

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

**Church Street Elementary School
CCPS No: 4050
7013 Church Street
Riverdale, Georgia, 30274**

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 Church Street 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 24, 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 Church Street Elementary School located at 7013 Church Street, in Riverdale, Georgia. On June 26, 2018, Ms. Katrina Riley returned to the site to conduct follow-up sampling of the water fountain with elevated analytical results for lead in Room 10. According to the Client's representative, Church Street Elementary was originally constructed in 1966, with major renovations or additions in 1967, 1976, 1980, 1983, 1986, 2001, and 2013. It is our understanding that no previous water testing has been conducted at Church Street Elementary 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 designated 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 sampled were flushed for 10 minutes and were flushed from the faucet located furthest away from the service line on each wing and 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_3). 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 78 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. Six unflushed outlets associated with Rooms 23, 24 and 25 were sampled during the initial sampling event but were not analyzed, per the Client’s request. The sample ID consisted of “W” for water, sample number, followed by A for initial first draw or followed by 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 1.00 microgram per liter ($\mu\text{g/L}$) or parts per billion (ppb) and for copper sample analysis was 5.00 micrograms per liter ($\mu\text{g/L}$) 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 $\mu\text{g/L}$ or ppb** and if the copper level exceeds **1,300 $\mu\text{g/L}$ or ppb**. Public water supply (PWS) systems are subject to an action level (AL) of **15 $\mu\text{g/L}$ 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 $\mu\text{g/L}$ or ppb for lead and 1,300 $\mu\text{g/L}$ or ppb for copper**.

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
CHURCH STREET ELEMENTARY SCHOOL

SAMPLE NUMBER		TEST LOCATION	FIRST DRAW SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W1A	W1-B	CLASSROOM-10 DRINKING WATER FOUNTAIN	120	8.93
W2A		CLASSROOM- 10 FAUCET	1.25	179
W3A		CLASSROOM-19 DRINKING WATER FOUNTAIN	3.02	169
W4A		CLASSROOM-19 FAUCET	2.82	176
W5A		CLASSROOM-9 DRINKING WATER FOUNTAIN	3.48	170
W6A		CLASSROOM-9 FAUCET	3.64	151
W7A		CLASSROOM-18 DRINKING WATER FOUNTAIN	1.45	127
W8A		CLASSROOM-18 FAUCET	0.617	112
W9A		CLASSROOM-17 DRINKING WATER FOUNTAIN	1.78	109
W10A		CLASSROOM-17 FAUCET	BRL	85.9
W11A		HALLWAY ACROSS FROM CLASSROOM 17- DRINKING WATER FOUNTAIN (RIGHT)	BRL	117
W12A		HALLWAY ACROSS FROM CLASSROOM 17- DRINKING WATER FOUNTAIN (LEFT)	BRL	91.1
W13A		CLASSROOM-16 DRINKING WATER FOUNTAIN	3.98	138
W14A		CLASSROOM-16 FAUCET	1.21	118
W15A		CLASSROOM-8 DRINKING WATER FOUNTAIN	2.41	115

TABLE 4.1
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CHURCH STREET ELEMENTARY SCHOOL

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W16A	CLASSROOM-8 FAUCET	0.656	127
W17A	CLASSROOM-7 DRINKING WATER FOUNTAIN	1.88	115
W18A	CLASSROOM-7 FAUCET	0.843	101
W19A	CLASSROOM-15 DRINKING WATER FOUNTAIN	1.07	128
W20A	CLASSROOM-15 FAUCET	0.698	108
W21A	CLASSROOM-6 DRINKING WATER FOUNTAIN	BRL	78.1
W22A	CLASSROOM-6 FAUCET	BRL	77.0
W23A	CLASSROOM-14 DRINKING WATER FOUNTAIN	0.874	88.2
W24A	CLASSROOM-14 FAUCET	1.94	103
W25A	CLASSROOM-13 DRINKING WATER FOUNTAIN	2.16	85.7
W26A	CLASSROOM-13 FAUCET	0.949	107
W27A	CLASSROOM-5 DRINKING WATER FOUNTAIN	BRL	84.1
W28A	CLASSROOM-5 FAUCET	BRL	72.4
W29A	CLASSROOM-12 DRINKING WATER FOUNTAIN	1.53	178
W30A	CLASSROOM-12 FAUCET	1.24	101

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
CHURCH STREET ELEMENTARY SCHOOL

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W31A	CLASSROOM-4 DRINKING WATER FOUNTAIN	0.610	68.8
W32A	CLASSROOM-4 FAUCET	BRL	80.2
W33A	CLASSROOM-3 DRINKING WATER FOUNTAIN	BRL	79.6
W34A	CLASSROOM-3 FAUCET	BRL	69.1
W35A	CLASSROOM-2 DRINKING WATER FOUNTAIN	0.663	67.2
W36A	CLASSROOM-2 FAUCET	BRL	53.5
W37A	CLASSROOM-1 DRINKING WATER FOUNTAIN	BRL	54.3
W38A	CLASSROOM-1 FAUCET	BRL	62.4
W39A	HALLWAY NEAR ROOM 2- DRINKING WATER FOUNTAIN	BRL	48.4
W40A	MEDIA CENTER- FAUCET	2.58	25.7
W41A	HALLWAY NEAR ROOM 40- DRINKING WATER FOUNTAIN	BRL	44.1
W48A	HALLWAY NEAR ROOM 27- DRINKING WATER FOUNTAIN	BRL	38.6
W49A	HALLWAY NEAR ROOM 36- DRINKING WATER FOUNTAIN	BRL	91.3
W50A	CLASSROOM-52 DRINKING WATER FOUNTAIN	BRL	156
W51A	CLASSROOM-52 FAUCET	BRL	122

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
CHURCH STREET ELEMENTARY SCHOOL

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W52A	CLASSROOM-51 DRINKING WATER FOUNTAIN	BRL	88.5
W53A	CLASSROOM-51 FAUCET	BRL	69.1
W54A	CLASSROOM-50 DRINKING WATER FOUNTAIN	0.708	176
W55A	CLASSROOM-50 FAUCET	BRL	187
W56A	CLASSROOM-49 DRINKING WATER FOUNTAIN	BRL	103
W57A	CLASSROOM-49 FAUCET	BRL	128
W58A	CLASSROOM-48 DRINKING WATER FOUNTAIN	0.532	96.3
W59A	CLASSROOM-48 FAUCET	BRL	98.5
W60A	CLASSROOM-47 DRINKING WATER FOUNTAIN	1.24	180
W61A	CLASSROOM-47 FAUCET	1.11	212
W62A	CLASSROOM-45- DRINKING WATER FOUNTAIN	BRL	110
W63A	CLASSROOM-45 FAUCET	BRL	91.8
W64A	CLASSROOM-46 DRINKING WATER FOUNTAIN	BRL	102
W65A	CLASSROOM-46 FAUCET	BRL	87.2
W66A	HALLWAY NEAR CUSTODIAN ROOM 43.2- DRINKING WATER FOUNTAIN (RIGHT)	BRL	44.5

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
CHURCH STREET ELEMENTARY SCHOOL

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW SAMPLE RESULTS (µg/L)	FIRST DRAW-COPPER SAMPLE RESULTS (µg/L)
W67A	HALLWAY NEAR CUSTODIAN ROOM 43.2- DRINKING WATER FOUNTAIN (LEFT)	BRL	50.1
W68A	HALLWAY NEAR ADMINISTRATIVE OFFICE- DRINKING WATER FOUNTAIN	BRL	73.3
W69A	CAFETERIA- DRINKING WATER FOUNTAIN	BRL	65.3
W70A	KITCHEN- ICE	BRL	BRL
W71A	KITCHEN NORTH BACK WALL- FAUCET (RIGHT)	BRL	77.7
W72A	KITCHEN NORTH BACK WALL- FAUCET (LEFT)	BRL	78.1
W73A	KITCHEN- PIPE	0.945	79.7
W74A	KITCHEN NORTH WALL- FAUCET	0.761	101
W75A	KITCHEN- STEAMER	BRL	122
W76A	KITCHEN WEST WALL- FAUCET	0.712	138
W77A	GYMNASIUM- DRINKING WATER FOUNTAIN	BRL	66.1

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 AND RECOMMENDATIONS

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

1. A total of 77 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 the Church Street Elementary. During the initial assessment, 71 first draw water samples were submitted to the laboratory for analysis, and six samples were not analyzed for lead and copper content due to flushing times not meeting the 8 to 18-hour minimum requirement.
2. 39 of the 71 first draw water samples analyzed indicated detectable levels of lead. One of the 39 first draw water samples with a detectable level of lead was **greater** than the EPA PWS AL of 15 $\mu\text{g}/\text{L}$. This outlet, the drinking water fountain in Room 10, was removed from service for drinking water until follow-up sampling was conducted. A subsequent first draw water sample from the identified water fountain in Room 10, was collected on June 26, 2018 after the Client replaced the drinking water fountain. A detectable level of lead was identified in the follow up sample collected from the fountain, but was **less** than the EPA PWS AL of 15 $\mu\text{g}/\text{L}$.
3. 71 of the 71 first draw water samples analyzed indicated detectable levels of copper. None of the 71 first draw water samples with detectable levels of copper was **greater** than 1300 $\mu\text{g}/\text{L}$.

6.0 LIMITATIONS

The results of this assessment apply only to those specific Client-designated water outlets sampled. Classrooms 23, 24 and 25 were not sampled per the Client request. 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

6/1/2018

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

Ref: Analytical Testing
 Lab Report Number: 18-145-0260
 Client Project Description: CCPS: Church Street ES
 Riverdale, GA

Dear Ms. Katrina Riley:

Waypoint Analytical, Inc. received sample(s) on 5/25/2018 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.

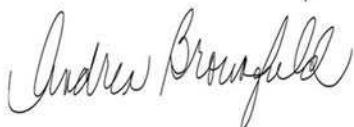
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established 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	





2790 Whitten Road, Memphis, TN 38133
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Sample Summary Table

Report Number: 18-145-0260

Client Project Description: CCPS: Church Street ES
Riverdale, GA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
90326	W1 - A	Aqueous	05/24/2018 03:10	05/25/2018
90327	W2 - A	Aqueous	05/24/2018 03:11	05/25/2018
90328	W3 - A	Aqueous	05/24/2018 03:11	05/25/2018
90329	W4 - A	Aqueous	05/24/2018 03:12	05/25/2018
90330	W5 - A	Aqueous	05/24/2018 03:13	05/25/2018
90331	W6 - A	Aqueous	05/24/2018 03:14	05/25/2018
90332	W7 - A	Aqueous	05/24/2018 03:15	05/25/2018
90333	W8 - A	Aqueous	05/24/2018 03:15	05/25/2018
90334	W9 - A	Aqueous	05/24/2018 03:16	05/25/2018
90335	W10 - A	Aqueous	05/24/2018 03:17	05/25/2018
90336	W11 - A	Aqueous	05/24/2018 03:18	05/25/2018
90337	W12 - A	Aqueous	05/24/2018 03:19	05/25/2018
90338	W13 - A	Aqueous	05/24/2018 03:22	05/25/2018
90339	W14 - A	Aqueous	05/24/2018 03:23	05/25/2018
90340	W15 - A	Aqueous	05/24/2018 03:24	05/25/2018
90341	W16 - A	Aqueous	05/24/2018 03:25	05/25/2018
90342	W17 - A	Aqueous	05/24/2018 03:27	05/25/2018
90343	W18 - A	Aqueous	05/24/2018 03:28	05/25/2018
90344	W19 - A	Aqueous	05/24/2018 03:30	05/25/2018
90345	W20 - A	Aqueous	05/24/2018 03:31	05/25/2018
90346	W21 - A	Aqueous	05/24/2018 03:32	05/25/2018
90347	W22 - A	Aqueous	05/24/2018 03:32	05/25/2018
90348	W23 - A	Aqueous	05/24/2018 03:34	05/25/2018
90349	W24 - A	Aqueous	05/24/2018 03:34	05/25/2018
90350	W25 - A	Aqueous	05/24/2018 03:36	05/25/2018
90351	W26 - A	Aqueous	05/24/2018 03:37	05/25/2018



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Sample Summary Table

Report Number: 18-145-0260

Client Project Description: CCPS: Church Street ES
Riverdale, GA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
90352	W27 - A	Aqueous	05/24/2018 03:38	05/25/2018
90353	W28 - A	Aqueous	05/24/2018 03:39	05/25/2018
90354	W29 - A	Aqueous	05/24/2018 03:40	05/25/2018
90355	W30 - A	Aqueous	05/24/2018 03:40	05/25/2018
90356	W31 - A	Aqueous	05/24/2018 03:42	05/25/2018
90357	W32 - A	Aqueous	05/24/2018 03:43	05/25/2018
90358	W33 - A	Aqueous	05/24/2018 03:44	05/25/2018
90359	W34 - A	Aqueous	05/24/2018 03:45	05/25/2018
90360	W35 - A	Aqueous	05/24/2018 03:46	05/25/2018
90361	W36 - A	Aqueous	05/24/2018 03:47	05/25/2018
90362	W37 - A	Aqueous	05/24/2018 03:48	05/25/2018
90363	W38 - A	Aqueous	05/24/2018 03:49	05/25/2018
90364	W39 - A	Aqueous	05/24/2018 03:49	05/25/2018
90365	W40 - A	Aqueous	05/24/2018 03:57	05/25/2018
90366	W41 - A	Aqueous	05/24/2018 04:00	05/25/2018
90367	W48 - A	Aqueous	05/24/2018 04:11	05/25/2018
90368	W49 - A	Aqueous	05/24/2018 04:14	05/25/2018
90369	W50 - A	Aqueous	05/24/2018 04:17	05/25/2018
90370	W51 - A	Aqueous	05/24/2018 04:18	05/25/2018
90371	W52 - A	Aqueous	05/24/2018 04:19	05/25/2018
90372	W53 - A	Aqueous	05/24/2018 04:19	05/25/2018
90373	W54 - A	Aqueous	05/24/2018 04:20	05/25/2018
90374	W55 - A	Aqueous	05/24/2018 04:21	05/25/2018
90375	W56 - A	Aqueous	05/24/2018 04:22	05/25/2018
90376	W57 - A	Aqueous	05/24/2018 04:22	05/25/2018
90377	W58 - A	Aqueous	05/24/2018 04:24	05/25/2018



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Sample Summary Table

Report Number: 18-145-0260

Client Project Description: CCPS: Church Street ES
Riverdale, GA

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
90378	W59 - A	Aqueous	05/24/2018 04:24	05/25/2018
90379	W60 - A	Aqueous	05/24/2018 04:25	05/25/2018
90380	W61 - A	Aqueous	05/24/2018 04:26	05/25/2018
90381	W62 - A	Aqueous	05/24/2018 04:28	05/25/2018
90382	W63 - A	Aqueous	05/24/2018 04:29	05/25/2018
90383	W64 - A	Aqueous	05/24/2018 04:29	05/25/2018
90384	W65 - A	Aqueous	05/24/2018 04:30	05/25/2018
90385	W66 - A	Aqueous	05/24/2018 04:30	05/25/2018
90386	W67 - A	Aqueous	05/24/2018 04:31	05/25/2018
90387	W68 - A	Aqueous	05/24/2018 04:39	05/25/2018
90388	W69 - A	Aqueous	05/24/2018 04:40	05/25/2018
90389	W70 - A	Aqueous	05/24/2018 04:45	05/25/2018
90390	W71 - A	Aqueous	05/24/2018 04:46	05/25/2018
90391	W72 - A	Aqueous	05/24/2018 04:47	05/25/2018
90392	W73 - A	Aqueous	05/24/2018 04:49	05/25/2018
90393	W74 - A	Aqueous	05/24/2018 04:51	05/25/2018
90394	W75 - A	Aqueous	05/24/2018 04:52	05/25/2018
90395	W76 - A	Aqueous	05/24/2018 04:53	05/25/2018
90396	W77 - A	Aqueous	05/24/2018 05:00	05/25/2018

Summary of Detected Analytes						
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Project: CCPS: Church Street ES

Report Number: 18-145-0260

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W1 - A	L 90326							
EPA-200.8	Copper			859	µg/L	0.500	05/31/2018 10:35	
EPA-200.8	Lead			120	µg/L	0.500	05/31/2018 10:35	
W2 - A	L 90327							
EPA-200.8	Copper			179	µg/L	0.500	05/31/2018 10:38	
EPA-200.8	Lead			1.25	µg/L	0.500	05/31/2018 10:38	
W3 - A	L 90328							
EPA-200.8	Copper			169	µg/L	0.500	05/31/2018 10:41	
EPA-200.8	Lead			3.02	µg/L	0.500	05/31/2018 10:41	
W4 - A	L 90329							
EPA-200.8	Copper			176	µg/L	0.500	05/31/2018 10:44	
EPA-200.8	Lead			2.82	µg/L	0.500	05/31/2018 10:44	
W5 - A	L 90330							
EPA-200.8	Copper			170	µg/L	0.500	05/31/2018 10:47	
EPA-200.8	Lead			3.48	µg/L	0.500	05/31/2018 10:47	
W6 - A	L 90331							
EPA-200.8	Copper			151	µg/L	0.500	05/31/2018 10:50	
EPA-200.8	Lead			3.64	µg/L	0.500	05/31/2018 10:50	
W7 - A	L 90332							
EPA-200.8	Copper			127	µg/L	0.500	05/31/2018 10:53	
EPA-200.8	Lead			1.45	µg/L	0.500	05/31/2018 10:53	
W8 - A	L 90333							
EPA-200.8	Copper			112	µg/L	0.500	05/31/2018 10:58	
EPA-200.8	Lead			0.617	µg/L	0.500	05/31/2018 10:58	
W9 - A	L 90334							
EPA-200.8	Copper			109	µg/L	0.500	05/31/2018 11:01	
EPA-200.8	Lead			1.78	µg/L	0.500	05/31/2018 11:01	
W10 - A	L 90335							
EPA-200.8	Copper			85.9	µg/L	0.500	05/31/2018 11:04	
W11 - A	L 90336							
EPA-200.8	Copper			117	µg/L	0.500	05/31/2018 11:05	
W12 - A	L 90337							
EPA-200.8	Copper			91.1	µg/L	0.500	05/31/2018 11:08	

Summary of Detected Analytes					
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Project: CCPS: Church Street ES

Report Number: 18-145-0260

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W13 - A	L 90338							
EPA-200.8	Copper			138	µg/L	0.500	05/31/2018 11:10	
EPA-200.8	Lead			3.98	µg/L	0.500	05/31/2018 11:10	
W14 - A	L 90339							
EPA-200.8	Copper			118	µg/L	0.500	05/31/2018 11:12	
EPA-200.8	Lead			1.21	µg/L	0.500	05/31/2018 11:12	
W15 - A	L 90340							
EPA-200.8	Copper			115	µg/L	0.500	05/31/2018 11:16	
EPA-200.8	Lead			2.41	µg/L	0.500	05/31/2018 11:16	
W16 - A	L 90341							
EPA-200.8	Copper			127	µg/L	0.500	05/31/2018 11:19	
EPA-200.8	Lead			0.656	µg/L	0.500	05/31/2018 11:19	
W17 - A	L 90342							
EPA-200.8	Copper			115	µg/L	0.500	05/31/2018 11:22	
EPA-200.8	Lead			1.88	µg/L	0.500	05/31/2018 11:22	
W18 - A	L 90343							
EPA-200.8	Copper			101	µg/L	0.500	05/31/2018 11:27	
EPA-200.8	Lead			0.843	µg/L	0.500	05/31/2018 11:27	
W19 - A	L 90344							
EPA-200.8	Copper			128	µg/L	0.500	05/31/2018 11:30	
EPA-200.8	Lead			1.07	µg/L	0.500	05/31/2018 11:30	
W20 - A	L 90345							
EPA-200.8	Copper			108	µg/L	0.500	05/31/2018 11:33	
EPA-200.8	Lead			0.698	µg/L	0.500	05/31/2018 11:33	
W21 - A	L 90346							
EPA-200.8	Copper			78.1	µg/L	0.500	05/31/2018 11:47	
W22 - A	L 90347							
EPA-200.8	Copper			77.0	µg/L	0.500	05/31/2018 11:53	
W23 - A	L 90348							
EPA-200.8	Copper			88.2	µg/L	0.500	05/31/2018 11:54	
EPA-200.8	Lead			0.874	µg/L	0.500	05/31/2018 11:54	
W24 - A	L 90349							
EPA-200.8	Copper			103	µg/L	0.500	05/31/2018 11:55	
EPA-200.8	Lead			1.94	µg/L	0.500	05/31/2018 11:55	

Summary of Detected Analytes					
Project:	CCPS: Church Street ES				
Report Number:	18-145-0260				
Client Sample ID	Lab Sample ID	Result	Units	Report Limit	Analyzed
Method	Parameters				Qualifiers

W25 - A	L 90350				
EPA-200.8	Copper	85.7	µg/L	0.500	05/31/2018 11:58
EPA-200.8	Lead	2.16	µg/L	0.500	05/31/2018 11:58
W26 - A	L 90351				
EPA-200.8	Copper	107	µg/L	0.500	05/31/2018 11:59
EPA-200.8	Lead	0.949	µg/L	0.500	05/31/2018 11:59
W27 - A	L 90352				
EPA-200.8	Copper	84.1	µg/L	0.500	05/31/2018 12:02
W28 - A	L 90353				
EPA-200.8	Copper	72.4	µg/L	0.500	05/31/2018 12:04
W29 - A	L 90354				
EPA-200.8	Copper	178	µg/L	0.500	05/31/2018 12:05
EPA-200.8	Lead	1.53	µg/L	0.500	05/31/2018 12:05
W30 - A	L 90355				
EPA-200.8	Copper	101	µg/L	0.500	05/31/2018 12:08
EPA-200.8	Lead	1.24	µg/L	0.500	05/31/2018 12:08
W31 - A	L 90356				
EPA-200.8	Copper	68.8	µg/L	0.500	05/31/2018 12:11
EPA-200.8	Lead	0.610	µg/L	0.500	05/31/2018 12:11
W32 - A	L 90357				
EPA-200.8	Copper	80.2	µg/L	0.500	05/31/2018 12:16
W33 - A	L 90358				
EPA-200.8	Copper	79.6	µg/L	0.500	05/31/2018 12:17
W34 - A	L 90359				
EPA-200.8	Copper	69.1	µg/L	0.500	05/31/2018 12:19
W35 - A	L 90360				
EPA-200.8	Copper	67.2	µg/L	0.500	05/31/2018 12:20
EPA-200.8	Lead	0.663	µg/L	0.500	05/31/2018 12:20
W36 - A	L 90361				
EPA-200.8	Copper	53.5	µg/L	0.500	05/31/2018 12:22
W37 - A	L 90362				
EPA-200.8	Copper	54.3	µg/L	0.500	05/31/2018 12:23

Summary of Detected Analytes						
Project:	CCPS: Church Street ES					
Report Number:	18-145-0260					
Client Sample ID	Lab Sample ID					
Method	Parameters		Result	Units	Report Limit	Analyzed

Client Sample ID	Lab Sample ID					
Method	Parameters		Result	Units	Report Limit	Analyzed
W38 - A	L 90363					
EPA-200.8	Copper		62.4	µg/L	0.500	05/31/2018 12:24
W39 - A	L 90364					
EPA-200.8	Copper		48.4	µg/L	0.500	05/31/2018 12:26
W40 - A	L 90365					
EPA-200.8	Copper		25.7	µg/L	0.500	05/31/2018 12:27
EPA-200.8	Lead		2.58	µg/L	0.500	05/31/2018 12:27
W41 - A	L 90366					
EPA-200.8	Copper		44.1	µg/L	0.500	05/31/2018 12:40
W48 - A	L 90367					
EPA-200.8	Copper		38.6	µg/L	0.500	05/31/2018 12:42
W49 - A	L 90368					
EPA-200.8	Copper		91.3	µg/L	0.500	05/31/2018 12:43
W50 - A	L 90369					
EPA-200.8	Copper		156	µg/L	0.500	05/31/2018 12:44
W51 - A	L 90370					
EPA-200.8	Copper		122	µg/L	0.500	05/31/2018 12:47
W52 - A	L 90371					
EPA-200.8	Copper		88.5	µg/L	0.500	05/31/2018 12:53
W53 - A	L 90372					
EPA-200.8	Copper		69.1	µg/L	0.500	05/31/2018 12:54
W54 - A	L 90373					
EPA-200.8	Copper		176	µg/L	0.500	05/31/2018 12:55
EPA-200.8	Lead		0.708	µg/L	0.500	05/31/2018 12:55
W55 - A	L 90374					
EPA-200.8	Copper		187	µg/L	0.500	05/31/2018 12:58
W56 - A	L 90375					
EPA-200.8	Copper		103	µg/L	0.500	05/31/2018 13:01
W57 - A	L 90376					
EPA-200.8	Copper		128	µg/L	0.500	05/31/2018 13:04
W58 - A	L 90377					
EPA-200.8	Copper		96.3	µg/L	0.500	05/31/2018 13:07

Summary of Detected Analytes						
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Project: CCPS: Church Street ES

Report Number: 18-145-0260

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W58 - A	L 90377	EPA-200.8	Lead	0.532	µg/L	0.500	05/31/2018 13:07	
W59 - A	L 90378	EPA-200.8	Copper	98.5	µg/L	0.500	05/31/2018 13:08	
W60 - A	L 90379	EPA-200.8	Copper	180	µg/L	0.500	05/31/2018 13:10	
		EPA-200.8	Lead	1.24	µg/L	0.500	05/31/2018 13:10	
W61 - A	L 90380	EPA-200.8	Copper	212	µg/L	0.500	05/31/2018 13:13	
		EPA-200.8	Lead	1.11	µg/L	0.500	05/31/2018 13:13	
W62 - A	L 90381	EPA-200.8	Copper	110	µg/L	0.500	05/31/2018 13:18	
W63 - A	L 90382	EPA-200.8	Copper	91.8	µg/L	0.500	05/31/2018 13:21	
W64 - A	L 90383	EPA-200.8	Copper	102	µg/L	0.500	05/31/2018 13:22	
W65 - A	L 90384	EPA-200.8	Copper	87.2	µg/L	0.500	05/31/2018 13:25	
W66 - A	L 90385	EPA-200.8	Copper	44.5	µg/L	0.500	05/31/2018 13:26	
W67 - A	L 90386	EPA-200.8	Copper	50.1	µg/L	0.500	05/31/2018 13:40	
W68 - A	L 90387	EPA-200.8	Copper	73.3	µg/L	0.500	05/31/2018 13:41	
W69 - A	L 90388	EPA-200.8	Copper	65.3	µg/L	0.500	05/31/2018 13:42	
W71 - A	L 90390	EPA-200.8	Copper	77.7	µg/L	0.500	05/31/2018 13:45	
W72 - A	L 90391	EPA-200.8	Copper	78.1	µg/L	0.500	05/31/2018 13:47	
W73 - A	L 90392	EPA-200.8	Copper	79.7	µg/L	0.500	05/31/2018 13:48	

Summary of Detected Analytes						
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Project: CCPS: Church Street ES

Report Number: 18-145-0260

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W73 - A	L 90392	EPA-200.8	Lead	0.945	µg/L	0.500	05/31/2018 13:48	
W74 - A	L 90393	EPA-200.8	Copper	101	µg/L	0.500	05/31/2018 13:49	
		EPA-200.8	Lead	0.761	µg/L	0.500	05/31/2018 13:49	
W75 - A	L 90394	EPA-200.8	Copper	122	µg/L	0.500	05/31/2018 13:52	
W76 - A	L 90395	EPA-200.8	Copper	138	µg/L	0.500	05/31/2018 13:57	
		EPA-200.8	Lead	0.712	µg/L	0.500	05/31/2018 13:57	
W77 - A	L 90396	EPA-200.8	Copper	66.1	µg/L	0.500	05/31/2018 14:00	



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Information : Riverdale, GA

Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90326**

Matrix: **Aqueous**

Sample ID : **W1 - A**

Sampled: **5/24/2018 3:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	859	µg/L	0.500	1	05/31/18 10:35	CCR	EPA-200.8
Lead	120	µg/L	0.500	1	05/31/18 10:35	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90327**

Matrix: **Aqueous**

Sample ID : **W2 - A**

Sampled: **5/24/2018 3:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	179	µg/L	0.500	1	05/31/18 10:38	CCR	EPA-200.8
Lead	1.25	µg/L	0.500	1	05/31/18 10:38	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90328**

Matrix: **Aqueous**

Sample ID : **W3 - A**

Sampled: **5/24/2018 3:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	169	µg/L	0.500	1	05/31/18 10:41	CCR	EPA-200.8
Lead	3.02	µg/L	0.500	1	05/31/18 10:41	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90329**

Matrix: **Aqueous**

Sample ID : **W4 - A**

Sampled: **5/24/2018 3:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	176	µg/L	0.500	1	05/31/18 10:44	CCR	EPA-200.8
Lead	2.82	µg/L	0.500	1	05/31/18 10:44	CCR	EPA-200.8

**Qualifiers/
Definitions** DF Dilution Factor MQL Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90330**

Matrix: **Aqueous**

Sample ID : **W5 - A**

Sampled: **5/24/2018 3:13**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	170	µg/L	0.500	1	05/31/18 10:47	CCR	EPA-200.8
Lead	3.48	µg/L	0.500	1	05/31/18 10:47	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90331**

Matrix: **Aqueous**

Sample ID : **W6 - A**

Sampled: **5/24/2018 3:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	151	µg/L	0.500	1	05/31/18 10:50	CCR	EPA-200.8
Lead	3.64	µg/L	0.500	1	05/31/18 10:50	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90332**

Matrix: **Aqueous**

Sample ID : **W7 - A**

Sampled: **5/24/2018 3:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	127	µg/L	0.500	1	05/31/18 10:53	CCR	EPA-200.8
Lead	1.45	µg/L	0.500	1	05/31/18 10:53	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90333**

Matrix: **Aqueous**

Sample ID : **W8 - A**

Sampled: **5/24/2018 3:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	112	µg/L	0.500	1	05/31/18 10:58	CCR	EPA-200.8
Lead	0.617	µg/L	0.500	1	05/31/18 10:58	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90334**

Matrix: **Aqueous**

Sample ID : **W9 - A**

Sampled: **5/24/2018 3:16**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	109	µg/L	0.500	1	05/31/18 11:01	CCR	EPA-200.8
Lead	1.78	µg/L	0.500	1	05/31/18 11:01	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90335**

Matrix: **Aqueous**

Sample ID : **W10 - A**

Sampled: **5/24/2018 3:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	85.9	µg/L	0.500	1	05/31/18 11:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 11:04	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90336**

Matrix: **Aqueous**

Sample ID : **W11 - A**

Sampled: **5/24/2018 3:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	117	µg/L	0.500	1	05/31/18 11:05	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 11:05	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90337**

Matrix: **Aqueous**

Sample ID : **W12 - A**

Sampled: **5/24/2018 3:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	91.1	µg/L	0.500	1	05/31/18 11:08	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 11:08	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90338**

Matrix: **Aqueous**

Sample ID : **W13 - A**

Sampled: **5/24/2018 3:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	138	µg/L	0.500	1	05/31/18 11:10	CCR	EPA-200.8
Lead	3.98	µg/L	0.500	1	05/31/18 11:10	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90339**

Matrix: **Aqueous**

Sample ID : **W14 - A**

Sampled: **5/24/2018 3:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	118	µg/L	0.500	1	05/31/18 11:12	CCR	EPA-200.8
Lead	1.21	µg/L	0.500	1	05/31/18 11:12	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018
Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90340**

Matrix: **Aqueous**

Sample ID : **W15 - A**

Sampled: **5/24/2018 3:24**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	115	µg/L	0.500	1	05/31/18 11:16	CCR	EPA-200.8
Lead	2.41	µg/L	0.500	1	05/31/18 11:16	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90341**

Matrix: **Aqueous**

Sample ID : **W16 - A**

Sampled: **5/24/2018 3:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	127	µg/L	0.500	1	05/31/18 11:19	CCR	EPA-200.8
Lead	0.656	µg/L	0.500	1	05/31/18 11:19	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90342**

Matrix: **Aqueous**

Sample ID : **W17 - A**

Sampled: **5/24/2018 3:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	115	µg/L	0.500	1	05/31/18 11:22	CCR	EPA-200.8
Lead	1.88	µg/L	0.500	1	05/31/18 11:22	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90343**

Matrix: **Aqueous**

Sample ID : **W18 - A**

Sampled: **5/24/2018 3:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	101	µg/L	0.500	1	05/31/18 11:27	CCR	EPA-200.8
Lead	0.843	µg/L	0.500	1	05/31/18 11:27	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90344**

Matrix: **Aqueous**

Sample ID : **W19 - A**

Sampled: **5/24/2018 3:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	128	µg/L	0.500	1	05/31/18 11:30	CCR	EPA-200.8
Lead	1.07	µg/L	0.500	1	05/31/18 11:30	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90345**

Matrix: **Aqueous**

Sample ID : **W20 - A**

Sampled: **5/24/2018 3:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	108	µg/L	0.500	1	05/31/18 11:33	CCR	EPA-200.8
Lead	0.698	µg/L	0.500	1	05/31/18 11:33	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90346**

Matrix: **Aqueous**

Sample ID : **W21 - A**

Sampled: **5/24/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	78.1	µg/L	0.500	1	05/31/18 11:47	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 11:47	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90347**

Matrix: **Aqueous**

Sample ID : **W22 - A**

Sampled: **5/24/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	77.0	µg/L	0.500	1	05/31/18 11:53	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 11:53	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90348**

Matrix: **Aqueous**

Sample ID : **W23 - A**

Sampled: **5/24/2018 3:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	88.2	µg/L	0.500	1	05/31/18 11:54	CCR	EPA-200.8
Lead	0.874	µg/L	0.500	1	05/31/18 11:54	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90349**

Matrix: **Aqueous**

Sample ID : **W24 - A**

Sampled: **5/24/2018 3:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	103	µg/L	0.500	1	05/31/18 11:55	CCR	EPA-200.8
Lead	1.94	µg/L	0.500	1	05/31/18 11:55	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90350**

Matrix: **Aqueous**

Sample ID : **W25 - A**

Sampled: **5/24/2018 3:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	85.7	µg/L	0.500	1	05/31/18 11:58	CCR	EPA-200.8
Lead	2.16	µg/L	0.500	1	05/31/18 11:58	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90351**

Matrix: **Aqueous**

Sample ID : **W26 - A**

Sampled: **5/24/2018 3:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	107	µg/L	0.500	1	05/31/18 11:59	CCR	EPA-200.8
Lead	0.949	µg/L	0.500	1	05/31/18 11:59	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90352**

Matrix: **Aqueous**

Sample ID : **W27 - A**

Sampled: **5/24/2018 3:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	84.1	µg/L	0.500	1	05/31/18 12:02	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:02	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90353**

Matrix: **Aqueous**

Sample ID : **W28 - A**

Sampled: **5/24/2018 3:39**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	72.4	µg/L	0.500	1	05/31/18 12:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:04	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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A handwritten signature in black ink, appearing to read "Andrea Brownfield".

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90354**

Matrix: **Aqueous**

Sample ID : **W29 - A**

Sampled: **5/24/2018 3:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	178	µg/L	0.500	1	05/31/18 12:05	CCR	EPA-200.8
Lead	1.53	µg/L	0.500	1	05/31/18 12:05	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90355**

Matrix: **Aqueous**

Sample ID : **W30 - A**

Sampled: **5/24/2018 3:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	101	µg/L	0.500	1	05/31/18 12:08	CCR	EPA-200.8
Lead	1.24	µg/L	0.500	1	05/31/18 12:08	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90356**

Matrix: **Aqueous**

Sample ID : **W31 - A**

Sampled: **5/24/2018 3:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	68.8	µg/L	0.500	1	05/31/18 12:11	CCR	EPA-200.8
Lead	0.610	µg/L	0.500	1	05/31/18 12:11	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90357**

Matrix: **Aqueous**

Sample ID : **W32 - A**

Sampled: **5/24/2018 3:43**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	80.2	µg/L	0.500	1	05/31/18 12:16	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:16	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90358**

Matrix: **Aqueous**

Sample ID : **W33 - A**

Sampled: **5/24/2018 3:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	79.6	µg/L	0.500	1	05/31/18 12:17	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:17	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90359**

Matrix: **Aqueous**

Sample ID : **W34 - A**

Sampled: **5/24/2018 3:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	69.1	µg/L	0.500	1	05/31/18 12:19	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:19	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90360**

Matrix: **Aqueous**

Sample ID : **W35 - A**

Sampled: **5/24/2018 3:46**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	67.2	µg/L	0.500	1	05/31/18 12:20	CCR	EPA-200.8
Lead	0.663	µg/L	0.500	1	05/31/18 12:20	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018

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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90361**

Matrix: **Aqueous**

Sample ID : **W36 - A**

Sampled: **5/24/2018 3:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	53.5	µg/L	0.500	1	05/31/18 12:22	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:22	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90362**

Matrix: **Aqueous**

Sample ID : **W37 - A**

Sampled: **5/24/2018 3:48**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	54.3	µg/L	0.500	1	05/31/18 12:23	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:23	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90363**

Matrix: **Aqueous**

Sample ID : **W38 - A**

Sampled: **5/24/2018 3:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	62.4	µg/L	0.500	1	05/31/18 12:24	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:24	CCR	EPA-200.8

**Qualifiers/
Definitions** DF Dilution Factor MQL Method Quantitation Limit



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Report Date : 06/01/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90364**

Matrix: **Aqueous**

Sample ID : **W39 - A**

Sampled: **5/24/2018 3:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	48.4	µg/L	0.500	1	05/31/18 12:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:26	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90365**

Matrix: **Aqueous**

Sample ID : **W40 - A**

Sampled: **5/24/2018 3:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	25.7	µg/L	0.500	1	05/31/18 12:27	CCR	EPA-200.8
Lead	2.58	µg/L	0.500	1	05/31/18 12:27	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90366**

Matrix: **Aqueous**

Sample ID : **W41 - A**

Sampled: **5/24/2018 4:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	44.1	µg/L	0.500	1	05/31/18 12:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:40	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90367**

Matrix: **Aqueous**

Sample ID : **W48 - A**

Sampled: **5/24/2018 4:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	38.6	µg/L	0.500	1	05/31/18 12:42	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:42	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90368**

Matrix: **Aqueous**

Sample ID : **W49 - A**

Sampled: **5/24/2018 4:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	91.3	µg/L	0.500	1	05/31/18 12:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:43	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90369**

Matrix: **Aqueous**

Sample ID : **W50 - A**

Sampled: **5/24/2018 4:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	156	µg/L	0.500	1	05/31/18 12:44	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:44	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90370**

Matrix: **Aqueous**

Sample ID : **W51 - A**

Sampled: **5/24/2018 4:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	122	µg/L	0.500	1	05/31/18 12:47	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:47	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90371**

Matrix: **Aqueous**

Sample ID : **W52 - A**

Sampled: **5/24/2018 4:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	88.5	µg/L	0.500	1	05/31/18 12:53	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:53	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90372**

Matrix: **Aqueous**

Sample ID : **W53 - A**

Sampled: **5/24/2018 4:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	69.1	µg/L	0.500	1	05/31/18 12:54	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:54	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90373**

Matrix: **Aqueous**

Sample ID : **W54 - A**

Sampled: **5/24/2018 4:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	176	µg/L	0.500	1	05/31/18 12:55	CCR	EPA-200.8
Lead	0.708	µg/L	0.500	1	05/31/18 12:55	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90374**

Matrix: **Aqueous**

Sample ID : **W55 - A**

Sampled: **5/24/2018 4:21**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	187	µg/L	0.500	1	05/31/18 12:58	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 12:58	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90375**

Matrix: **Aqueous**

Sample ID : **W56 - A**

Sampled: **5/24/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	103	µg/L	0.500	1	05/31/18 13:01	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:01	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90376**

Matrix: **Aqueous**

Sample ID : **W57 - A**

Sampled: **5/24/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	128	µg/L	0.500	1	05/31/18 13:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:04	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90377**

Matrix: **Aqueous**

Sample ID : **W58 - A**

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

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	96.3	µg/L	0.500	1	05/31/18 13:07	CCR	EPA-200.8
Lead	0.532	µg/L	0.500	1	05/31/18 13:07	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90378**

Matrix: **Aqueous**

Sample ID : **W59 - A**

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

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	98.5	µg/L	0.500	1	05/31/18 13:08	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:08	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90379**

Matrix: **Aqueous**

Sample ID : **W60 - A**

Sampled: **5/24/2018 4:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	180	µg/L	0.500	1	05/31/18 13:10	CCR	EPA-200.8
Lead	1.24	µg/L	0.500	1	05/31/18 13:10	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90380**

Matrix: **Aqueous**

Sample ID : **W61 - A**

Sampled: **5/24/2018 4:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	212	µg/L	0.500	1	05/31/18 13:13	CCR	EPA-200.8
Lead	1.11	µg/L	0.500	1	05/31/18 13:13	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90381**

Matrix: **Aqueous**

Sample ID : **W62 - A**

Sampled: **5/24/2018 4:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	110	µg/L	0.500	1	05/31/18 13:18	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:18	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90382**

Matrix: **Aqueous**

Sample ID : **W63 - A**

Sampled: **5/24/2018 4:29**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	91.8	µg/L	0.500	1	05/31/18 13:21	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:21	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90383**

Matrix: **Aqueous**

Sample ID : **W64 - A**

Sampled: **5/24/2018 4:29**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	102	µg/L	0.500	1	05/31/18 13:22	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:22	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90384**

Matrix: **Aqueous**

Sample ID : **W65 - A**

Sampled: **5/24/2018 4:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	87.2	µg/L	0.500	1	05/31/18 13:25	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:25	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90385**

Matrix: **Aqueous**

Sample ID : **W66 - A**

Sampled: **5/24/2018 4:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	44.5	µg/L	0.500	1	05/31/18 13:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:26	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90386**

Matrix: **Aqueous**

Sample ID : **W67 - A**

Sampled: **5/24/2018 4:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	50.1	µg/L	0.500	1	05/31/18 13:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:40	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

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Andrea R. Brownfield
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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90387**

Matrix: **Aqueous**

Sample ID : **W68 - A**

Sampled: **5/24/2018 4:39**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	73.3	µg/L	0.500	1	05/31/18 13:41	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:41	CCR	EPA-200.8

Qualifiers/
Definitions

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Dilution Factor

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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90388**

Matrix: **Aqueous**

Sample ID : **W69 - A**

Sampled: **5/24/2018 4:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	65.3	µg/L	0.500	1	05/31/18 13:42	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:42	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90389**

Matrix: **Aqueous**

Sample ID : **W70 - A**

Sampled: **5/24/2018 4:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<0.500	µg/L	0.500	1	05/31/18 13:44	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:44	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

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Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90390**

Matrix: **Aqueous**

Sample ID : **W71 - A**

Sampled: **5/24/2018 4:46**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	77.7	µg/L	0.500	1	05/31/18 13:45	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:45	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Atlanta , GA 30309

Project CCPS: Church Street ES
Information : Riverdale, GA

Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90391**

Matrix: **Aqueous**

Sample ID : **W72 - A**

Sampled: **5/24/2018 4:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	78.1	µg/L	0.500	1	05/31/18 13:47	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:47	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW²Suite 820

Suite 820

Atlanta , GA 30309

Project CCPS: Church Street ES
Information : Riverdale, GA

Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90392**

Matrix: **Aqueous**

Sample ID : **W73 - A**

Sampled: **5/24/2018 4:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	79.7	µg/L	0.500	1	05/31/18 13:48	CCR	EPA-200.8
Lead	0.945	µg/L	0.500	1	05/31/18 13:48	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

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

Project CCPS: Church Street ES
Information : Riverdale, GA

Report Date : 06/01/2018
Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90393**

Matrix: **Aqueous**

Sample ID : **W74 - A**

Sampled: **5/24/2018 4:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	101	µg/L	0.500	1	05/31/18 13:49	CCR	EPA-200.8
Lead	0.761	µg/L	0.500	1	05/31/18 13:49	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



2790 Whitten Road, Memphis, TN 38133
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GLE Associates
Ms. Katrina Riley
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Suite 820
Atlanta , GA 30309

Project CCPS: Church Street ES
Information : Riverdale, GA

Report Date : 06/01/2018
Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90394**

Matrix: **Aqueous**

Sample ID : **W75 - A**

Sampled: **5/24/2018 4:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	122	µg/L	0.500	1	05/31/18 13:52	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 13:52	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Church Street ES
Information : Riverdale, GA

Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90395**

Matrix: **Aqueous**

Sample ID : **W76 - A**

Sampled: **5/24/2018 4:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	138	µg/L	0.500	1	05/31/18 13:57	CCR	EPA-200.8
Lead	0.712	µg/L	0.500	1	05/31/18 13:57	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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www.waypointanalytical.com

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW²Suite 820

Suite 820

Atlanta , GA 30309

Project CCPS: Church Street ES
Information : Riverdale, GA

Report Date : 06/01/2018

Received : 5/25/2018

Andrea R. Brownfield
Project manager

Report Number : **18-145-0260**

REPORT OF ANALYSIS

Lab No : **90396**

Matrix: **Aqueous**

Sample ID : **W77 - A**

Sampled: **5/24/2018 5:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	66.1	µg/L	0.500	1	05/31/18 14:00	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:00	CCR	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Church Street ES
Report No: 18-145-0260

QC Prep:	L383495	QC Analytical Batch(es):	L384124
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L383495	Matrix: AQU
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Associated Lab Samples: 90326, 90327, 90328, 90329, 90330, 90331, 90332, 90333, 90334, 90335, 90336, 90337, 90338, 90339, 90340, 90341

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/31/18 10:33
Lead	µg/L	< 0.500	0.500	05/31/18 10:33

Laboratory Control Sample	LCS-L383495
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	48.3	96.1	85-115
Lead	µg/L	50.3	49.5	98.5	85-115

Matrix Spike & Matrix Spike Duplicate	L 90345-MS-L383495	L 90345-MSD-L383495
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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	108	50.3	50.3	158	158	99.5	99.5	70-130	0.0	20.0
Lead	µg/L	0.698	50.3	50.3	50.2	51.1	98.5	100	70-130	1.7	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Church Street ES
Report No: 18-145-0260

QC Prep:	L383496	QC Analytical Batch(es):	L384124
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L383496	Matrix: AQU
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Associated Lab Samples: 90346, 90347, 90348, 90349, 90350, 90351, 90352, 90353, 90354, 90355, 90356, 90357, 90358, 90359, 90360, 90361

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/31/18 11:45
Lead	µg/L	< 0.500	0.500	05/31/18 11:45

Laboratory Control Sample	LCS-L383496
----------------------------------	-------------

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	50.2	99.8	85-115

Matrix Spike & Matrix Spike Duplicate	L 90365-MS-L383496	L 90365-MSD-L383496
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Parameter	Units	MS Spike Result	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	25.7	50.3	50.3	77.5	77.2	103	102	70-130	0.3
Lead	µg/L	2.58	50.3	50.3	53.6	54.0	102	102	70-130	0.7

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Church Street ES
Report No: 18-145-0260

QC Prep:	L383497	QC Analytical Batch(es):	L384124
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L383497	Matrix: AQU
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Associated Lab Samples: 90366, 90367, 90368, 90369, 90370, 90371, 90372, 90373, 90374, 90375, 90376, 90377, 90378, 90379, 90380, 90381

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/31/18 12:38
Lead	µg/L	< 0.500	0.500	05/31/18 12:38

Laboratory Control Sample	LCS-L383497
----------------------------------	-------------

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	51.3	102	85-115
Lead	µg/L	50.3	50.8	101	85-115

Matrix Spike & Matrix Spike Duplicate	L 90385-MS-L383497	L 90385-MSD-L383497
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Parameter	Units	MS Spike Result	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	44.5	50.3	50.3	92.0	94.8	94.5	100	70-130	2.9
Lead	µg/L	< 0.503	50.3	50.3	51.9	50.4	103	100	70-130	2.9

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Church Street ES
Report No: 18-145-0260

QC Prep:	L383923	QC Analytical Batch(es):	L384125
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L383923	Matrix: AQU
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Associated Lab Samples: 90386, 90387, 90388, 90389, 90390, 90391, 90392, 90393, 90394, 90395, 90396

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/31/18 13:33
Lead	µg/L	< 0.500	0.500	05/31/18 13:33

Laboratory Control Sample	LCS-L383923
----------------------------------	-------------

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	51.3	102	85-115
Lead	µg/L	50.3	50.8	101	85-115

Matrix Spike & Matrix Spike Duplicate	L 98837-MS-L383923	L 98837-MSD-L383923
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Parameter	Units	MS Spike Result	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD	
Copper	µg/L	192	50.3	50.3	244	241	103	97.5	70-130	1.2	20.0
Lead	µg/L	< 0.503	50.3	50.3	51.6	50.6	103	101	70-130	1.9	20.0

Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-145-0260**

Shipping Method

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

Shipping container/cooler uncompromised? Yes No

Number of coolers received

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.

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:

For Laboratory Use Only

Client Name/Address <i>Bill</i>	Client Project Manager/Contact <i>Katrina Rihard</i>	Billing Information 1100 Spring Street 820
Project Description Ph and Cu	Project/Site Location (City/State) Church Street ES Riverdale GA	Atlanta, GA
Project Number 18000-18861	Project Manager Phone # 404-373-3844	RUSH - Additional charges apply □ Special Detection Limit(s) Date Results Needed
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		

Project Manager Email <i>KatrinaRihard@gleassociates.com</i>			Purchase Order Number 200.8 CL	Site/Facility ID # <i>Church Street ES</i>	Comments/Notes
Date	Time	Sample Identification	Required Analysis / Preservative		
03/10/18	08:30	W1-A	DNF RM 10		
03/11	08:30	W2-A	DN	RM 10	
03/11	08:30	W3-A	DN	RM 19	
03/12	08:30	W4-A	DN	RM 19	
03/13	08:30	W5-A	DNF	RM 9	
03/14	08:30	W6-A	DN	RM 9	
03/15	08:30	W7-A	DNF	RM 18	
03/15	08:30	W8-A	DN	RM 18	
03/16	08:30	W9-A	DNF	RM 17	
03/17	08:30	W10-A	DN	RM 17	
For Laboratory Use Only			Sampled by (Name - Print) <i>Katrina Rihard</i>	Client Remarks/Comments	
Ice <input checked="" type="checkbox"/>	Custody Seals <input checked="" type="checkbox"/>	Lab Comments	Relinquished by: (SIGNATURE) <i>Katrina Rihard</i>	Date 05/24/18	Time 10:47
Blank/Cooler Temp <i>N/A TP</i>			Received by: (SIGNATURE) <i>Hiroko Arai</i>	Date 05/24/18	Time 15:00
			Relinquished by: (SIGNATURE) <i>Hiroko Arai</i>	Date 05/25/18	Time 08:15
			Received by: (SIGNATURE) <i>Hiroko Arai</i>	Date 05/24/18	Time 10:47

Client Name/Address	Client Project Manager/Contact		Billing Information		Met <input type="checkbox"/> <input checked="" type="checkbox"/>	Site/Facility ID #	Comments/Notes
	Project Description	Project/Site Location (City/State)	Project Manager Phone #	Project Manager Email			
<i>Katrina Rilaw</i> Pb and Cu Rivdale, TN 18000-18861	Church Street ES	404-373-3844	<i>katrygalassaints.rmc</i>	200.8 Cu 200.8 Ag		<i>Church Street ES</i>	
Project/Site Location (City/State)		Project Manager Phone #		Number of Containers		Required Analysis / Preservative	
Unless noted, all containers per Table II of 40 CFR Part 136.				(Grab or Composite)			
Date	Time	Sample Identification					
05/24/18	03:18	W11-A		Dil 1 H2Og HNO3		F (right) HM across from RM 7	
03:19		W12-A				F (left) HM across from RM 7	
03:22		W13-A				DWF RM 14	
03:23		W14-A				DW RM 16	
03:24		W15-A				DWF RM 8	
03:25		W16-A				DW RM 8	
03:27		W17-A				DWF RM 7	
03:28		W18-A				DW RM 7	
03:30		W19-A				DWF RM 15	
✓ 03:31		W20-A				DW RM 15	
For Laboratory Use Only						Client Remarks/Comments	
Ice Y/N	Custody Seals Y/N	Lab Comments		Received by: (Signature) <i>Katrina Rilaw</i>	Date 05/24/18 10:47	Time AM 07:27	Date 5/24/18 10:47
Blank/Cooler Temp N/A (TP)				Relinquished by: (Signature) <i>John J. Phillips</i>	Date 5/24/18 15:00	Time PM 04:57	Date 5/24/18 15:00
				Relinquished by: (Signature) <i>John J. Phillips</i>	Date 5/25/18	Time AM 07:27	Date 5/25/18

Client Name/Address		Client Project Manager/Contact		Billing Information			
<i>Kill</i>	<i>Katrina D. D.</i>	<i>Church Street ES</i>	<i>Riverdale GA</i>	<i>1100 Spring Street 820</i>	<i>18-145-0260 23169 05-25-2018 11:32:24</i>		
Project Description	Project/Site Location (City/State)						
<i>Pb and Cu</i>		<i>Church Street ES</i>		<input type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed			
Project Number	Project Manager Phone #		Project Manager Email		Purchase Order Number		
<i>18000-18861</i>	<i>404-373-3844</i>		<i>Kilby@glassassociates.com</i>		<i>200.844</i>		
Waypoint [®] ANALYTICAL		200.844		(G)rab or (C)omposite		Comments/Notes	
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	
Date	Time	Sample Identification					
5/24/18 03332		W21-A		Dil 1 HNO ₃ HNO ₃			
03332		W22-A					
0334		W23-A					
0334		W24-A					
0336		W25-A					
0337		W26-A					
0338		W27-A					
0339		W28-A					
0340		W29-A					
0340		W30-A					
For Laboratory Use Only						Sampled by (Name – Print)	
Ice	Custody Seals	Lab Comments				Client Remarks/Comments	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Blank/Cooler Temp							
<i>N/A</i>							
						Date	Time
						<i>5/24/18 10:47</i>	<i>5/24/18 10:47</i>
						Date	Time
						<i>5/24/18 15:00</i>	<i>5/24/18 15:00</i>
						Date	Time
						<i>5/25/18</i>	<i>08:15</i>

Client Name/Address		Client Project Manager/Contact		Billing Information	
1115	Katrina Riley	1100 Spring St. 820	Atlanta, GA	18-145-0260	18-145-0260
				23169	23169
				05-25-2018	05-25-2018
				11:32:24	11:32:24
				roundwater /Solid O - Oil	
Project Description		Project/Site Location (City/State)		GLE Associates CCPS: Church Street ES	
Pb and Cu Rivendale, GA		Church Street ES			
Project Number		Project Manager Phone #		Purchase Order Number	
18000-18841		404-373-3844		Other	
		Project Manager Email		Site/Facility ID #	
		Katrina.Coglassassociates.com		Church Street ES	
				Cool < 10C Na2S2O3 (Micro Only)	
				A	Cool <= 6C
				B	H2SO4 pH<2
				C	None Required
				D	NaOH pH>10
				E	HNO3 pH<2
				F	HCL pH<2
				G	H3PO4 pH<2
				H	Cool <= 6C Na2S2O3
				I	
				Comments/Notes	
Date	Time	Sample Identification		Required Analysis / Preservative	
5/24/18 0342		W31-A		DNF RM 4	
0343		W32-A		DNF RM 4	
0344		W33-A		DNF RM 3	
0345		W34-A		DNF RM 3	
0346		W35-A		DNF RM 2	
0347		W36-A		DNF RM 2	
0348		W37-A		DNF RM 1	
0349		W38-A		DN RM 1	
0349		W39-A		F (near RM 2)	
0357		W40-A		DN Media Center	
Client Remarks/Comments					
Sampled by (Name & Print) <i>J. Villa</i>					
Relinquished by: (SIGNATURE) <i>J. Villa</i>					
Date Time 5/24/18 10:47					
Received by: (SIGNATURE) <i>Hebo Aver</i>					
Date Time 5/24/18 15:00					
Relinquished by: (SIGNATURE) <i>Hebo Aver</i>					
Date Time 5/25/18					
Received by: (SIGNATURE) <i>J. Villa</i>					
Date Time 5/25/18					
Ice		Custody Seals		Lab Comments	
Y/N		Y/N			
Blank/Cooler Temp		N/A (TP)			

For Laboratory Use Only

Billing Information
1100 Spring Street 820Client Name/Address
*Karen Kilby*Project Description
D and C Riverbank ES

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

Project Manager/Contact
Karen Kilby
Project/Site Location (City/State)
Church Street ES

Project Manager Phone #
18000-18861 404-373-3844
Waypoint ANALYTICAL

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

Date	Time	Sample Identification	Number of Contaminants per Table II of 40 CFR Part 136.	Matrix (Refer to Key) (Grab or Composite)	Required Analysis / Preservative	Comments/Notes
5/24/18 0400	W41-A	DNF	1	H2O3Hb3	F near room 40	
0403	W42-A	DNF	1			
0404	W43-A	DNF	1			
0406	W44-A	DNF	1			
0407	W45-A	DNF	1			
0408	W46-A	DNF	1			
0409	W47-A	DNF	1			
0411	W48-A	DNF	1			
0414	W49-A	DNF	1			
0417	W50-A	DNF	1			

Date	Time	Sample Identification	Number of Contaminants per Table II of 40 CFR Part 136.	Matrix (Refer to Key) (Grab or Composite)	Required Analysis / Preservative	Comments/Notes
5/24/18 10:47	10:47	W51-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W52-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W53-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W54-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W55-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W56-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W57-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W58-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W59-A	1	H2O3Hb3	F near room 40	
5/24/18 11:00	11:00	W60-A	1	H2O3Hb3	F near room 40	

Ice	Custody seals	Lab Comments	Sampled by (Name - Print) <i>Jessica D. Jones</i>	Relinquished by: (Signature) <i>Jessica D. Jones</i>	Date Time Received by: (Signature) 5/24/18 10:47 <i>Melba Aver</i>	Date Time
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				5/24/18 10:47	5/24/18 10:47
Blank/Cooler Temp	N/A <i>TP</i>				5/24/18 15:00 <i>Melba Aver</i>	5/24/18 15:00
					5/25/18 <i>Melba Aver</i>	5/25/18

08:15

For Laboratory Use Only

Client Name/Address	Client Project Manager/Contact	Billing Information		For Laboratory Use Only	
		Project/Site Location (City/State)	Address	Date	Time
<i>Bill</i>	<i>Arlina Rilant</i>	1100 Spring Street	920	18-145-0260 23169 05-25-2018 11:32:24	
Project Description	Project/Site Location (City/State)				
	<i>Church Street ES</i>				
	<input type="checkbox"/> RUSH – Additional charges apply				
	<input type="checkbox"/> Special Detection Limit(s)				
	Date Results Needed				
Project Number	Project Manager Phone #	Project Manager Email	Purchase Order Number	Site/Facility ID #	
18000-18861	404-373-3844	<i>Kiley@glieseassociates.com</i>		<i>Church Street ES</i>	
Waypoint	ANALYTICAL	(Grab or Composite)	Cool < 10C Na2S2O3 (Micro Only)		
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)	Cool < = 6C		
		Number of Containers	H2SO4 pH<2		
			None Required		
			NaOH pH>10		
			HNO3 pH<2		
			HCL pH>2		
			H3PO4 pH>2		
			Cool < = 6C Na2S2O3		
			I		
		Required Analysis / Preservative	Comments/Notes		
5/24/18	0418	W51-A	DIN RM 52		
	0419	W52-A	DNF RM 51		
	0419.	W53-A.	DIN RM 51		
	0420	W54-A	DNF RM 50		
	0421	W55-A	DIN RM 50		
	0422	W56-A	DNF RM 49		
	0423	W57-A	DIN RM 49		
	0424	W58-A	DNF RM 48		
	0425	W59-A	DIN RM 48		
	0425	W60-A	DNF RM 47		
		For Laboratory Use Only	Client Remarks/Comments		
Ice	Custody Seals	Lab Comments	Sampled by (Name - Print)		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<i>Arlina Rilant</i>	Date	Time
			Relinquished by: (SIGNATURE)	Received by: (SIGNATURE)	
			<i>Jeanne</i>	<i>Hugo Anor</i>	5/24/18 10:47
Blank/Cooler Temp	TP		Date	Time	Date
N/A			5/24/18 15:00	Received by: (SIGNATURE)	5/24/18 15:00
			<i>John Doe</i>	<i>Fred G X</i>	Date
					Time
					08:15

For Laboratory Use Only

Client Name/Address	Client Project Manager/Contact	Billing Information		For Laboratory Use Only	
		Project Number	Project Manager Phone #	Project Manager Email	Purchase Order Number
<i>Bill</i>	<i>Katrina Riley</i>	1100 Spring St	820	<i>Church Street ES</i>	
Project Description	Project/Site Location (City/State)	<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed			
<i>Bob and Gia Rivendale Inc</i>	<i>Church Street ES</i>	M GLE Associates CCPS: Church Street ES Owner			
18000-18961	404 373-3844	<i>katrina@gleassociates.com</i>	200.8 (U)	200.8 (B)	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400	Number of Containers	(Grab or) Composite	Matrix (Refer to Key)	Required Analysis / Preservative	Comments/Notes
	Unless noted, all containers per Table II of 40 CFR Part 136.				
Date	Time	Sample Identification			
5/24/14	0436	W61-A	Dil 1 HNO ₃ HNO ₃	DNF RM 47	
	0438	W62-A		DNF RM 45	
	0439	W63-A		DN 845	
	0429	W64-A		DNF RM 46	
	0430	W65-A		DN RM 46	
	0430	W66-A		F Near window 43°	
	0431	W67-A		F (left) near window 43.2°	
	0439	W68-A		F (right) admin office	
	0440	W69-A		F near admin office	
	0445	W70-A	V V V V	Fin cafeteria	
				ICE kitchen	
					Client Remarks/Comments
				<i>Katrina Riley</i>	Sampled by (Name - Print)
				<i>Katrina Riley</i>	Relinquished by: (SIGNATURE)
				<i>Katrina Riley</i>	5/24/14 10:47
				<i>Katrina Riley</i>	Date Time Received by: (SIGNATURE)
				<i>Katrina Riley</i>	5/24/14 10:47
				<i>Katrina Riley</i>	Date Time Received by: (SIGNATURE)
				<i>Katrina Riley</i>	5/24/14 15:00
				<i>Katrina Riley</i>	Date Time Received by: (SIGNATURE)
				<i>J. Phillips</i>	5/25/14 08:15
For Laboratory Use Only					
Ice	Custody Seals	Lab Comments			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Blank/Cooler Temp	<i>T</i>				
N/A	<i>T</i>				

Client Name/Address		Client Project Manager/Contact		Billing Information		For Laboratory Use Only		
716		Katrina Riley		1100 Spring Street 820 Atlanta, GA		18-145-0260 23169 05-25-2018 11:32:24		
Project Description		Project/Site Location (City/State)				dwater d O-Oil		
Dp and Cu		Church Street ES Riverdale Ga						
Project Number		Project Manager Phone #		Purchase Order Number		Site/Facility ID #		
18000-18861		404-373-3844		Kiley@missouriits.com		Church Street ES		
Waypoint		ANALYTICAL		(g)rab or (C)omposite		Comments/Notes		
		2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Matrix (Refer to Key)				
Project Number		Number of Containers		Required Analysis / Preservative				
51241		Unless noted, all containers per Table II of 40 CFR Part 136.		DW 1				
Date	Time	Sample Identification						
5/24/18	04446	W71-A						
	0447	W72-A						
	0449	W73-A						
	0451	W74-A						
	0452	W75-A						
	0453	W76-A						
	0500	W77-A						
		W78-A						
		W79-A						
		W80-A						
Sampled by (Name - Print)								
Katrina Riley								
Relinquished by: (SIGNATURE) Janice J. Riley								
Received by: (SIGNATURE) Hector Acevedo								
Date: 5/24/18 Time: 10:47								
Date: 5/24/18 Time: 15:00								
Received by: (SIGNATURE) Hector Acevedo								
Date: 5/25/18 Time: 15:00								
Received by: (SIGNATURE) Hector Acevedo								
Date: 5/25/18 Time: 08:15								
Ice		Custody Seals	Lab Comments		For Laboratory Use Only			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Y/N						
Blank/Cooler Temp								
N/A (TP)								

7/3/2018

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

Ref: Analytical Testing
Lab Report Number: 18-178-9340
Client Project Description: CCPS: Church Street ES
Riverdale, GA
Project # 18000 - 18861

Dear Ms. Katrina Riley:

Waypoint Analytical, Inc. received sample(s) on 6/27/2018 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	





2790 Whitten Road, Memphis, TN 38133
Main 901.213.2400 ° Fax 901.213.2440
www.waypointanalytical.com

Sample Summary Table

Report Number: 18-178-9340

Client Project Description: CCPS: Church Street ES
Riverdale, GA
Project # 18000 - 18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
92567	W-1-B	Aqueous	06/26/2018 06:23	06/27/2018



2790 Whitten Road, Memphis, TN 38133

Main 901.213.2400 ° Fax 901.213.2440

www.waypointanalytical.com

Summary of Detected Analytes

Project: CCPS: Church Street ES

Report Number: 18-178-9340

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-1-B	L 92567	EPA-200.8	Lead	8.93	µg/L	0.500	06/29/2018 19:35	



23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW²Suite 820

Suite 820

Atlanta , GA 30309

Project CCPS: Church Street ES
Information : Riverdale, GA
Project # 18000 - 18861

2790 Whitten Road, Memphis, TN 38133

Main 901.213.2400 ° Fax 901.213.2440

www.waypointanalytical.com

Revised Report Date : 07/03/2018

Received : 6/27/2018

Report Number : **18-178-9340**

REPORT OF ANALYSIS

Lab No : **92567**

Matrix: **Aqueous**

Sample ID : **W-1-B**

Sampled: **6/26/2018 6:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Lead	8.93	µg/L	0.500	1	06/29/18 19:35	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Church Street ES
Report No: 18-178-9340

QC Prep:	L388459	QC Analytical Batch(es):	L388643
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L388459	Matrix: AQU
-------------------	-------------	-------------

Associated Lab Samples: 92567

Parameter	Units	Blank Result	MQL	Analyzed
Lead	µg/L	< 0.500	0.500	06/29/18 18:49

Laboratory Control Sample	LCS-L388459
---------------------------	-------------

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Lead	µg/L	50.3	52.3	104	85-115

Matrix Spike & Matrix Spike Duplicate	L 92567-MS-L388459	L 92567-MSD-L388459
---------------------------------------	--------------------	---------------------

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Lead	µg/L	8.93	50.3	50.3	61.3	60.6	104	103	70-130	1.1	20.0

Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-178-0340**

Shipping Method

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

Shipping container/cooler uncompromised? Yes No

Number of coolers received

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.

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:

Client Name/Address <i>GLE</i>		Client Project Manager/Contact <i>Katrina Riley</i>	Billing Information 1100 Spring St 820 Atlanta, GA	For Laboratory Use Only																																																			
Project Description <i>Pb</i>		Project/Site Location (City/State) Church Street ES Riverdale, GA	<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) Date Results Needed			18-178-0340 23169 06-27-2018 15:28:53																																																	
Project Number 18000-18861		Project Manager Phone # 404-373-3844	Project Manager Email <i>Kriley@gleassociates.com</i>	Purchase Order Number		Site/Facility ID # <i>Church Street ES</i>																																																	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 40 CFR Part 136.	Number of Containers <i>Pb 200.8</i>	(G)rab or (C)omposite			A Cool < 10°C Na2S2O3 (Micro Only) B Cool < 6°C 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 < 6°C NA2S2O3																																																
Date	Time	Sample Identification <i>W1-B</i>	Required Analysis / Preservative <i>2W 1% HNO3</i>				Comments/Notes <i>CR 10 Drive</i>																																																
<table border="1"> <thead> <tr> <th colspan="2">For Laboratory Use Only</th> <th colspan="2">Sampled by (Name - Print)</th> <th colspan="4">Client Remarks/Comments</th> </tr> </thead> <tbody> <tr> <td>Ice <i>Y N</i></td> <td>Custody Seals <i>Y N</i></td> <td colspan="2"><i>Katrina Riley</i></td> <td colspan="4"> Relinquished by: (SIGNATURE) <i>Katrina Riley</i> Received by: (SIGNATURE) <i>Hugo Anoz</i> Date Time 06/26/18 9:32 </td> </tr> <tr> <td colspan="2">Blank/Cooler Temp <i>N/A</i></td> <td colspan="2"></td> <td colspan="4"> Relinquished by: (SIGNATURE) <i>Hugo Anoz</i> Date Time 06/26/18 15:00 </td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="4"> Relinquished by: (SIGNATURE) <i>Hugo Anoz</i> Date Time 06/26/18 15:00 </td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="4"> Received by: (SIGNATURE) <i>Fred X</i> Date Time 06/25/18 15:00 </td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="4"> Received by: (SIGNATURE) <i>M. Phillips</i> Date Time 06/27/18 08:30 </td> </tr> </tbody> </table>								For Laboratory Use Only		Sampled by (Name - Print)		Client Remarks/Comments				Ice <i>Y N</i>	Custody Seals <i>Y N</i>	<i>Katrina Riley</i>		Relinquished by: (SIGNATURE) <i>Katrina Riley</i> Received by: (SIGNATURE) <i>Hugo Anoz</i> Date Time 06/26/18 9:32				Blank/Cooler Temp <i>N/A</i>				Relinquished by: (SIGNATURE) <i>Hugo Anoz</i> Date Time 06/26/18 15:00								Relinquished by: (SIGNATURE) <i>Hugo Anoz</i> Date Time 06/26/18 15:00								Received by: (SIGNATURE) <i>Fred X</i> Date Time 06/25/18 15:00								Received by: (SIGNATURE) <i>M. Phillips</i> Date Time 06/27/18 08:30			
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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.

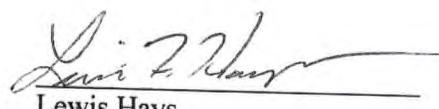
1. Copies of the most current on-site and accepted corrective actions
2. Copies of the scope of accreditation listing analytes

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

