LIMITED LEAD AND COPPER IN DRINKING WATER SAMPLING

North Clayton High School CCPS No. 2052 1525 Norman Drive Atlanta, GA 30349

GLE Project No.: 18000-18861

Prepared for:

Clayton County Public Schools 1058 Fifth Avenue Jonesboro, Georgia 30236

December 2018

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 North Clayton High School. The purpose of the contracted project was to collect and test water samples taken from CCPS drinking, cooking, and nursing water outlets to identify the presence of lead and copper in the water of CCPS schools and administrative/support buildings. Outlets not used for drinking, such as restroom faucets, maintenance areas, and science labs were excluded from this scope of work. The testing was generally performed in accordance with the Environmental Protection Agency (EPA)'s 3Ts for Reducing Lead in Drinking Water in Schools Technical Guidance Document (revised October 2006).

On October 8, 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 North Clayton High School located at 1525 Norman Drive in Atlanta, Georgia. According to the Client's representative, North Clayton High School was originally constructed in 1967, with major renovations or additions in 1976, 1982, 2004, 2011, 2012 and 2013. It is our understanding that no previous water testing has been conducted at North Clayton High School.

2.0 INVENTORY AND SAMPLING PLANS

Prior to the initial sampling event, on February 28, 2018, GLE mobilized to the site to inventory the existing outlets at the facility to devise a sampling plan. Further, GLE submitted a Plumbing Profile to CCPS to complete prior to sampling. Based on the results of GLE's inventory and CCPS's plumbing profile, a sampling plan was created and provided to CCPS. A copy of the Sampling Plan with the sample number identifying sample areas is included in **Appendix C**.

3.0 LEAD AND COPPER IN DRINKING WATER SAMPLING PROCEDURES

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

GLE assumed that the water supply lines and outlets in the assessed building were operating properly at the time of sampling. One representative water sample for lead and copper analysis was collected from each outlet identified in the sampling plan utilizing sterile, 250 milliliter (mL) sampling bottles preserved with nitric acid (HNO₃). The sample was collected immediately after activating the water fountain or outlet, described in this report as "first draw".

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

4.0 LEAD AND COPPER IN DRINKING WATER SAMPLING FINDINGS

A total of (45) water samples were collected for analysis of lead and copper content, comprised of one, water sample (first draw) from each of 43 Client-designated water fountains or outlets at the above-referenced school. The sample ID consisted of "W" for water, sample number, followed by A for first draw followed by B for follow up first draw sampling subsequent to repair or replacement of parts associated with the outlet. **Outlets identified in art/counselors office (5 sinks), room 120 (2 metal sinks), a sink within the admin office, room 341 (4 sinks), and an ice machine near P.E. 309 were not flushed/ inoperable during the initial sampling event.** A summary of the analytical results for the lead and copper in drinking water sampling follows in **Table 4.1 – Summary of Lead and Copper in Drinking Water Sampling Results.** The reporting limit for the lead sample analysis was 0.500 micrograms per liter (μ g/L) or parts per billion (ppb) and for copper sample analysis was 0.500 micrograms per liter (μ 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 µg/L or ppb and if the copper level exceeds 1,300 µg/L or ppb. Public water supply (PWS) systems are subject to an action level (AL) of 15 µg/L or ppb of lead in water for treatment (specifically, if more than 10% of samples at residences tested exceed 15 ppb, system-wide corrosion control treatment may be necessary). For the purposes of this sampling event CCPS is taking corrective action for samples reported at or greater than 15 µg/L or ppb for lead and 1,300 µg/L or ppb for copper.

SAMPLE NUMBER		TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)		FIRST DRAV SAMPLE RES	
W	'1A	DRINKING WATER FOUNTAIN NEAR OFFICE 100.2	0.969		99	.0
W	'2A	CAFETERIA DRINKING WATER FOUNTAIN	B	RL	92	.9
W	73A	KITCHEN N WALL (RIGHT)	0.6	500	12	2
W	′4A	KITCHEN N WALL (MIDDLE)	0.0	579	12	5
W	′5A	KITCHEN S WALL (LEFT)	0.9	984	19	1
W	'6A	KITCHEN N WALL (LEFT)	BRL		10	7
W	7A	KITCHEN S WALL (RIGHT) BRL		80.2		
W8A KITCHEN STEAMER NEAR S WALL BRL		BRL 139		9		
W	'9A	KITCHEN STEAMER NEAR N WALL	BRL		168	
W10A	W10B	KITCHEN POT FILLER NEAR N WALL	38.4	12.3	111	109
W	11A	KITCHEN ICE MACHINE	0.714		13.0	
W	12A	CLASSROOM 120 DRINKING WATER (LEFT)	B	RL	104	
W	13A	CLASSROOM 120 DRINKING WATER (MIDDLE)	BRL		112	
W	14A	CLASSROOM 120 DRINKING WATER (RIGHT)	BRL		13	4
W	15A	HALLWAY NEAR ROOM 123 DRINKING WATER FOUNTAIN	B	RL	144	

SAMPLE NUMBER		TEST LOCATION		raw- Lead esults (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)	
W16A	W16B	HALLWAY NEAR ROOM 312 DRINKING WATER FOUNTAIN	11.6	0.564	1490	116
W17A		SUITE 317 DRINKING WATER	-	1.27	85	.0
W1	8A	HALLWAY NEAR ROOM 334 DRINKING WATER FOUNTAIN (RIGHT)	I	BRL	39	.3
W 1	9A	HALLWAY NEAR ROOM 334 DRINKING WATER FOUNTAIN (LEFT)	I	BRL	27	.0
W2	0A	ROOM 337 DRINKING WATER	1.43		55.4	
W21A		HALLWAY NEAR ROOM 340 DRINKING WATER FOUNTAIN	0.857		96.5	
W22A		HALLWAY NEAR ROOM 344 DRINKING WATER FOUNTAIN	0.503		146	
W23A		HALLWAY NEAR ROOM 225 DRINKING WATER FOUNTAIN	BRL		103	
W2	4A	HALLWAY NEAR ROOM 231 DRINKING WATER FOUNTAIN	BRL		69	.4
W2	5A	HALLWAY NEAR ROOM 235 DRINKING WATER FOUNTAIN	I	BRL	59.0	
W2	6A	HALLWAY NEAR ROOM 242 DRINKING WATER FOUNTAIN	I	BRL	13	8
W27A		HALLWAY NEAR ROOM 252 DRINKING WATER FOUNTAIN (RIGHT)	BRL		63.6	
W28A		HALLWAY NEAR ROOM 252 DRINKING WATER FOUNTAIN (LEFT)	BRL		62.9	
W29A		HALL NEAR ROOM150 DRINKING WATER FOUNTAIN (RIGHT)	BRL		66.5	

SAMPLE NUMBER	TEST LOCATION	First Draw- Lead Sample Results (µg/L)	First Draw- Copper Sample Results (µg/L)
W30A	HALL NEAR ROOM 150 DRINKING WATER FOUNTAIN (LEFT)	BRL	73.1
W31A	HALLWAY NEAR ROOM 142 DRINKING WATER FOUNTAIN	1.56	286
W32A	HALLWAY NEAR ROOM 131 DRINKING WATER FOUNTAIN	BRL	84.3
W33A	MEDIA CENTER DRINKING WATER	0.739	75.0
W34A	OLD GYM NEAR WOMENS RESTROOM DRINKING WATER FOUNTAIN	BRL	67.4
W35A	OLD GYM NEAR CONCESSION STAND DRINKING WATER FOUNTAIN	BRL	73.5
W36A	OLD GYM CONCESSION STAND DRINKING WATER	1.90	151
W37A	HALLWAY NEAR ROOM 503 DRINKING WATER FOUNTAIN	BRL	64.5
W38A	HALLWAY NEAR ROOM 501 DRINKING WATER FOUNTAIN	BRL	241
W39A	NEW GYM DRINKING WATER FOUNTAIN (RIGHT)	BRL	55.8
W40A	NEW GYM DRINKING WATER FOUNTAIN (MIDDLE)	BRL	60.4
W41A	NEW GYM DRINKING WATER FOUNTAIN (LEFT)	BRL	53.1
W42A	HALLWAY NEAR BANDROOM DRINKING WATER FOUNTAIN	BRL	81.7

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W43A	HALLWAY ADJACENT ADMIN OFFICE DRINKING WATER FOUNTAIN	BRL	79.5

BRL – Below Reporting Limits

 $\mu g/L - micrograms per liter$

Results in **bold** indicate levels at or above the EPA PWS Action Level of 15 μ g/L for Lead in Drinking Water *Properly flushed and resampled during the follow-up testing event.

5.0 CONCLUSIONS ANDS RECOMMENDATIONS

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

- 1. A total of 43 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 North Clayton High School. During the initial assessment, 43 first draw water samples were submitted to the laboratory for analysis. Two (2) subsequent first draw samples were collected on November 14, 2018 of the pot filler within the kitchen and drinking water fountain near Room 312 due to previous elevated lead and copper results.
- 2. Fourteen (14) of the 43 initial first draw water samples analyzed for lead indicated detectable levels of lead. One (1) of the 14 initial first draw water samples with detectable levels of lead was **greater** than the EPA PWS AL of 15μg/L. This outlet, the drinking water pot filler within the kitchen near the north wall was removed from service for drinking water until follow-up sampling was conducted. A subsequent first draw water sample was collected from the drinking water pot filler within the kitchen was on November 14, 2018 after the client replaced the pot filler. A detectable level of lead was identified in the follow up sample collected from the pot filler, but was less than the EPA PWS AL of 15μg/L. **Outlets identified in art/counselors office** (5 sinks), room 120 (2 metal sinks), a sink within the admin office, room 341 (4 sinks), and an ice machine near P.E. 309 were not flushed/inoperable during the initial sampling event. If determined to be used for drinking, cooking, and/or nursing, these outlets will need to be sampled.
- 3. 43 of the 43 first draw initial water samples indicated detectable levels of copper. One (1) of the 43 initial first draw water samples with detectable levels of copper was **greater** than 1300µg/L. This outlet, the drinking water fountain near Room 312 was removed from service for drinking water until follow-up sampling was conducted. A subsequent first draw water sample was collected from the drinking water fountain near Room 312 on November 14, 2018 after the client replaced the drinking water fountain. A detectable level of copper was identified in the follow up sample collected from the fountain, but was less than the EPA PWS AL of 1300µg/L.

6.0 LIMITATIONS

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

APPENDIX A Laboratory Analytical Results and Chains of Custody



10/16/2018

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

Ref: **Analytical Testing**

Lab Report Number: 18-283-0224

Client Project Description: CCPS: North Clayton High School

Project # 18000-18861

Dear Ms. Katrina Riley:

Waypoint Analytical, LLC. received sample(s) on 10/10/2018 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 asreceived 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 Mississippi

California Tennessee #TN02027

#04015 #2904

VA NFI AP #460181 #415 EPA #TN00012

#T104704180-11-6 Texas Oklahoma #9311 Kentucky UST #41

Arkansas #88-0650 Virginia #00106





Sample Summary Table

Report Number: 18-283-0224

Client Project Description: CCPS: North Clayton High School

Project # 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98409	W1-A	Aqueous	10/08/2018 10:15	10/10/2018
98410	W2-A	Aqueous	10/08/2018 10:17	10/10/2018
98411	W3-A	Aqueous	10/08/2018 10:19	10/10/2018
98412	W4-A	Aqueous	10/08/2018 10:19	10/10/2018
98413	W5-A	Aqueous	10/08/2018 10:22	10/10/2018
98414	W6-A	Aqueous	10/08/2018 10:22	10/10/2018
98415	W7-A	Aqueous	10/08/2018 10:23	10/10/2018
98416	W8-A	Aqueous	10/08/2018 10:25	10/10/2018
98417	W9-A	Aqueous	10/08/2018 10:26	10/10/2018
98418	W10-A	Aqueous	10/08/2018 10:28	10/10/2018
98419	W11-A	Aqueous	10/08/2018 10:30	10/10/2018
98420	W12-A	Aqueous	10/08/2018 10:37	10/10/2018
98421	W13-A	Aqueous	10/08/2018 10:37	10/10/2018
98422	W14-A	Aqueous	10/08/2018 10:38	10/10/2018
98423	W15-A	Aqueous	10/08/2018 10:40	10/10/2018
98424	W16-A	Aqueous	10/08/2018 10:48	10/10/2018
98425	W17-A	Aqueous	10/08/2018 10:51	10/10/2018
98426	W18-A	Aqueous	10/08/2018 10:53	10/10/2018
98427	W19-A	Aqueous	10/08/2018 10:54	10/10/2018
98428	W20-A	Aqueous	10/08/2018 10:55	10/10/2018
98429	W21-A	Aqueous	10/08/2018 10:59	10/10/2018
98430	W22-A	Aqueous	10/08/2018 11:01	10/10/2018
98431	W23-A	Aqueous	10/08/2018 11:08	10/10/2018
98432	W24-A	Aqueous	10/08/2018 11:09	10/10/2018
98433	W25-A	Aqueous	10/08/2018 11:10	10/10/2018
98434	W26-A	Aqueous	10/08/2018 11:11	10/10/2018



Sample Summary Table

Report Number: 18-283-0224

Client Project Description: CCPS: North Clayton High School

Project # 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98435	W27-A	Aqueous	10/08/2018 11:14	10/10/2018
98436	W28-A	Aqueous	10/08/2018 11:15	10/10/2018
98437	W29-A	Aqueous	10/08/2018 11:18	10/10/2018
98438	W30-A	Aqueous	10/08/2018 11:19	10/10/2018
98439	W31-A	Aqueous	10/08/2018 11:21	10/10/2018
98440	W32-A	Aqueous	10/08/2018 11:23	10/10/2018
98441	W33-A	Aqueous	10/08/2018 11:24	10/10/2018
98442	W34-A	Aqueous	10/08/2018 11:28	10/10/2018
98443	W35-A	Aqueous	10/08/2018 11:29	10/10/2018
98444	W36-A	Aqueous	10/08/2018 11:30	10/10/2018
98445	W37-A	Aqueous	10/08/2018 11:41	10/10/2018
98446	W38-A	Aqueous	10/08/2018 11:45	10/10/2018
98447	W39-A	Aqueous	10/08/2018 11:50	10/10/2018
98448	W40-A	Aqueous	10/08/2018 11:50	10/10/2018
98449	W41-A	Aqueous	10/08/2018 11:50	10/10/2018
98450	W42-A	Aqueous	10/08/2018 11:56	10/10/2018
98451	W43-A	Aqueous	10/08/2018 12:02	10/10/2018



Summary of Detected Analytes

Project: CCPS: North Clayton High School

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
W1-A	L 98409					
EPA-200.8	Copper	99.0	μg/L	0.500	10/11/2018 20:18	
EPA-200.8	Lead	0.969	μg/L	0.500	10/11/2018 20:18	
EPA-200.8	Copper	99.0	μg/L	0.500	10/11/2018 20:18	
EPA-200.8	Lead	0.969	μg/L	0.500	10/11/2018 20:18	
W2-A	L 98410					
EPA-200.8	Copper	92.9	μg/L	0.500	10/11/2018 20:19	
EPA-200.8	Copper	92.9	μg/L	0.500	10/11/2018 20:19	
W3-A	L 98411					
EPA-200.8	Copper	122	μg/L	0.500	10/11/2018 20:25	
EPA-200.8	Lead	0.600	μg/L	0.500	10/11/2018 20:25	
EPA-200.8	Copper	122	μg/L	0.500	10/11/2018 20:25	
EPA-200.8	Lead	0.600	μg/L	0.500	10/11/2018 20:25	
W4-A	L 98412					
EPA-200.8	Copper	125	μg/L	0.500	10/11/2018 20:26	
EPA-200.8	Lead	0.679	μg/L	0.500	10/11/2018 20:26	
EPA-200.8	Copper	125	μg/L	0.500	10/11/2018 20:26	
EPA-200.8	Lead	0.679	μg/L	0.500	10/11/2018 20:26	
W5-A	L 98413					
EPA-200.8	Copper	191	μg/L	0.500	10/11/2018 20:27	
EPA-200.8	Lead	0.984	μg/L	0.500	10/11/2018 20:27	
EPA-200.8	Copper	191	μg/L	0.500	10/11/2018 20:27	
EPA-200.8	Lead	0.984	μg/L	0.500	10/11/2018 20:27	
W6-A	L 98414					
EPA-200.8	Copper	107	μg/L	0.500	10/11/2018 20:29	
EPA-200.8	Copper	107	μg/L	0.500	10/11/2018 20:29	
W7-A	L 98415					
EPA-200.8	Copper	80.2	μg/L	0.500	10/11/2018 20:30	
EPA-200.8	Copper	80.2	μg/L	0.500	10/11/2018 20:30	
W8-A	L 98416					
EPA-200.8	Copper	139	μg/L	0.500	10/11/2018 20:31	
EPA-200.8	Copper	139	μg/L	0.500	10/11/2018 20:31	
W9-A	L 98417					
EPA-200.8	Copper	168	μg/L	0.500	10/11/2018 20:33	
EPA-200.8	Copper	168	μg/L	0.500	10/11/2018 20:33	



Summary of Detected Analytes

Project: CCPS: North Clayton High School

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
W10-A	L 98418					
EPA-200.8	Copper	111	μg/L	0.500	10/11/2018 20:34	
EPA-200.8	Lead	38.4	μg/L	0.500	10/11/2018 20:34	
EPA-200.8	Copper	111	μg/L	0.500	10/11/2018 20:34	
EPA-200.8	Lead	38.4	μg/L	0.500	10/11/2018 20:34	
W11-A	L 98419					
EPA-200.8	Copper	13.0	μg/L	0.500	10/11/2018 20:35	
EPA-200.8	Lead	0.714	μg/L	0.500	10/11/2018 20:35	
EPA-200.8	Copper	13.0	μg/L	0.500	10/11/2018 20:35	
EPA-200.8	Lead	0.714	μg/L	0.500	10/11/2018 20:35	
W12-A	L 98420					
EPA-200.8	Copper	104	μg/L	0.500	10/11/2018 20:37	
EPA-200.8	Copper	104	μg/L	0.500	10/11/2018 20:37	
W13-A	L 98421					
EPA-200.8	Copper	112	μg/L	0.500	10/11/2018 20:42	
EPA-200.8	Copper	112	μg/L	0.500	10/11/2018 20:42	
W14-A	L 98422					
EPA-200.8	Copper	134	μg/L	0.500	10/11/2018 20:43	
EPA-200.8	Copper	134	μg/L	0.500	10/11/2018 20:43	
W15-A	L 98423					
EPA-200.8	Copper	144	μg/L	0.500	10/11/2018 20:45	
EPA-200.8	Copper	144	μg/L	0.500	10/11/2018 20:45	
W16-A	L 98424					
EPA-200.8	Copper	1490	μg/L	2.50	10/12/2018 19:40	
EPA-200.8	Lead	11.6	μg/L	0.500	10/11/2018 20:46	
EPA-200.8	Copper	1490	μg/L	2.50	10/12/2018 19:40	
EPA-200.8	Lead	11.6	μg/L	0.500	10/11/2018 20:46	
W17-A	L 98425					
EPA-200.8	Copper	85.0	μg/L	0.500	10/11/2018 20:49	
EPA-200.8	Lead	1.27	μg/L	0.500	10/11/2018 20:49	
EPA-200.8	Copper	85.0	μg/L	0.500	10/11/2018 20:49	
EPA-200.8	Lead	1.27	μg/L	0.500	10/11/2018 20:49	
W18-A	L 98426					
EPA-200.8	Copper	39.3	μg/L	0.500	10/11/2018 20:50	
EPA-200.8	Copper	39.3	μg/L	0.500	10/11/2018 20:50	



Summary of Detected Analytes

Project: CCPS: North Clayton High School

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
W19-A	L 98427					
EPA-200.8	Copper	27.0	μg/L	0.500	10/11/2018 20:52	
EPA-200.8	Copper	27.0	μg/L	0.500	10/11/2018 20:52	
W20-A	L 98428					
EPA-200.8	Copper	55.4	μg/L	0.500	10/11/2018 20:53	
EPA-200.8	Lead	1.43	μg/L	0.500	10/11/2018 20:53	
EPA-200.8	Copper	55.4	μg/L	0.500	10/11/2018 20:53	
EPA-200.8	Lead	1.43	μg/L	0.500	10/11/2018 20:53	
W21-A	L 98429					
EPA-200.8	Copper	96.5	μg/L	0.500	10/11/2018 21:08	
EPA-200.8	Lead	0.857	μg/L	0.500	10/11/2018 21:08	
EPA-200.8	Copper	96.5	μg/L	0.500	10/11/2018 21:08	
EPA-200.8	Lead	0.857	μg/L	0.500	10/11/2018 21:08	
W22-A	L 98430					
EPA-200.8	Copper	146	μg/L	0.500	10/11/2018 21:09	
EPA-200.8	Lead	0.503	μg/L	0.500	10/11/2018 21:09	
EPA-200.8	Copper	146	μg/L	0.500	10/11/2018 21:09	
EPA-200.8	Lead	0.503	μg/L	0.500	10/11/2018 21:09	
W23-A	L 98431					
EPA-200.8	Copper	103	μg/L	0.500	10/11/2018 21:11	
EPA-200.8	Copper	103	μg/L	0.500	10/11/2018 21:11	
N24-A	L 98432					
EPA-200.8	Copper	69.4	μg/L	0.500	10/11/2018 21:12	
EPA-200.8	Copper	69.4	μg/L	0.500	10/11/2018 21:12	
W25-A	L 98433					
EPA-200.8	Copper	59.0	μg/L	0.500	10/11/2018 21:13	
EPA-200.8	Copper	59.0	μg/L	0.500	10/11/2018 21:13	
W26-A	L 98434					
EPA-200.8	Copper	138	μg/L	0.500	10/11/2018 21:15	
EPA-200.8	Copper	138	μg/L	0.500	10/11/2018 21:15	
W27-A	L 98435					
EPA-200.8	Copper	63.6	μg/L	0.500	10/11/2018 21:20	
EPA-200.8	Copper	63.6	μg/L	0.500	10/11/2018 21:20	
W28-A	L 98436					
EPA-200.8	Copper	62.9	μg/L	0.500	10/11/2018 21:21	



Summary of Detected Analytes

Project: CCPS: North Clayton High School

Client Sample ID	Lab Sample ID	B F-	11	D	A	0 !!"
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
W28-A	L 98436					
EPA-200.8	Copper	62.9	μg/L	0.500	10/11/2018 21:21	
W29-A	L 98437					
EPA-200.8	Copper	66.5	μg/L	0.500	10/11/2018 21:23	
EPA-200.8	Copper	66.5	μg/L	0.500	10/11/2018 21:23	
W30-A	L 98438					
EPA-200.8	Copper	73.1	μg/L	0.500	10/11/2018 21:24	
EPA-200.8	Copper	73.1	μg/L	0.500	10/11/2018 21:24	
W31-A	L 98439					
EPA-200.8	Copper	286	μg/L	0.500	10/11/2018 21:25	
EPA-200.8	Lead	1.56	μg/L	0.500	10/11/2018 21:25	
EPA-200.8	Copper	286	μg/L	0.500	10/11/2018 21:25	
EPA-200.8	Lead	1.56	μg/L	0.500	10/11/2018 21:25	
W32-A	L 98440					
EPA-200.8	Copper	84.3	μg/L	0.500	10/11/2018 21:28	
EPA-200.8	Copper	84.3	μg/L	0.500	10/11/2018 21:28	
W33-A	L 98441					
EPA-200.8	Copper	75.0	μg/L	0.500	10/11/2018 21:30	
EPA-200.8	Lead	0.739	μg/L	0.500	10/11/2018 21:30	
EPA-200.8	Copper	75.0	μg/L	0.500	10/11/2018 21:30	
EPA-200.8	Lead	0.739	μg/L	0.500	10/11/2018 21:30	
W34-A	L 98442					
EPA-200.8	Copper	67.4	μg/L	0.500	10/11/2018 21:31	
EPA-200.8	Copper	67.4	μg/L	0.500	10/11/2018 21:31	
W35-A	L 98443					
EPA-200.8	Copper	73.5	μg/L	0.500	10/11/2018 21:32	
EPA-200.8	Copper	73.5	μg/L	0.500	10/11/2018 21:32	
N36-A	L 98444					
EPA-200.8	Copper	151	μg/L	0.500	10/11/2018 21:34	
EPA-200.8	Lead	1.90	μg/L	0.500	10/11/2018 21:34	
EPA-200.8	Copper	151	μg/L	0.500	10/11/2018 21:34	
EPA-200.8	Lead	1.90	μg/L	0.500	10/11/2018 21:34	
W37-A	L 98445					
EPA-200.8	Copper	64.5	μg/L	0.500	10/11/2018 21:39	



Summary of Detected Analytes

Project: CCPS: North Clayton High School

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W37-A	L 98445					
EPA-200.8	Copper	64.5	μg/L	0.500	10/11/2018 21:39	
W38-A	L 98446					
EPA-200.8	Copper	241	μg/L	0.500	10/11/2018 21:40	
EPA-200.8	Copper	241	μg/L	0.500	10/11/2018 21:40	
W39-A	L 98447					
EPA-200.8	Copper	55.8	μg/L	0.500	10/11/2018 21:42	
EPA-200.8	Copper	55.8	μg/L	0.500	10/11/2018 21:42	
W40-A	L 98448					
EPA-200.8	Copper	60.4	μg/L	0.500	10/11/2018 21:43	
EPA-200.8	Copper	60.4	μg/L	0.500	10/11/2018 21:43	
W41-A	L 98449					
EPA-200.8	Copper	53.1	μg/L	0.500	10/11/2018 21:58	
EPA-200.8	Copper	53.1	μg/L	0.500	10/11/2018 21:58	
W42-A	L 98450					
EPA-200.8	Copper	81.7	μg/L	0.500	10/11/2018 21:59	
EPA-200.8	Copper	81.7	μg/L	0.500	10/11/2018 21:59	
W43-A	L 98451					
EPA-200.8	Copper	79.5	μg/L	0.500	10/11/2018 22:01	
EPA-200.8	Copper	79.5	μg/L	0.500	10/11/2018 22:01	



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98409 Matrix: Aqueous

Sample ID : W1-A Sampled: 10/8/2018 10:15

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	99.0	μg/L	0.500	1	10/11/18 20:18	BKN	EPA-200.8
Lead	0.969	μg/L	0.500	1	10/11/18 20:18	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98410 Matrix: Aqueous Sample ID : W2-A Sampled: 10/8/2018 10:17

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	92.9	μg/L	0.500	1	10/11/18 20:19	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:19	BKN	EPA-200.8



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98411 Matrix: Aqueous

Sample ID : W3-A Sampled: 10/8/2018 10:19

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	122	μg/L	0.500	1	10/11/18 20:25	BKN	EPA-200.8
Lead	0.600	μg/L	0.500	1	10/11/18 20:25	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98412 Matrix: Aqueous Sample ID: W4-A

Sampled: 10/8/2018 10:19

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Commen							
Copper	125	μg/L	0.500	1	10/11/18 20:26	BKN	EPA-200.8
Lead	0.679	μg/L	0.500	1	10/11/18 20:26	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Matrix: Aqueous

Sample ID: W5-A Sampled: 10/8/2018 10:22

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	191	μg/L	0.500	1	10/11/18 20:27	BKN	EPA-200.8
Lead	0.984	μg/L	0.500	1	10/11/18 20:27	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98414 Matrix: Aqueous

Sample ID: W6-A Sampled: 10/8/2018 10:22

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	107	μg/L	0.500	1	10/11/18 20:29	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:29	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98415 Matrix: Aqueous Sample ID : W7-A Sampled: 10/8/2018 10:23

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	80.2	μg/L	0.500	1	10/11/18 20:30	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:30	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98416 Matrix: Aqueous Sample ID: W8-A Sampled: 10/8/2018 10:25

Units MQL DF Test Results Date / Time By Analytical Method Analyzed

Copper μg/L 139 0.500 1 10/11/18 20:31 BKN EPA-200.8 Lead μg/L < 0.500 0.500 1 10/11/18 20:31 BKN EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98417 Matrix: Aqueous

Sample ID: W9-A Sampled: 10/8/2018 10:26

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	168	μg/L	0.500	1	10/11/18 20:33	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:33	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98418 Matrix: Aqueous Sample ID: W10-A Sampled: 10/8/2018 10:28

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	111	μg/L	0.500	1	10/11/18 20:34	BKN	EPA-200.8
Lead	38.4	μg/L	0.500	1	10/11/18 20:34	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98419 Matrix: Aqueous

Sample ID: W11-A Sampled: 10/8/2018 10:30

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	13.0	μg/L	0.500	1	10/11/18 20:35	BKN	EPA-200.8
Lead	0.714	μg/L	0.500	1	10/11/18 20:35	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98420 Matrix: Aqueous Sample ID: W12-A Sampled: 10/8/2018 10:37

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
_							
Copper	104	μg/L	0.500	1	10/11/18 20:37	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:37	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Copper

Lead

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

1 10/11/18 20:42 BKN

1 10/11/18 20:42 BKN

Report Date: 10/16/2018

Received: 10/10/2018

EPA-200.8

EPA-200.8

REPORT OF ANALYSIS Report Number: 18-283-0224

112

< 0.500

98421 Matrix: Aqueous Lab No: Sample ID: W13-A Sampled: 10/8/2018 10:37

μg/L

μg/L

Units MQL DF Test Results Date / Time By Analytical Method Analyzed

0.500

0.500

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



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

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Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98422 Matrix: Aqueous

Sample ID: W14-A Sampled: 10/8/2018 10:38

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	134	μg/L	0.500	1	10/11/18 20:43	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:43	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

> 98423 Matrix: Aqueous

Sample ID: W15-A Sampled: 10/8/2018 10:40

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	144	μg/L	0.500	1	10/11/18 20:45	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:45	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Lab No:

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Matrix: Aqueous

Sample ID: W16-A Sampled: 10/8/2018 10:48

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	1490	μg/L	2.50	5	10/12/18 19:40	BKN	EPA-200.8
Lead	11.6	μg/L	0.500	1	10/11/18 20:46	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Sample ID: W17-A

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Sampled: 10/8/2018 10:51

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98425 Matrix: Aqueous

Units MQL DF Test Results Date / Time By Analytical Method Analyzed

Copper μg/L 85.0 0.500 1 10/11/18 20:49 BKN EPA-200.8 Lead μg/L 0.500 1 10/11/18 20:49 BKN EPA-200.8 1.27

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98426 Matrix: Aqueous

Sample ID: W18-A Sampled: 10/8/2018 10:53

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Commun							
Copper	39.3	μg/L	0.500	1	10/11/18 20:50	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:50	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

Report Number: 18-283-0224 REPORT OF ANALYSIS

Lab No : 98427 Matrix: Aqueous

Sample ID: **W19-A** Sampled: **10/8/2018 10:54**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	27.0	μg/L	0.500	1	10/11/18 20:52	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 20:52	BKN	EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL



23169

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98428

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Lab No:

Atlanta, GA 30309

Sample ID: W20-A

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number : 18-283-0224

Matrix: Aqueous

Sampled: 10/8/2018 10:55

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	55.4	μg/L	0.500	1	10/11/18 20:53	BKN	EPA-200.8
Lead	1.43	μg/L	0.500	1	10/11/18 20:53	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98429 Matrix: Aqueous Sample ID: W21-A Sampled: 10/8/2018 10:59

Units MQL DF Test Results Date / Time By Analytical Method Analyzed Copper μg/L 96.5 0.500 1 10/11/18 21:08 BKN EPA-200.8 Lead μg/L 0.857 0.500 1 10/11/18 21:08 BKN EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98430 Matrix: Aqueous

Sample ID: W22-A Sampled: 10/8/2018 11:01

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	146	μg/L	0.500	1	10/11/18 21:09	BKN	EPA-200.8
Lead	0.503	μg/L	0.500	1	10/11/18 21:09	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98431 Matrix: Aqueous

Sample ID: W23-A Sampled: 10/8/2018 11:08

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Company							
Copper	103	μg/L	0.500	1	10/11/18 21:11	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:11	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

Report Number: 18-283-0224 REPORT OF ANALYSIS

Lab No : 98432 Matrix: Aqueous

Sample ID: **W24-A** Sampled: **10/8/2018 11:09**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	69.4	μg/L	0.500	1	10/11/18 21:12	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:12	BKN	EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL



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Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

Report Number: 18-283-0224 REPORT OF ANALYSIS

Lab No : 98433 Matrix: Aqueous

Sample ID: **W25-A** Sampled: **10/8/2018 11:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	59.0	μg/L	0.500	1	10/11/18 21:13	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:13	BKN	EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL



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Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98434 Matrix: Aqueous

Sample ID: W26-A Sampled: 10/8/2018 11:11

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	138	μg/L	0.500	1	10/11/18 21:15	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:15	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

GLE Associates Ms. Katrina Riley

1100 Spring St, NW2Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98435 Matrix: Aqueous Sample ID: W27-A Sampled: 10/8/2018 11:14

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	63.6	μg/L	0.500	1	10/11/18 21:20	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500		10/11/18 21:20		EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

GLE Associates
Ms. Katrina Riley

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98436

Suite 820

Lab No:

Atlanta, GA 30309

Sample ID: W28-A

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

Report Number : 18-283-0224 REPORT OF ANALYSIS

Matrix: **Aqueous**Sampled: **10/8/2018 11:15**

Units MQL DF Test Results Date / Time By Analytical Method Analyzed Copper μg/L 62.9 0.500 1 10/11/18 21:21 BKN EPA-200.8 Lead μg/L 0.500 1 10/11/18 21:21 BKN < 0.500 EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL



23169

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98437

Suite 820

Lab No:

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Matrix: Aqueous

Sample ID: W29-A Sampled: 10/8/2018 11:18

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Connec			0.500		10/11/10 21 22	DIAL	FD4 200 0
Copper	66.5	μg/L	0.500	1	10/11/18 21:23	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:23	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98438 Matrix: Aqueous

Sample ID: W30-A Sampled: 10/8/2018 11:19

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Conner	72.4	ug/l	0.500		10/11/10 21:24	DIZNI	EDA 200.0
Copper	73.1	μg/L	0.500	1	10/11/18 21:24	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:24	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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98439

Suite 820

Lab No:

Atlanta, GA 30309

Sample ID: W31-A

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

> Matrix: Aqueous Sampled: 10/8/2018 11:21

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	286	μg/L	0.500	1	10/11/18 21:25	BKN	EPA-200.8
Lead	1.56	μg/L	0.500	1	10/11/18 21:25	BKN	EPA-200.8



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

98440 Matrix: Aqueous Lab No: Sample ID: W32-A Sampled: 10/8/2018 11:23

Units MQL DF Test Results Date / Time By Analytical Method Analyzed Copper μg/L 84.3 0.500 1 10/11/18 21:28 BKN EPA-200.8 Lead μg/L 0.500 1 10/11/18 21:28 BKN < 0.500 EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

98441 Matrix: Aqueous Lab No: Sample ID: W33-A Sampled: 10/8/2018 11:24

Units MQL DF Test Results Date / Time By Analytical Method Analyzed Copper μg/L 75.0 0.500 1 10/11/18 21:30 BKN EPA-200.8 Lead μg/L 0.739 0.500 1 10/11/18 21:30 BKN EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

GLE Associates Ms. Katrina Riley

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98442 Matrix: Aqueous Sample ID: W34-A Sampled: 10/8/2018 11:28

Units MQL DF Test Results Date / Time By Analytical Method Analyzed Copper μg/L 67.4 0.500 1 10/11/18 21:31 BKN EPA-200.8 Lead μg/L 0.500 1 10/11/18 21:31 BKN EPA-200.8 < 0.500

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Report Number: 18-283-0224

Suite 820

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS

Lab No: 98443 Matrix: Aqueous

Sample ID: W35-A Sampled: 10/8/2018 11:29

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	73.5	μg/L	0.500	1	10/11/18 21:32	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:32	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

GLE Associates Ms. Katrina Riley

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98444

Suite 820

Lab No:

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Matrix: Aqueous

Sample ID: W36-A Sampled: 10/8/2018 11:30

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	151	μg/L	0.500	1	10/11/18 21:34	BKN	EPA-200.8
Lead	1.90	μg/L	0.500	1	10/11/18 21:34	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98445 Matrix: Aqueous

Sample ID: W37-A Sampled: 10/8/2018 11:41

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	64.5	μg/L	0.500	1	10/11/18 21:39	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:39	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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98446

Suite 820

Lab No:

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Matrix: Aqueous

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Sample ID: W38-A Sampled: 10/8/2018 11:45

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	241	μg/L	0.500	1	10/11/19 21:40	DVN	EPA-200.8
Сорреі	241	μ 9 / L	0.500	1	10/11/18 21:40	DKIN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:40	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

Report Number : 18-283-0224 REPORT OF ANALYSIS

Lab No : 98447 Matrix: Aqueous

Sample ID: **W39-A** Sampled: **10/8/2018 11:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	55.8	μg/L	0.500	1	10/11/18 21:42	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:42	BKN	EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL



23169

GLE Associates Ms. Katrina Riley

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Lab No:

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

98448 Matrix: Aqueous Sample ID: W40-A Sampled: 10/8/2018 11:50

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	60.4	μg/L	0.500	1	10/11/18 21:43	RKN	EPA-200.8
Lead	<0.500	μg/L	0.500		10/11/18 21:43		EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98449 Matrix: Aqueous

Sample ID: W41-A Sampled: 10/8/2018 11:50

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	53.1	μg/L	0.500	1	10/11/18 21:58	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:58	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



23169

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Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

Report Number: 18-283-0224 REPORT OF ANALYSIS

Lab No : 98450 Matrix: Aqueous

Sample ID: **W42-A** Sampled: **10/8/2018 11:56**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	81.7	μg/L	0.500	1	10/11/18 21:59	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 21:59	BKN	EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL



23169

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Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Project # 18000-18861

Andrea R. Brownfield Project manager

Report Date: 10/16/2018

Received: 10/10/2018

REPORT OF ANALYSIS Report Number: 18-283-0224

Lab No: 98451 Matrix: Aqueous

Sample ID: W43-A Sampled: 10/8/2018 12:02

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	79.5	μg/L	0.500	1	10/11/18 22:01	BKN	EPA-200.8
Lead	<0.500	μg/L	0.500	1	10/11/18 22:01	BKN	EPA-200.8

Qualifiers/ **Definitions** DF

Dilution Factor

MQL



Quality Control Data

Client ID:

GLE Associates

Project Description:

CCPS: North Clayton High School

Report No:

18-283-0224

QC Prep:

L403311

QC Prep Batch Method: EPA-200.8

QC Analytical Batch(es): L403735

Analysis Method:

EPA-200.8

Analysis Description:

Metals Analyses

Lab Reagent Blank

LRB-L403311

Matrix: AQU

Associated Lab Samples: 98409, 98410, 98411, 98412, 98413, 98414, 98415, 98416, 98417, 98418, 98419, 98420, 98421, 98422, 98423,

98424, 98425, 98426, 98427, 98428

MQL **Blank** Analyzed **Parameter** Units Result < 0.500 Copper μg/L 0.500 10/11/18 20:15 Lead 0.500 μg/L < 0.500 10/11/18 20:15

Laboratory Control Sample

LCS-L403311

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits	
Copper	μg/L	50.3	49.8	99.1	85-115	
Lead	μg/L	50.3	49.6	98.7	85-115	

Matrix Spike & Matrix Spike Duplicate

L 98428-MS-L403311

L 98428-MSD-L403311

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	55.4	50.3	50.3	99.6	103	87.9	94.7	70-130	3.3	20.0
Lead	μg/L	1.43	50.3	50.3	51.2	51.7	99.0	100	70-130	0.9	20.0

Date: 10/16/2018 11:23 AM

Page 1 of 3



Quality Control Data

Client ID:

GLE Associates

Project Description:

CCPS: North Clayton High School

Report No:

18-283-0224

QC Prep:

L403312

A --- la --- la --- la ---

QC Analytical Batch(es): L403735

Analysis Method:

EPA-200.8

Analysis Description:

Metals Analyses

Lab Reagent Blank

QC Prep Batch Method: EPA-200.8

LRB-L403312

Matrix: AQU

Associated Lab Samples: 98429, 98430, 98431, 98432, 98433, 98434, 98435, 98436, 98437, 98438, 98439, 98440, 98441, 98442, 98443,

98444, 98445, 98446, 98447, 98448

MQL **Blank** Analyzed **Parameter** Units Result < 0.500 Copper μg/L 0.500 10/11/18 21:05 Lead 0.500 μg/L < 0.500 10/11/18 21:05

Laboratory Control Sample

LCS-L403312

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits	
Copper	μg/L	50.3	49.1	97.7	85-115	
Lead	μg/L	50.3	49.3	98.1	85-115	

Matrix Spike & Matrix Spike Duplicate

L 98448-MS-L403312

L 98448-MSD-L403312

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	60.4	50.3	50.3	106	106	90.7	90.7	70-130	0.0	20.0
Lead	μg/L	< 0.503	50.3	50.3	49.8	51.1	99.1	102	70-130	2.5	20.0

Date: 10/16/2018 11:23 AM

Page 2 of 3



Quality Control Data

Client ID: GLE Associates

Project Description: CCPS: North Clayton High School

Report No: 18-283-0224

QC Prep: L403313 QC Prep Batch Method: EPA-200.8 QC Analytical Batch(es): L403736 **Analysis Method:**

EPA-200.8

Analysis Description: Metals Analyses

Lab Reagent Blank

LRB-L403313

Matrix: AQU

Associated Lab Samples: 98449, 98450, 98451

Parameter	Units	Blank Result	MQL	Analyzed
Copper	μg/L	< 0.500	0.500	10/11/18 21:51
Lead	μg/L	< 0.500	0.500	10/11/18 21:51

Laboratory Control Sample

LCS-L403313

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits	
Copper	μg/L	50.3	49.7	98.9	85-115	
Lead	μg/L	50.3	50.4	100	85-115	

Matrix Spike & Matrix Spike Duplicate

L 98476-MS-L403313 L 98476-MSD-L403313

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	93.3	50.3	50.3	135	134	82.9	80.9	70-130	0.7	20.0
Lead	μg/L	< 0.503	50.3	50.3	50.2	49.8	99.8	99.1	70-130	0.8	20.0

Date: 10/16/2018 11:23 AM

Page 3 of 3



Cooler Receipt Form

Customer Number: 23169

Customer Name: **GLE Associates** Report Number: **18-283-0224**

Signature: Tory Phillips

Shipping Method

Fed Ex	US Postal	◯ Lab		Other:	
UPS	Client	O Cou	rier	Thermometer ID:	N/A
Shipping contair	ner/cooler uncompron	nised?	Yes	○ No	
Number of coole	ers received		1		
Custody seals in	ntact on shipping cont	ainer/cooler?	O Yes	○ No	Not Require
Custody seals in	ntact on sample bottle	s?	O Yes	○ No	Not Require
Chain of Custod	y (COC) present?		Yes	○ No	
COC agrees wit	h sample label(s)?		Yes	○ No	
COC properly co	ompleted		Yes	○ No	
Samples in prop	er containers?		Yes	○ No	
Sample containe	ers intact?		Yes	○ No	
Sufficient sample	e volume for indicated	d test(s)?	Yes	○ No	
All samples rece	eived within holding tir	ne?	Yes	○ No	
Cooler temperat	ure in compliance?		Yes	○ No	
	arrived at the laborat onsidered acceptable gun.		○ Yes	● No	
Water - Sample	containers properly p	reserved	Yes	○ No	○ N/A
Water - VOA via	ls free of headspace		O Yes	○ No	● N/A
Trip Blanks rece	eived with VOAs		O Yes	○ No	● N/A
Soil VOA metho	d 5035 – compliance	criteria met	O Yes	○ No	● N/A
High concen	tration container (48 h	nr)	Lov	v concentration EnC	Core samplers (48 hr)
High concent	tration pre-weighed (n	nethanol -14	d) Lov	v conc pre-weighed	vials (Sod Bis -14 d)
Special precauti	ons or instructions ind	cluded?	O Yes	● No	
Comments:					

Page 55 of 60

Date & Time: 10/10/2018 11:04:15

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13-2400 13-2400 13-300 13-300 13-340	ANALYTICAL		-	_	8.		
Time Sample Identification 25	2790 Whitten Road Memphis, TN 38133 (901) 213-2400	Unless noted, all containers per Table II of 40 CFR Part			007 5.001		
0.15 N1-A		Sample Identification	-		00 60		
10:55 Wi-A	,	Somble identification	+	+	Required Ana	lysis / Preservative	Comments/Notes
10:17 W3-A	10:15	WI-A	S	_			1 July 2000 21. 100 2
10.19 W.SA	11:01	M-CM	_	_			4111
10:22 WG-A 10:23 WJ-A 10:23 WJ-A 10:25 WG-A 10:25 WG-A 10:25 WG-A 10:25 WG-A 10:25 WJ-A 10:25 WJ-A 10:25 WJ-A 10:25 WJ-A 10:26 WJ-A 10:27 WJ-A 10:28 WJ-A 10:20							ZIMT OFTEKTIA
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client Name/Address



11/21/2018

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

Ref: **Analytical Testing**

Lab Report Number: 18-319-0273

Client Project Description: CCPS: North Clayton High School

Atlanta, GA

Project# 18000-18861

Dear Ms. Katrina Riley:

Waypoint Analytical, LLC. received sample(s) on 11/15/2018 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 asreceived 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.

ndrew Broughell



Sample Summary Table

Report Number: 18-319-0273

Client Project Description: CCPS: North Clayton High School

Atlanta, GA

Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89552	W-10B	Aqueous	11/14/2018 17:12	11/15/2018
89553	W-16B	Aqueous	11/14/2018 17:23	11/15/2018



Summary of Detected Analytes

Project: CCPS: North Clayton High School

Report Number: 18-319-0273

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W-10B	L 89552					
EPA-200.8	Copper	109	μg/L	0.500	11/20/2018 09:45	
EPA-200.8	Lead	12.3	μg/L	0.500	11/20/2018 09:45	
W-16B	L 89553					
EPA-200.8	Copper	116	μg/L	0.500	11/20/2018 09:47	
EPA-200.8	Lead	0.564	μg/L	0.500	11/20/2018 09:47	



23169

GLE Associates Ms. Katrina Riley

1100 Spring St, NW2Suite 820

89552

Suite 820

Lab No:

Atlanta, GA 30309

Sample ID: W-10B

Project CCPS: North Clayton High School

Information: Atlanta, GA

Project# 18000-18861

Andrea R. Brownfield Project manager

Report Date: 11/21/2018

Received: 11/15/2018

Report Number: 18-319-0273 REPORT OF ANALYSIS

Matrix: Aqueous

Sampled: 11/14/2018 17:12

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	109	μg/L	0.500	1	11/20/18 09:45	CCR	EPA-200.8
Lead	12.3	μg/L	0.500	1	11/20/18 09:45	CCR	EPA-200.8

Qualifiers/ Definitions DF

Dilution Factor

MQL

Method Quantitation Limit



23169

GLE Associates Ms. Katrina Riley

1100 Spring St, NW2Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: North Clayton High School

Information: Atlanta, GA

Project# 18000-18861

Andrea R. Brownfield Project manager

Report Date: 11/21/2018

Received: 11/15/2018

Report Number : 18-319-0273

REPORT OF ANALYSIS

Lab No: 89553 Matrix: Aqueous

Sample ID : **W-16B** Sampled: **11/14/2018 17:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Connec					/20/40.00.47	000	FD4 200 0
Copper	116	μg/L	0.500	1	11/20/18 09:47	CCR	EPA-200.8
Lead	0.564	μg/L	0.500	1	11/20/18 09:47	CCR	EPA-200.8



Quality Control Data

Client ID:

GLE Associates

Project Description:

CCPS: North Clayton High School

Report No:

18-319-0273

QC Prep:

L409455

QC Prep Batch Method: EPA-200.8

QC Analytical Batch(es): L409749

Analysis Method:

EPA-200.8

Analysis Description:

Metals Analyses

Lab Reagent Blank

LRB-L409455

Matrix: AQU

Associated Lab Samples: 89552, 89553

		Blank
Parameter	Units	Result

 μ g/L < 0.500 Copper Lead μ g/L < 0.500 0.500 0.500

MQL

11/20/18 09:37 11/20/18 09:37

Analyzed

Laboratory Control Sample

LCS-L409455

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits	
Copper	μg/L	50.3	49.8	99.1	85-115	
Lead	μg/L	50.3	49.5	98.5	85-115	

Matrix Spike & Matrix Spike Duplicate

L 89553-MS-L409455

L 89553-MSD-L409455

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	116	50.3	50.3	161	159	89.5	85.5	70-130	1.2	20.0
Lead	μg/L	0.564	50.3	50.3	50.4	50.8	99.1	99.9	70-130	0.7	20.0

Date: 11/21/2018 03:15 PM

Page 6 of 8



Cooler Receipt Form

Customer Number: 23169

Customer Name: GLE Associates 18-319-0273 Report Number:

Shipping Method

		Omphing				
◯ Fed Ex	US Postal	◯ Lab		Other:		
UPS	Client	Courier		Thermometer ID:	T45	
Shipping containe	er/cooler uncomprom	nised?	Yes	○ No		
Number of cooler	rs received		1			
Custody seals int	act on shipping conta	ainer/cooler? (Yes	○ No	Not R	Required
Custody seals int	act on sample bottle	s? () Yes	○ No	Not F	Required
Chain of Custody	(COC) present?	(Yes	○ No		
COC agrees with	sample label(s)?		Yes	○ No		
COC properly cor	mpleted	(Yes	○ No		
Samples in prope	er containers?		Yes	○ No		
Sample containe	rs intact?	(Yes	○ No		
Sufficient sample	volume for indicated	d test(s)?	Yes	○ No		
All samples recei	ved within holding tir	ne?	Yes	○ No		
Cooler temperatu	re in compliance?		Yes	○ No		
	arrived at the laborat Insidered acceptable un.		Yes	○ No		
Water - Sample o	containers properly p	reserved	Yes	○ No	○ N/A	
Water - VOA vials	s free of headspace	(Yes	○ No	● N/A	
Trip Blanks receiv	ved with VOAs	(Yes	○ No	● N/A	
Soil VOA method	5035 - compliance	criteria met (Yes	○ No	● N/A	
High concentr	ration container (48 h	nr)	Lov	v concentration EnC	ore samplers	(48 hr)
High concentr	ation pre-weighed (n	nethanol -14 d)	☐ Lov	v conc pre-weighed	vials (Sod Bis	-14 d)
Special precautio	ns or instructions inc	cluded? (Yes	No		
Comments:						

Page 7 of 8

Signature: Sovanchampa Yos

Date & Time: 11/15/2018 12:52:18

September 100 811-9/E15CS000385 07/15

APPENDIX B Laboratory Certification



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

WAR 1 3 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 (Sections12-5-170 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

