38	05/24/2018
89855	W-7A	Aqueous	05/23/2018 03:40	05/24/2018
89856	W-8A	Aqueous	05/23/2018 03:41	05/24/2018
89857	W-9A	Aqueous	05/23/2018 03:44	05/24/2018
89858	W-10A	Aqueous	05/23/2018 03:50	05/24/2018
89859	W-11A	Aqueous	05/23/2018 03:51	05/24/2018
89860	W-12A	Aqueous	05/23/2018 03:53	05/24/2018
89861	W-13A	Aqueous	05/23/2018 03:57	05/24/2018
89862	W-14A	Aqueous	05/23/2018 03:58	05/24/2018
89863	W-15A	Aqueous	05/23/2018 03:59	05/24/2018
89864	W-16A	Aqueous	05/23/2018 04:02	05/24/2018
89865	W-17A	Aqueous	05/23/2018 04:03	05/24/2018
89866	W-18A	Aqueous	05/23/2018 04:04	05/24/2018
89867	W-19A	Aqueous	05/23/2018 04:05	05/24/2018
89868	W-20A	Aqueous	05/23/2018 04:06	05/24/2018
89869	W-21A	Aqueous	05/23/2018 04:07	05/24/2018
89870	W-22A	Aqueous	05/23/2018 04:07	05/24/2018
89871	W-23A	Aqueous	05/23/2018 04:10	05/24/2018
89872	W-24A	Aqueous	05/23/2018 04:11	05/24/2018
89873	W-25A	Aqueous	05/23/2018 04:13	05/24/2018
89874	W-26A	Aqueous	05/23/2018 04:14	05/24/2018

Sample Summary Table

Report Number: 18-144-0298
Client Project Description: CCPS: Mt. Zion ES
Jonesboro, GA
Project # 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89875	W-27A	Aqueous	05/23/2018 04:18	05/24/2018
89876	W-28A	Aqueous	05/23/2018 04:19	05/24/2018
89877	W-29A	Aqueous	05/23/2018 04:20	05/24/2018
89878	W-30A	Aqueous	05/23/2018 04:21	05/24/2018
89879	W-31A	Aqueous	05/23/2018 04:22	05/24/2018
89880	W-32A	Aqueous	05/23/2018 04:23	05/24/2018
89881	W-33A	Aqueous	05/23/2018 04:23	05/24/2018
89882	W-34A	Aqueous	05/23/2018 04:24	05/24/2018
89883	W-35A	Aqueous	05/23/2018 04:25	05/24/2018
89884	W-36A	Aqueous	05/23/2018 04:26	05/24/2018
89885	W-37A	Aqueous	05/23/2018 04:28	05/24/2018
89886	W-38A	Aqueous	05/23/2018 04:29	05/24/2018
89887	W-39A	Aqueous	05/23/2018 04:31	05/24/2018
89888	W-40A	Aqueous	05/23/2018 04:32	05/24/2018
89889	W-41A	Aqueous	05/23/2018 04:34	05/24/2018
89890	W-42A	Aqueous	05/23/2018 04:36	05/24/2018
89891	W-43A	Aqueous	05/23/2018 04:37	05/24/2018
89892	W-44A	Aqueous	05/23/2018 04:42	05/24/2018
89893	W-45A	Aqueous	05/23/2018 04:45	05/24/2018
89894	W-46A	Aqueous	05/23/2018 04:46	05/24/2018
89895	W-47A	Aqueous	05/23/2018 04:47	05/24/2018
89896	W-48A	Aqueous	05/23/2018 04:48	05/24/2018
89897	W-49A	Aqueous	05/23/2018 04:49	05/24/2018
89898	W-50A	Aqueous	05/23/2018 04:50	05/24/2018
89899	W-51A	Aqueous	05/23/2018 04:51	05/24/2018
89900	W-52A	Aqueous	05/23/2018 04:52	05/24/2018

Sample Summary Table

Report Number: 18-144-0298
Client Project Description: CCPS: Mt. Zion ES
Jonesboro, GA
Project # 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89901	W-53A	Aqueous	05/23/2018 04:53	05/24/2018
89902	W-54A	Aqueous	05/23/2018 04:54	05/24/2018
89903	W-55A	Aqueous	05/23/2018 04:55	05/24/2018
89904	W-56A	Aqueous	05/23/2018 04:56	05/24/2018
89905	W-57A	Aqueous	05/23/2018 04:58	05/24/2018
89906	W-58A	Aqueous	05/23/2018 05:02	05/24/2018
89907	W-59A	Aqueous	05/23/2018 05:03	05/24/2018
89908	W-60A	Aqueous	05/23/2018 05:04	05/24/2018
89909	W-61A	Aqueous	05/23/2018 05:05	05/24/2018
89910	W-62A	Aqueous	05/23/2018 05:06	05/24/2018
89911	W-63A	Aqueous	05/23/2018 05:08	05/24/2018
89912	W-64A	Aqueous	05/23/2018 05:08	05/24/2018
89913	W-65A	Aqueous	05/23/2018 05:10	05/24/2018
89914	W-66A	Aqueous	05/23/2018 05:11	05/24/2018
89915	W-67A	Aqueous	05/23/2018 05:12	05/24/2018
89916	W-68A	Aqueous	05/23/2018 05:13	05/24/2018

Summary of Detected Analytes

Project: CCPS: Mt. Zion ES

Report Number: 18-144-0298

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-1A	L 89849					
EPA-200.8	Copper	85.6	µg/L	0.500	05/29/2018 20:08	
EPA-200.8	Lead	1.93	µg/L	0.500	05/29/2018 20:08	
W-2A	L 89850					
EPA-200.8	Copper	79.7	µg/L	0.500	05/29/2018 20:11	
EPA-200.8	Lead	4.66	µg/L	0.500	05/29/2018 20:11	
W-3A	L 89851					
EPA-200.8	Copper	16.9	µg/L	0.500	05/30/2018 12:38	
W-4A	L 89852					
EPA-200.8	Copper	12.6	µg/L	0.500	05/30/2018 12:41	
W-5A	L 89853					
EPA-200.8	Copper	32.5	µg/L	0.500	05/29/2018 20:29	
EPA-200.8	Lead	1.32	µg/L	0.500	05/29/2018 20:29	
W-6A	L 89854					
EPA-200.8	Copper	21.9	µg/L	0.500	05/29/2018 20:33	
EPA-200.8	Lead	0.795	µg/L	0.500	05/29/2018 20:33	
W-7A	L 89855					
EPA-200.8	Copper	23.4	µg/L	0.500	05/29/2018 20:36	
EPA-200.8	Lead	1.14	µg/L	0.500	05/29/2018 20:36	
W-8A	L 89856					
EPA-200.8	Copper	9.86	µg/L	0.500	05/29/2018 20:40	
EPA-200.8	Lead	0.621	µg/L	0.500	05/29/2018 20:40	
W-9A	L 89857					
EPA-200.8	Copper	26.3	µg/L	0.500	05/29/2018 20:43	
W-10A	L 89858					
EPA-200.8	Copper	12.4	µg/L	0.500	05/29/2018 20:47	
W-11A	L 89859					
EPA-200.8	Copper	36.9	µg/L	0.500	05/29/2018 20:50	
W-12A	L 89860					
EPA-200.8	Copper	35.7	µg/L	0.500	05/29/2018 20:53	
W-13A	L 89861					
EPA-200.8	Copper	324	µg/L	0.500	05/29/2018 20:57	
EPA-200.8	Lead	2.73	µg/L	0.500	05/29/2018 20:57	

Summary of Detected Analytes

Project: CCPS: Mt. Zion ES

Report Number: 18-144-0298

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-14A	L 89862					
EPA-200.8	Copper	16.4	µg/L	0.500	05/29/2018 21:02	
W-15A	L 89863					
EPA-200.8	Copper	20.1	µg/L	0.500	05/29/2018 21:13	
W-16A	L 89864					
EPA-200.8	Copper	30.6	µg/L	0.500	05/29/2018 21:17	
EPA-200.8	Lead	0.868	µg/L	0.500	05/29/2018 21:17	
W-17A	L 89865					
EPA-200.8	Copper	152	µg/L	0.500	05/29/2018 21:20	
EPA-200.8	Lead	6.44	µg/L	0.500	05/29/2018 21:20	
W-18A	L 89866					
EPA-200.8	Copper	173	µg/L	0.500	05/29/2018 21:25	
EPA-200.8	Lead	7.99	µg/L	0.500	05/29/2018 21:25	
W-19A	L 89867					
EPA-200.8	Copper	45.2	µg/L	0.500	05/29/2018 21:30	
EPA-200.8	Lead	4.47	µg/L	0.500	05/29/2018 21:30	
W-20A	L 89868					
EPA-200.8	Copper	34.4	µg/L	0.500	05/29/2018 21:33	
EPA-200.8	Lead	1.28	µg/L	0.500	05/29/2018 21:33	
W-21A	L 89869					
EPA-200.8	Copper	221	µg/L	0.500	05/29/2018 22:05	
EPA-200.8	Lead	15.7	µg/L	0.500	05/29/2018 22:05	
W-22A	L 89870					
EPA-200.8	Copper	53.5	µg/L	0.500	05/29/2018 22:10	
EPA-200.8	Lead	0.990	µg/L	0.500	05/29/2018 22:10	
W-23A	L 89871					
EPA-200.8	Copper	113	µg/L	0.500	05/29/2018 22:14	
EPA-200.8	Lead	1.96	µg/L	0.500	05/29/2018 22:14	
W-24A	L 89872					
EPA-200.8	Copper	57.5	µg/L	0.500	05/29/2018 22:19	
W-25A	L 89873					
EPA-200.8	Copper	74.3	µg/L	0.500	05/29/2018 22:22	
EPA-200.8	Lead	1.91	µg/L	0.500	05/29/2018 22:22	

Summary of Detected Analytes

Project: CCPS: Mt. Zion ES

Report Number: 18-144-0298

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-26A	L 89874					
EPA-200.8	Copper	57.1	µg/L	0.500	05/29/2018 22:26	
W-27A	L 89875					
EPA-200.8	Copper	53.1	µg/L	0.500	05/29/2018 22:29	
W-28A	L 89876					
EPA-200.8	Copper	39.4	µg/L	0.500	05/29/2018 22:33	
W-29A	L 89877					
EPA-200.8	Copper	78.7	µg/L	0.500	05/29/2018 22:44	
EPA-200.8	Lead	0.558	µg/L	0.500	05/29/2018 22:44	
W-30A	L 89878					
EPA-200.8	Copper	42.7	µg/L	0.500	05/29/2018 22:47	
EPA-200.8	Lead	0.514	µg/L	0.500	05/29/2018 22:47	
W-31A	L 89879					
EPA-200.8	Copper	246	µg/L	0.500	05/29/2018 22:51	
EPA-200.8	Lead	0.711	µg/L	0.500	05/29/2018 22:51	
W-32A	L 89880					
EPA-200.8	Copper	267	µg/L	0.500	05/29/2018 22:56	
EPA-200.8	Lead	1.89	µg/L	0.500	05/29/2018 22:56	
W-33A	L 89881					
EPA-200.8	Copper	54.9	µg/L	0.500	05/29/2018 23:01	
EPA-200.8	Lead	1.36	µg/L	0.500	05/29/2018 23:01	
W-34A	L 89882					
EPA-200.8	Copper	38.1	µg/L	0.500	05/29/2018 23:04	
EPA-200.8	Lead	1.33	µg/L	0.500	05/29/2018 23:04	
W-35A	L 89883					
EPA-200.8	Copper	35.3	µg/L	0.500	05/29/2018 23:08	
EPA-200.8	Lead	0.542	µg/L	0.500	05/29/2018 23:08	
W-36A	L 89884					
EPA-200.8	Copper	31.5	µg/L	0.500	05/29/2018 23:11	
EPA-200.8	Lead	1.03	µg/L	0.500	05/29/2018 23:11	
W-37A	L 89885					
EPA-200.8	Copper	26.1	µg/L	0.500	05/29/2018 23:15	

Summary of Detected Analytes

Project: CCPS: Mt. Zion ES

Report Number: 18-144-0298

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-38A	L 89886					
EPA-200.8	Copper	18.0	µg/L	0.500	05/29/2018 23:18	
W-39A	L 89887					
EPA-200.8	Copper	15.1	µg/L	0.500	05/29/2018 23:29	
W-40A	L 89888					
EPA-200.8	Copper	25.4	µg/L	0.500	05/29/2018 23:33	
W-41A	L 89889					
EPA-200.8	Copper	41.3	µg/L	0.500	05/29/2018 23:57	
W-42A	L 89890					
EPA-200.8	Copper	18.0	µg/L	0.500	05/30/2018 00:00	
W-43A	L 89891					
EPA-200.8	Copper	15.2	µg/L	0.500	05/30/2018 00:12	
W-44A	L 89892					
EPA-200.8	Copper	154	µg/L	0.500	05/30/2018 00:15	
EPA-200.8	Lead	12.3	µg/L	0.500	05/30/2018 00:15	
W-45A	L 89893					
EPA-200.8	Copper	37.2	µg/L	0.500	05/30/2018 00:20	
EPA-200.8	Lead	0.592	µg/L	0.500	05/30/2018 00:20	
W-46A	L 89894					
EPA-200.8	Copper	24.2	µg/L	0.500	05/30/2018 00:24	
W-47A	L 89895					
EPA-200.8	Copper	81.4	µg/L	0.500	05/30/2018 00:27	
EPA-200.8	Lead	1.90	µg/L	0.500	05/30/2018 00:27	
W-48A	L 89896					
EPA-200.8	Copper	43.5	µg/L	0.500	05/30/2018 00:31	
W-49A	L 89897					
EPA-200.8	Copper	59.2	µg/L	0.500	05/30/2018 00:34	
EPA-200.8	Lead	0.600	µg/L	0.500	05/30/2018 00:34	
W-50A	L 89898					
EPA-200.8	Copper	56.4	µg/L	0.500	05/30/2018 00:37	
W-51A	L 89899					
EPA-200.8	Copper	62.8	µg/L	0.500	05/30/2018 00:41	
EPA-200.8	Lead	1.78	µg/L	0.500	05/30/2018 00:41	

Summary of Detected Analytes

Project: CCPS: Mt. Zion ES

Report Number: 18-144-0298

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-52A	L 89900					
EPA-200.8	Copper	26.9	µg/L	0.500	05/30/2018 00:44	
W-53A	L 89901					
EPA-200.8	Copper	23.1	µg/L	0.500	05/30/2018 00:56	
W-54A	L 89902					
EPA-200.8	Copper	18.0	µg/L	0.500	05/30/2018 00:59	
W-55A	L 89903					
EPA-200.8	Copper	41.4	µg/L	0.500	05/30/2018 01:03	
W-56A	L 89904					
EPA-200.8	Copper	14.1	µg/L	0.500	05/30/2018 01:06	
W-57A	L 89905					
EPA-200.8	Copper	88.9	µg/L	0.500	05/30/2018 01:10	
EPA-200.8	Lead	2.62	µg/L	0.500	05/30/2018 01:10	
W-58A	L 89906					
EPA-200.8	Copper	31.4	µg/L	0.500	05/30/2018 01:13	
EPA-200.8	Lead	0.942	µg/L	0.500	05/30/2018 01:13	
W-59A	L 89907					
EPA-200.8	Copper	21.9	µg/L	0.500	05/30/2018 01:16	
W-60A	L 89908					
EPA-200.8	Copper	40.8	µg/L	0.500	05/30/2018 01:52	
W-61A	L 89909					
EPA-200.8	Copper	37.7	µg/L	0.500	05/30/2018 01:56	
EPA-200.8	Lead	0.700	µg/L	0.500	05/30/2018 01:56	
W-62A	L 89910					
EPA-200.8	Copper	53.2	µg/L	0.500	05/30/2018 01:59	
EPA-200.8	Lead	0.776	µg/L	0.500	05/30/2018 01:59	
W-63A	L 89911					
EPA-200.8	Copper	88.5	µg/L	0.500	05/30/2018 02:02	
EPA-200.8	Lead	3.01	µg/L	0.500	05/30/2018 02:02	
W-64A	L 89912					
EPA-200.8	Copper	51.8	µg/L	0.500	05/30/2018 02:06	
EPA-200.8	Lead	1.28	µg/L	0.500	05/30/2018 02:06	

Summary of Detected Analytes

Project: CCPS: Mt. Zion ES

Report Number: 18-144-0298

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-65A	L 89913					
EPA-200.8	Copper	55.6	µg/L	0.500	05/30/2018 02:09	
EPA-200.8	Lead	0.627	µg/L	0.500	05/30/2018 02:09	
W-66A	L 89914					
EPA-200.8	Copper	84.2	µg/L	0.500	05/30/2018 02:21	
EPA-200.8	Lead	1.60	µg/L	0.500	05/30/2018 02:21	
W-67A	L 89915					
EPA-200.8	Copper	112	µg/L	0.500	05/30/2018 02:24	
EPA-200.8	Lead	10.2	µg/L	0.500	05/30/2018 02:24	
W-68A	L 89916					
EPA-200.8	Copper	63.0	µg/L	0.500	05/30/2018 02:29	
EPA-200.8	Lead	1.68	µg/L	0.500	05/30/2018 02:29	

23169

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89849**

Matrix: **Aqueous**

Sample ID : **W-1A**

Sampled: **5/23/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	85.6	µg/L	0.500	1	05/29/18 20:08	CCR	EPA-200.8
Lead	1.93	µg/L	0.500	1	05/29/18 20:08	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89850**

Matrix: **Aqueous**

Sample ID : **W-2A**

Sampled: **5/23/2018 3:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	79.7	µg/L	0.500	1	05/29/18 20:11	CCR	EPA-200.8
Lead	4.66	µg/L	0.500	1	05/29/18 20:11	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89851**

Matrix: **Aqueous**

Sample ID : **W-3A**

Sampled: **5/23/2018 3:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	16.9	µg/L	0.500	1	05/30/18 12:38	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 20:15	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89852**

Sample ID : **W-4A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	12.6	µg/L	0.500	1	05/30/18 12:41	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 20:18	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89853**

Matrix: **Aqueous**

Sample ID : **W-5A**

Sampled: **5/23/2018 3:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	32.5	µg/L	0.500	1	05/29/18 20:29	CCR	EPA-200.8
Lead	1.32	µg/L	0.500	1	05/29/18 20:29	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89854**

Sample ID : **W-6A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	21.9	µg/L	0.500	1	05/29/18 20:33	CCR	EPA-200.8
Lead	0.795	µg/L	0.500	1	05/29/18 20:33	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 18000-18861

Report Date : 05/31/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89855**

Sample ID : **W-7A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	23.4	µg/L	0.500	1	05/29/18 20:36	CCR	EPA-200.8
Lead	1.14	µg/L	0.500	1	05/29/18 20:36	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

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Report Date : 05/31/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89856**

Matrix: **Aqueous**

Sample ID : **W-8A**

Sampled: **5/23/2018 3:41**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	9.86	µg/L	0.500	1	05/29/18 20:40	CCR	EPA-200.8
Lead	0.621	µg/L	0.500	1	05/29/18 20:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89857**

Sample ID : **W-9A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	26.3	µg/L	0.500	1	05/29/18 20:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 20:43	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89858**

Sample ID : **W-10A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	12.4	µg/L	0.500	1	05/29/18 20:47	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 20:47	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89859**

Sample ID : **W-11A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	36.9	µg/L	0.500	1	05/29/18 20:50	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 20:50	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89860**

Sample ID : **W-12A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	35.7	µg/L	0.500	1	05/29/18 20:53	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 20:53	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89861**

Matrix: **Aqueous**

Sample ID : **W-13A**

Sampled: **5/23/2018 3:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	324	µg/L	0.500	1	05/29/18 20:57	CCR	EPA-200.8
Lead	2.73	µg/L	0.500	1	05/29/18 20:57	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89862**

Sample ID : **W-14A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	16.4	µg/L	0.500	1	05/29/18 21:02	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 21:02	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89863**

Sample ID : **W-15A**

Matrix: **Aqueous**

Sampled: **5/23/2018 3:59**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	20.1	µg/L	0.500	1	05/29/18 21:13	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 21:13	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89864**

Sample ID : **W-16A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	30.6	µg/L	0.500	1	05/29/18 21:17	CCR	EPA-200.8
Lead	0.868	µg/L	0.500	1	05/29/18 21:17	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project

CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89865**

Matrix: **Aqueous**

Sample ID : **W-17A**

Sampled: **5/23/2018 4:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	152	µg/L	0.500	1	05/29/18 21:20	CCR	EPA-200.8
Lead	6.44	µg/L	0.500	1	05/29/18 21:20	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89866**

Matrix: **Aqueous**

Sample ID : **W-18A**

Sampled: **5/23/2018 4:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	173	µg/L	0.500	1	05/29/18 21:25	CCR	EPA-200.8
Lead	7.99	µg/L	0.500	1	05/29/18 21:25	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89867**

Matrix: **Aqueous**

Sample ID : **W-19A**

Sampled: **5/23/2018 4:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	45.2	µg/L	0.500	1	05/29/18 21:30	CCR	EPA-200.8
Lead	4.47	µg/L	0.500	1	05/29/18 21:30	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Report Date : 05/31/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89868**

Matrix: **Aqueous**

Sample ID : **W-20A**

Sampled: **5/23/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	34.4	µg/L	0.500	1	05/29/18 21:33	CCR	EPA-200.8
Lead	1.28	µg/L	0.500	1	05/29/18 21:33	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89869**

Sample ID : **W-21A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	221	µg/L	0.500	1	05/29/18 22:05	CCR	EPA-200.8
Lead	15.7	µg/L	0.500	1	05/29/18 22:05	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89870**

Matrix: **Aqueous**

Sample ID : **W-22A**

Sampled: **5/23/2018 4:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	53.5	µg/L	0.500	1	05/29/18 22:10	CCR	EPA-200.8
Lead	0.990	µg/L	0.500	1	05/29/18 22:10	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 18000-18861

Report Date : 05/31/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89871**

Sample ID : **W-23A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	113	µg/L	0.500	1	05/29/18 22:14	CCR	EPA-200.8
Lead	1.96	µg/L	0.500	1	05/29/18 22:14	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Report Date : 05/31/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89872**

Matrix: **Aqueous**

Sample ID : **W-24A**

Sampled: **5/23/2018 4:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	57.5	µg/L	0.500	1	05/29/18 22:19	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 22:19	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Information : Jonesboro, GA

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Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89873**

Sample ID : **W-25A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:13**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	74.3	µg/L	0.500	1	05/29/18 22:22	CCR	EPA-200.8
Lead	1.91	µg/L	0.500	1	05/29/18 22:22	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89874**

Matrix: **Aqueous**

Sample ID : **W-26A**

Sampled: **5/23/2018 4:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	57.1	µg/L	0.500	1	05/29/18 22:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 22:26	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89875**

Matrix: **Aqueous**

Sample ID : **W-27A**

Sampled: **5/23/2018 4:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	53.1	µg/L	0.500	1	05/29/18 22:29	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 22:29	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89876**

Sample ID : **W-28A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	39.4	µg/L	0.500	1	05/29/18 22:33	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 22:33	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89877**

Sample ID : **W-29A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	78.7	µg/L	0.500	1	05/29/18 22:44	CCR	EPA-200.8
Lead	0.558	µg/L	0.500	1	05/29/18 22:44	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89878**

Sample ID : **W-30A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:21**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	42.7	µg/L	0.500	1	05/29/18 22:47	CCR	EPA-200.8
Lead	0.514	µg/L	0.500	1	05/29/18 22:47	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89879**

Sample ID : **W-31A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	246	µg/L	0.500	1	05/29/18 22:51	CCR	EPA-200.8
Lead	0.711	µg/L	0.500	1	05/29/18 22:51	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89880**

Matrix: **Aqueous**

Sample ID : **W-32A**

Sampled: **5/23/2018 4:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	267	µg/L	0.500	1	05/29/18 22:56	CCR	EPA-200.8
Lead	1.89	µg/L	0.500	1	05/29/18 22:56	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89881**

Sample ID : **W-33A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	54.9	µg/L	0.500	1	05/29/18 23:01	CCR	EPA-200.8
Lead	1.36	µg/L	0.500	1	05/29/18 23:01	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89882**

Matrix: **Aqueous**

Sample ID : **W-34A**

Sampled: **5/23/2018 4:24**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	38.1	µg/L	0.500	1	05/29/18 23:04	CCR	EPA-200.8
Lead	1.33	µg/L	0.500	1	05/29/18 23:04	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89883**

Sample ID : **W-35A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	35.3	µg/L	0.500	1	05/29/18 23:08	CCR	EPA-200.8
Lead	0.542	µg/L	0.500	1	05/29/18 23:08	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89884**

Sample ID : **W-36A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	31.5	µg/L	0.500	1	05/29/18 23:11	CCR	EPA-200.8
Lead	1.03	µg/L	0.500	1	05/29/18 23:11	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89885**

Matrix: **Aqueous**

Sample ID : **W-37A**

Sampled: **5/23/2018 4:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	26.1	µg/L	0.500	1	05/29/18 23:15	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 23:15	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89886**

Sample ID : **W-38A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:29**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	18.0	µg/L	0.500	1	05/29/18 23:18	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 23:18	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89887**

Sample ID : **W-39A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	15.1	µg/L	0.500	1	05/29/18 23:29	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 23:29	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89888**

Sample ID : **W-40A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	25.4	µg/L	0.500	1	05/29/18 23:33	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 23:33	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89889**

Matrix: **Aqueous**

Sample ID : **W-41A**

Sampled: **5/23/2018 4:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	41.3	µg/L	0.500	1	05/29/18 23:57	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/29/18 23:57	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89890**

Matrix: **Aqueous**

Sample ID : **W-42A**

Sampled: **5/23/2018 4:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	18.0	µg/L	0.500	1	05/30/18 00:00	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:00	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89891**

Sample ID : **W-43A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	15.2	µg/L	0.500	1	05/30/18 00:12	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:12	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Report Date : 05/31/2018

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89892**

Sample ID : **W-44A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	154	µg/L	0.500	1	05/30/18 00:15	CCR	EPA-200.8
Lead	12.3	µg/L	0.500	1	05/30/18 00:15	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89893**

Sample ID : **W-45A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	37.2	µg/L	0.500	1	05/30/18 00:20	CCR	EPA-200.8
Lead	0.592	µg/L	0.500	1	05/30/18 00:20	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89894**

Sample ID : **W-46A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:46**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	24.2	µg/L	0.500	1	05/30/18 00:24	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:24	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89895**

Matrix: **Aqueous**

Sample ID : **W-47A**

Sampled: **5/23/2018 4:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	81.4	µg/L	0.500	1	05/30/18 00:27	CCR	EPA-200.8
Lead	1.90	µg/L	0.500	1	05/30/18 00:27	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89896**

Sample ID : **W-48A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:48**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	43.5	µg/L	0.500	1	05/30/18 00:31	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:31	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89897**

Sample ID : **W-49A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	59.2	µg/L	0.500	1	05/30/18 00:34	CCR	EPA-200.8
Lead	0.600	µg/L	0.500	1	05/30/18 00:34	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89898**

Sample ID : **W-50A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	56.4	µg/L	0.500	1	05/30/18 00:37	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:37	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89899**

Sample ID : **W-51A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	62.8	µg/L	0.500	1	05/30/18 00:41	CCR	EPA-200.8
Lead	1.78	µg/L	0.500	1	05/30/18 00:41	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89900**

Sample ID : **W-52A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	26.9	µg/L	0.500	1	05/30/18 00:44	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:44	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89901**

Sample ID : **W-53A**

Matrix: **Aqueous**

Sampled: **5/23/2018 4:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	23.1	µg/L	0.500	1	05/30/18 00:56	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:56	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89902**

Matrix: **Aqueous**

Sample ID : **W-54A**

Sampled: **5/23/2018 4:54**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	18.0	µg/L	0.500	1	05/30/18 00:59	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 00:59	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89903**

Matrix: **Aqueous**

Sample ID : **W-55A**

Sampled: **5/23/2018 4:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	41.4	µg/L	0.500	1	05/30/18 01:03	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 01:03	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89904**

Matrix: **Aqueous**

Sample ID : **W-56A**

Sampled: **5/23/2018 4:56**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	14.1	µg/L	0.500	1	05/30/18 01:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 01:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89905**

Matrix: **Aqueous**

Sample ID : **W-57A**

Sampled: **5/23/2018 4:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	88.9	µg/L	0.500	1	05/30/18 01:10	CCR	EPA-200.8
Lead	2.62	µg/L	0.500	1	05/30/18 01:10	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

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Received : 5/24/2018



Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89906**

Matrix: **Aqueous**

Sample ID : **W-58A**

Sampled: **5/23/2018 5:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	31.4	µg/L	0.500	1	05/30/18 01:13	CCR	EPA-200.8
Lead	0.942	µg/L	0.500	1	05/30/18 01:13	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89907**

Sample ID : **W-59A**

Matrix: **Aqueous**

Sampled: **5/23/2018 5:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	21.9	µg/L	0.500	1	05/30/18 01:16	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 01:16	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89908**

Matrix: **Aqueous**

Sample ID : **W-60A**

Sampled: **5/23/2018 5:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	40.8	µg/L	0.500	1	05/30/18 01:52	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/30/18 01:52	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89909**

Matrix: **Aqueous**

Sample ID : **W-61A**

Sampled: **5/23/2018 5:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	37.7	µg/L	0.500	1	05/30/18 01:56	CCR	EPA-200.8
Lead	0.700	µg/L	0.500	1	05/30/18 01:56	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89910**

Sample ID : **W-62A**

Matrix: **Aqueous**

Sampled: **5/23/2018 5:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	53.2	µg/L	0.500	1	05/30/18 01:59	CCR	EPA-200.8
Lead	0.776	µg/L	0.500	1	05/30/18 01:59	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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CCPS: Mt. Zion ES

Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

Received : 5/24/2018



Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89911**

Matrix: **Aqueous**

Sample ID : **W-63A**

Sampled: **5/23/2018 5:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	88.5	µg/L	0.500	1	05/30/18 02:02	CCR	EPA-200.8
Lead	3.01	µg/L	0.500	1	05/30/18 02:02	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

Project # 18000-18861

Report Date : 05/31/2018

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89912**

Sample ID : **W-64A**

Matrix: **Aqueous**

Sampled: **5/23/2018 5:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	51.8	µg/L	0.500	1	05/30/18 02:06	CCR	EPA-200.8
Lead	1.28	µg/L	0.500	1	05/30/18 02:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Andrea R. Brownfield
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Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89913**

Matrix: **Aqueous**

Sample ID : **W-65A**

Sampled: **5/23/2018 5:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	55.6	µg/L	0.500	1	05/30/18 02:09	CCR	EPA-200.8
Lead	0.627	µg/L	0.500	1	05/30/18 02:09	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Jonesboro, GA

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Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89914**

Sample ID : **W-66A**

Matrix: **Aqueous**

Sampled: **5/23/2018 5:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	84.2	µg/L	0.500	1	05/30/18 02:21	CCR	EPA-200.8
Lead	1.60	µg/L	0.500	1	05/30/18 02:21	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89915**

Matrix: **Aqueous**

Sample ID : **W-67A**

Sampled: **5/23/2018 5:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	112	µg/L	0.500	1	05/30/18 02:24	CCR	EPA-200.8
Lead	10.2	µg/L	0.500	1	05/30/18 02:24	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 18000-18861

Report Date : 05/31/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-144-0298**

REPORT OF ANALYSIS

Lab No : **89916**

Matrix: **Aqueous**

Sample ID : **W-68A**

Sampled: **5/23/2018 5:13**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	63.0	µg/L	0.500	1	05/30/18 02:29	CCR	EPA-200.8
Lead	1.68	µg/L	0.500	1	05/30/18 02:29	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mt. Zion ES
Report No: 18-144-0298

QC Prep: L383217
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L383777
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank		LRB-L383217				Matrix: AQU									
Associated Lab Samples:		89849, 89850, 89851, 89852, 89853, 89854, 89855, 89856, 89857, 89858, 89859, 89860, 89861, 89862, 89863, 89864													
Parameter	Units	Blank Result	MQL		Analyzed										
Copper	µg/L	< 0.500	0.500		05/29/18 20:01										
Lead	µg/L	< 0.500	0.500		05/29/18 20:01										

Laboratory Control Sample		LCS-L383217			
Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	50.4	100	85-115
Lead	µg/L	50.3	51.2	102	85-115

Matrix Spike & Matrix Spike Duplicate		L 89868-MS-L383217	L 89868-MSD-L383217								
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	34.4	50.3	50.3	81.0	84.4	92.7	99.5	70-130	4.1	20.0
Lead	µg/L	1.28	50.3	50.3	52.1	50.1	101	97.1	70-130	3.9	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mt. Zion ES
Report No: 18-144-0298

QC Prep: L383218
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L383777
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L383218 Matrix: AQU
Associated Lab Samples: 89869, 89870, 89871, 89872, 89873, 89874, 89875, 89876, 89877, 89878, 89879, 89880, 89881, 89882, 89883, 89884

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/29/18 21:59
Lead	µg/L	< 0.500	0.500	05/29/18 21:59

Laboratory Control Sample LCS-L383218

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	50.1	99.6	85-115
Lead	µg/L	50.3	50.0	99.5	85-115

Matrix Spike & Matrix Spike Duplicate L 89888-MS-L383218 L 89888-MSD-L383218

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	25.4	50.3	50.3	74.0	76.3	96.7	101	70-130	3.0	20.0
Lead	µg/L	< 0.503	50.3	50.3	49.4	50.0	98.3	99.5	70-130	1.2	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mt. Zion ES
Report No: 18-144-0298

QC Prep: L383219
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L383777
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank		LRB-L383219				Matrix: AQU											
Associated Lab Samples:		89889,	89890,	89891,	89892,	89893,	89894,	89895,	89896,	89897,	89898,	89899,	89900,	89901,	89902,	89903,	89904
Parameter	Units	Blank Result		MQL		Analyzed											
Copper	µg/L	< 0.500		0.500		05/29/18 23:50											
Lead	µg/L	< 0.500		0.500		05/29/18 23:50											

Laboratory Control Sample		LCS-L383219			
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 89907-MS-L383219	L 89907-MSD-L383219								
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	21.9	50.3	50.3	69.7	66.6	95.1	88.9	70-130	4.5	20.0
Lead	µg/L	< 0.503	50.3	50.3	49.1	48.5	97.7	96.5	70-130	1.2	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mt. Zion ES
Report No: 18-144-0298

QC Prep: L383227 **QC Analytical Batch(es):** L383777
QC Prep Batch Method: EPA-200.8 **Analysis Method:** EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L383227 Matrix: AQU
Associated Lab Samples: 89908, 89909, 89910, 89911, 89912, 89913, 89914, 89915, 89916

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/30/18 01:42
Lead	µg/L	< 0.500	0.500	05/30/18 01:42

Laboratory Control Sample LCS-L383227

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	51.0	101	85-115
Lead	µg/L	50.3	51.5	102	85-115

Matrix Spike & Matrix Spike Duplicate L 89916-MS-L383227 L 89916-MSD-L383227

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	63.0	50.3	50.3	106	107	85.5	87.5	70-130	0.9	20.0
Lead	µg/L	1.68	50.3	50.3	51.6	51.3	99.3	98.7	70-130	0.5	20.0

Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-144-0298**

Shipping Method

☒ Fed Ex	☐ US Postal	☐ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	N/A

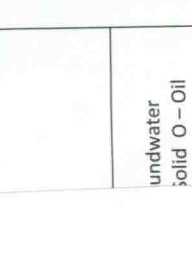
Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Required
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Required
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?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

Comments:

Signature:

Date & Time:

Client Name/Address GLE Associates 1100 Spring St. Suite 920 ATL, GA		Client Project Manager/Contact Karina Riley Project/Site Location (City/State) Mt. Zion ES		Billing Information 1100 Spring St. Suite 920 ATL, GA ☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	
Project Description Pb and Cu Project Number 18000 - 18961		Project Manager Email Karina Riley K.Riley@gleassociates.com		Purchase Order Number Other	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Project Manager Phone # 404-373-3844		Site/Facility ID # Mt. Zion ES	
Unless noted, all containers per Table II of 40 CFR Part 136.		Number of Containers 200.8 Pb 200.8 Cu		Required Analysis / Preservative (G)rab or (C)omposite	
Sample Identification Date Time 05/23/18 0332 W-1A 0333 W-2A 0334 W-3A 0336 W-4A 0338 W-5A 0338 W-6A 0340 W-7A 0341 W-8A 0344 W-9A 0350 W-10A		Matrix (Refer to Key) DW L7 HND3 HND3 		Comments/Notes DW RM 142 DW RM 142 Left F 5th grade HW Right F 5th grade HW DWF RM 138 DW RM 138 DWF RM 137 DW RM 137 F Gym F (Right) 4th grade HW	
For Laboratory Use Only Ice Custody Seals Blank/Cooler Temp N/A TP		Lab Comments Karina Riley Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE)		Client Remarks/Comments Date Time 5/23 11:00 Received by: (SIGNATURE) 5/23/18 15:00 Received by: (SIGNATURE) 5/24/18 Received by: (SIGNATURE)	



Client Name/Address GLE Associates		Client Project Manager/Contact Katrina Riley Project/Site Location (City/State) Mt. Zion ES		Billing Information 1100 Spring St. Suite 820 ATL, GA ☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed		For Laboratory Use Only Barcode 18-144-0298 23169 05-24-2018 14:47:50 GLE Associates CCPS: Mt. Zion ES Underwater Solid O - Oil	
Project Description Pb and Cu		Project Manager/Phone # Jonesboro, GA		Project Manager Email Krilyn.gilnes@gle.com		Site/Facility ID # Mt. Zion ES	
Project Number 18000-18861		Project Manager Phone # 404-373-3844		Purchase Order Number		Other	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 40 CFR Part 136.		Matrix (Refer to Key)		Required Analysis / Preservative	
Sample Identification		Number of Containers		(g) Lab or (C) Composite		Comments/Notes	
Date	Time						
0351	0351	W-11 A		DWF 1 HNO3 HNO3		F(Left) 4th grade HW	
0353	0353	W-12 A				DWF RM 120.4	
0357	0357	W-13 A				DWF RM 119	
0358	0358	W-14 A				DWF RM 119 3rd grade HW	
0359	0359	W-15 A				DWF RM 134	
0402	0402	W-16 A				DWF RM 133	
0403	0403	W-17 A				DWF RM 133	
0404	0404	W-18 A				DWF RM 136	
0405	0405	W-19 A				DWF RM 136	
0406	0406	W-20 A				DWF RM 136	
For Laboratory Use Only		Custody Seals Y(N)		Sampled by (Name - Print) Katrina Riley		Client Remarks/Comments	
Ice Y(N)		Blank/Cooler Temp N/A		Relinquished by: (SIGNATURE) Katrina Riley		Received by: (SIGNATURE) HUGO ANEZ	
				Relinquished by: (SIGNATURE) HUGO ANEZ		Received by: (SIGNATURE) FELIX	
				Relinquished by: (SIGNATURE)		Received by: (SIGNATURE) J. Phillips	
				Date 5/23/18 11:00		Date 5/23/18 11:00	
				Date 5/23/18 15:00		Date 5/23/18 15:00	
				Date 5/24/18		Date 5/24/18	
						08:00	

Client Name/Address		Client Project Manager/Contact		Billing Information	
GLE Associates Project Description Mt. Zion ES		Karina Riley Project/Site Location (City/State) Mt. Zion ES		1100 Spring Street 620 Atlanta, GA	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Jonesboro, GA Project Manager Phone # 404-373-3844		☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	
Project Number 19000-19861		Project Manager Email Krilam@glassassociates.com		Site/Facility ID # Mt. Zion ES	
Sample Identification Date Time 06/23/18 0407		Number of Containers Matrix (Refer to Key) (G)rab or (C)omposite		Purchase Order Number Required Analysis / Preservative Comments/Notes	
Unless noted, all containers per Table II of 40 CFR Part 136.		W-21 A W-22 A W-23 A W-24 A W-25 A W-26 A W-27 A W-28 A W-29 A W-30 A		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	
Date Time 06/23/18 0407		W-21 A W-22 A W-23 A W-24 A W-25 A W-26 A W-27 A W-28 A W-29 A W-30 A		DNF RM 135 DW RM 135 DNF RM 144 F 3rd grade HW near RM 144 DNF RM 143 DW RM 143 DNF RM 109 DW RM 109 DNF RM 108 DW RM 108	
For Laboratory Use Only		Sampled by (Name - Print) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE)		Client Remarks/Comments Date Time 5/23/18 11:00 Date Time 5/23/18 15:00 Date Time 5/24/18	
Lab Comments Ice Custody Seals Blank/Cooler Temp N/A		Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE)		Received by: (SIGNATURE) Received by: (SIGNATURE) Received by: (SIGNATURE)	
Date Time 5/23/18 11:00		Date Time 5/23/18 15:00		Date Time 5/24/18	

08:00

Client Name/Address		Client Project Manager/Contact		Billing Information		Project Manager/Email		Purchase Order Number		Site/Facility ID #	
GLE Associates		Katrina Riley		☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) ☐ Date Results Needed		GLE Associates CCPS: Mt. Zion ES		18-144-0298 23169 05-24-2018 14:47:50		undewater olid O - Oil	
Project Description		Project/Site Location (City/State)		Project Manager Phone #		Project Manager Email		Purchase Order Number		Site/Facility ID #	
PB and Cu		Mt. Zion ES		464-373-3844		Katrina Riley				Mt. Zion ES	
Project Number		Project Manager Phone #		Project Manager Email		Project Manager Email		Purchase Order Number		Site/Facility ID #	
18000-18861		464-373-3844		Katrina Riley		Katrina Riley				Mt. Zion ES	
Waypoint ANALYTICAL		Sample Identification		Number of Containers		Matrix (Refer to Key)		(G)rab or (C)omposite		Required Analysis / Preservative	
2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 40 CFR Part 136.								Comments/Notes	
Date	Time	Sample Identification		Number of Containers		Matrix (Refer to Key)		(G)rab or (C)omposite		Required Analysis / Preservative	
05/23/18	0422	W-31 A		1		DW 1 HND3 HND3				DWF RM 107	
	0423	W-32 A		1						DW RM 107	
	0423	W-33 A		1						DWF RM 110	
	0424	W-34 A		1						DW RM 110	
	0425	W-35 A		1						DWF RM 106	
	0426	W-36 A		1						DW RM 106	
	0428	W-37 A		1						F (Right) 5 th grade HW	
	0429	W-38 A		1						F (Left) 5 th grade HW	
	0431	W-39 A		1						F (Right) HW 104.2	
	0432	W-40 A		1						F (Left) HW 104.2	
For Laboratory Use Only		Lab Comments		Sampled by (Name - Print)		Client Remarks/Comments		Date		Time	
Ice		Custody Seals		Katrina Riley		Date		Time		Date	
Y (N)		Y (N)		Relinquished by: (SIGNATURE)		05/23/18 11:00		Hubco Anez		5/23/18 11:00	
Blank/Cooler Temp		N/A		Relinquished by: (SIGNATURE)		5/23/18 15:00		Hubco Anez		5/23/18 15:00	
				Relinquished by: (SIGNATURE)		5/24/18		Hubco Anez		5/24/18	
				Relinquished by: (SIGNATURE)		08:00					

Client Name/Address GLE Associates 18-144-0298 23169 05-24-2018 14:47:50		Client Project Manager/Contact Katrina Riley Project/Site Location (City/State) Mt. Zion ES		Billing Information ☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	
Project Description Pb and Pb Project Number 18000 - 18861		Project Manager/Phone # Jonesburg LA 404 373 3844		Project Manager Email Kriley@gleassociates.com	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Number of Containers Unless noted, all containers per Table II of 40 CFR Part 136.		Project Manager Email Kriley@gleassociates.com	
Sample Identification Date Time 05/23/18 0434 W-41 A 0436 W-42 A 0437 W-43 A 0442 W-44 A 0445 W-45 A 0446 W-46 A 0447 W-47 A 0448 W-48 A 0449 W-49 A 0450 W-50 A		Matrix (Refer to Key) DW (7 HNO3 HNO3)		(G)rab or (C)omposite 200.8 lb 200.8 lb	
Required Analysis / Preservative		Comments/Notes DW RM 102.1 DW F (Right) Add to MC DW F (Left) Add to MC DW Media Center (MC) DNF RM 132 DW RM 132 DNF RM 131 DW RM 131 DNF RM 129 DW RM 129		Site/Facility ID # Mt. Zion ES	
Client Remarks/Comments Sampled by (Name - Print) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE)		Date Time 5/21/18 11:00 5/23/18 15:00 5/24/18 08:00		Date Time 5/23/18 11:00 5/23/18 15:00 5/24/18 08:00	

18-144-0298
23169
05-24-2018
14:47:50



GLE Associates
CCPS: Mt. Zion ES

☐ RUSH - Additional charges apply
☐ Special Detection Limit(s)
Date Results Needed

groundwater
/Solid O - Oil

GLE Associates

Project Description

Project/Site Location (City/State)

Mt. Zion ES

David Cu

Project Number

18000-18861

Project Manager Phone #

404-373-3844

Project Manager Email

Kikay@gleassociates.com

Purchase Order Number

Site/Facility ID #

Mt. Zion ES

Waypoint
ANALYTICAL

2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers
per Table II of 40 CFR Part
136.

200.876
200.86u

Matrix (Refer to Key)

Required Analysis / Preservative

Comments/Notes

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(g)rab or (C)omposite	Required Analysis / Preservative	Comments/Notes
05/23/18	0451	W-51A	1	DW G HNO ₃			DWF RM 128
	0452	W-52A	1				DW RM 128
	0453	W-53A	1				F (Right) 3rd grade HW
	0454	W-54A	1				F (Left) 3rd grade HW
	0455	W-55A	1				F (Right) Admin office HW
	0456	W-56A	1				F (Left) Admin office HW
	0458	W-57A	1				DW Admin Office
	0502	W-58A	1				F Cafeteria
	0503	W-59A	1				F Cafeteria
	0504	W-60A	1				DW Kitchen

For Laboratory Use Only				Client Remarks/Comments			
Ice		Custody Seals		Lab Comments			
Y(N)		Y(N)					
Blank/Cooler Temp		N/A					
Date		Time		Received by: (SIGNATURE)		Date	
05/23/18		11:00		H060 AVER		5/23/18	
Date		Time		Received by: (SIGNATURE)		Date	
5/23/18		15:00		F0605X		5/23/18	
Date		Time		Received by: (SIGNATURE)		Date	
5/24/18		08:00		H. Phillips		5/24/18	

 SafeSource Inc.[®] Farm No. 811-2/E15CS000385 07/15

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 or Sean Earley at 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.

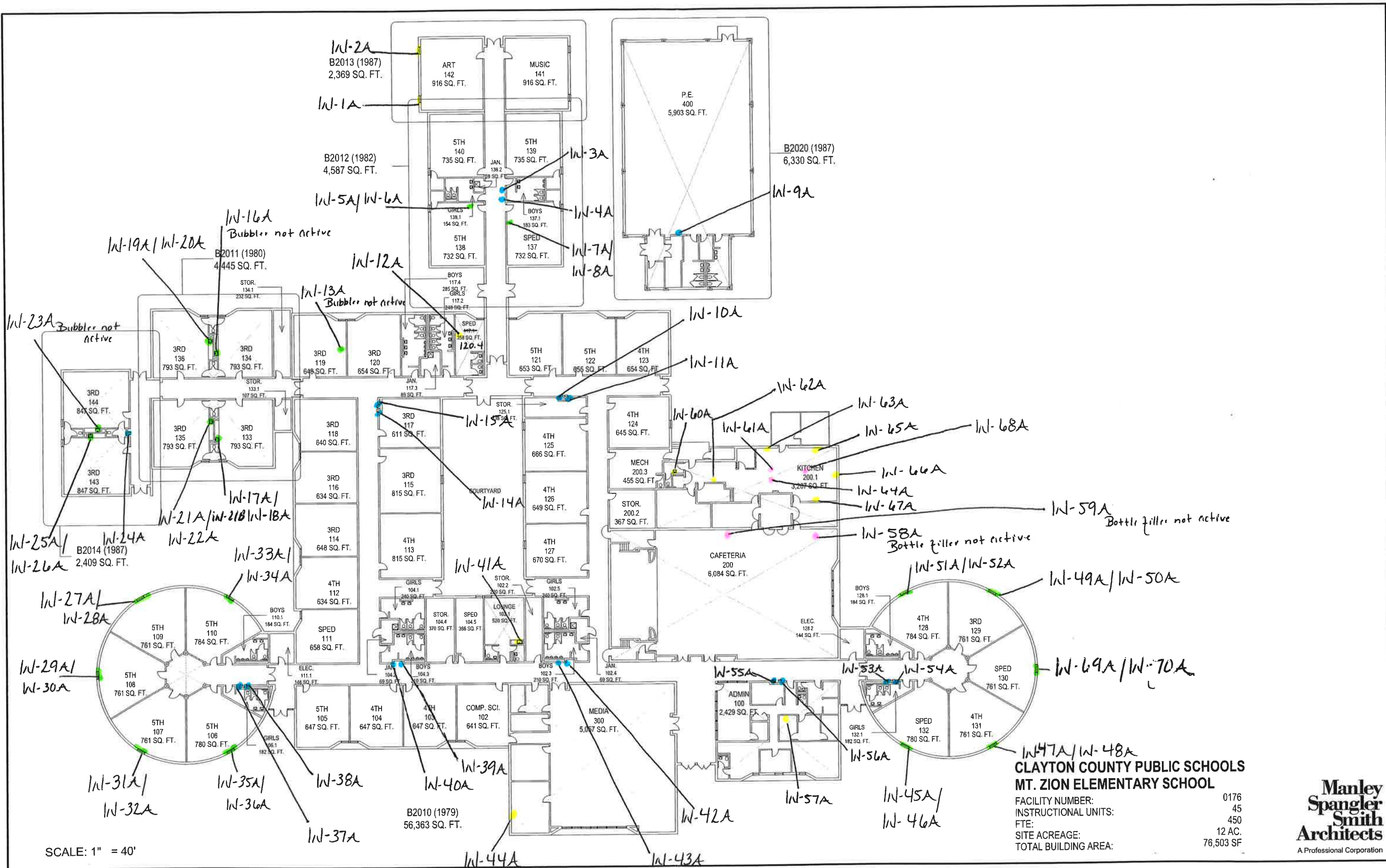
If you have any questions or comments please feel free in contacting me at rmedina@waypointanalytical.com.

Respectfully,

Dr. Richard Medina
Chief Quality Officer

APPENDIX C

Sampling Plan



SCALE: 1" = 40'

**CLAYTON COUNTY PUBLIC SCHOOLS
MT. ZION ELEMENTARY SCHOOL**

FACILITY NUMBER:	0176
INSTRUCTIONAL UNITS:	45
FTE:	450
SITE ACREAGE:	12 AC.
TOTAL BUILDING AREA:	76,503 SF

**Manley
Spangler
Smith
Architects**
A Professional Corporation