

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

**Tara Elementary School
CCPS No: 1062
937 Mount Zion Road
Morrow, GA 30260**

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 Tara 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 29, 2018, Ms. Katrina Riley and Ms. Isis Hamilton of GLE Associates, Inc. (GLE), performed lead and copper in drinking water sampling of Client-designated drinking water fountains and outlets used for drinking, cooking, and/or nursing located within Tara Elementary School located at 937 Mount Zion Road, in Morrow, Georgia. According to the Client's representative, Tara Elementary School was originally constructed in 1964, with major renovations or additions in 1967, 1980, 1996, 2001, and 2011. It is our understanding that no previous water testing has been conducted at Tara Elementary School.

2.0 INVENTORY AND SAMPLING PLANS

Prior to the sampling event, on February 20, 2018, GLE mobilized to the site to inventory the existing outlets at the facility to devise a sampling plan. Further, GLE submitted a Plumbing Profile to CCPS to complete prior to sampling. Based on the results of GLE's inventory and CCPS's plumbing profile, a sampling plan was created and provided to CCPS. A copy of the Sampling Plan with the sample number identifying sample areas is included in **Appendix C**.

3.0 LEAD AND COPPER IN DRINKING WATER SAMPLING PROCEDURES

Prior to the sampling event, a Client-designated representative flushed all drinking, cooking, and nursing water outlets the night before each sampling event (or between at least 8 to 18 hours prior to the sampling event). Refrigerated drinking water fountains were flushed for 15 minutes. Non-refrigerated fountains and faucets used for drinking and cleaning were run for 30 seconds to one minute or until cold. The remaining Client-designated faucets 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 (HNO₃). The sample was collected immediately after activating the water fountain or outlet, described in this report as “first draw”.

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

4.0 LEAD AND COPPER IN DRINKING WATER SAMPLING FINDINGS

A total of 88 initial first draw 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 (6) water samples initially collected within Room 308 were determined by the Client not to be a drinking water source, therefore, these water samples were not analyzed per the Client’s request. The sample ID consisted of “W” for water, sample number, followed by A for first draw. A summary of the analytical results for the lead and copper in drinking water sampling follows in **Table 4.1 – Summary of Lead and Copper in Drinking Water Sampling Results**. The reporting limit for the lead sample analysis was 0.500 microgram per liter (µg/L) or parts per billion (ppb) and for copper sample analysis was 0.500 micrograms per liter (µg/L) or parts per billion (ppb).

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

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
TARA ELEMENTARY SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W1A	CLASSROOM-402 FAUCET	BRL	37.3
W2A	CLASSROOM-402 FAUCET	BRL	37.8
W3A	CLASSROOM-403 DRINKING WATER FOUNTAIN	BRL	197
W4A	CLASSROOM-403 FAUCET	BRL	112
W5A	CLASSROOM-404 DRINKING WATER FOUNTAIN	BRL	167
W6A	CLASSROOM 404 FAUCET	BRL	114
W7A	KINDERGARDEN HALLWAY- DRINKING WATER FOUNTAIN (RIGHT)	BRL	144
W8A	KINDERGARDEN HALLWAY- DRINKING WATER FOUNTAIN (LEFT)	BRL	147
W9A	CLASSROOM-405 DRINKING WATER FOUNTAIN	BRL	192
W10A	CLASSROOM-405 FAUCET	BRL	120
W11A	CLASSROOM-407 DRINKING WATER FOUNTAIN	BRL	146
W12A	CLASSROOM-407 FAUCET	BRL	136
W13A	CLASSROOM-406 DRINKING WATER FOUNTAIN	BRL	186
W14A	CLASSROOM-406 FAUCET	BRL	150

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
TARA ELEMENTARY SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W15A	CLASSROOM-409 DRINKING WATER FOUNTAIN	BRL	188
W16A	CLASSROOM-409 FAUCET	BRL	104
W17A	CLASSROOM-408 DRINKING WATER FOUNTAIN	BRL	174
W18A	CLASSROOM-408 FAUCET	1.53	153
W19A	CLASSROOM-411 DRINKING WATER FOUNTAIN	BRL	178
W20A	CLASSROOM-411 FAUCET	BRL	138
W21A	CLASSROOM-410 DRINKING WATER FOUNTAIN	BRL	216
W22A	CLASSROOM-410 FAUCET	BRL	189
W23A	CLASSROOM-413 DRINKING WATER FOUNTAIN	BRL	202
W24A	CLASSROOM-413 FAUCET	0.611	160
W25A	CLASSROOM-412 DRINKING WATER FOUNTAIN	0.613	178
W26A	CLASSROOM-412 FAUCET	0.880	155
W27A	CLASSROOM-415 DRINKING WATER FOUNTAIN	1.11	247
W28A	CLASSROOM-415 FAUCET	1.58	281
W29A	CLASSROOM-416 DRINKING WATER FOUNTAIN	BRL	121

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
TARA ELEMENTARY SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W30A	CLASSROOM-416 FAUCET	0.563	86.3
W31A	FIRST GRADE HALLWAY- DRINKING WATER FOUNTAIN	BRL	70.2
W32A	CLASSROOM-417 DRINKING WATER FOUNTAIN	BRL	194
W33A	CLASSROOM-417 FAUCET	0.652	247
W34A	CLASSROOM-418 DRINKING WATER FOUNTAIN	0.763	196
W35A	CLASSROOM-418 FAUCET	0.840	182
W36A	FIFTH GRADE HALLWAY- DRINKING WATER FOUNTAIN (RIGHT)	BRL	86.4
W37A	FIFTH GRADE HALLWAY- DRINKING WATER FOUNTAIN (LEFT)	BRL	102
W38A	CLASSROOM-216 DRINKING WATER FOUNTAIN	1.00	173
W39A	CLASSROOM-216 FAUCET	BRL	169
W40A	CLASSROOM-215 DRINKING WATER FOUNTAIN	BRL	263
W41A	CLASSROOM-215 FAUCET	BRL	186
W42A	CLASSROOM-214 DRINKING WATER FOUNTAIN	BRL	159
W43A	CLASSROOM-214 FAUCET	BRL	150

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
TARA ELEMENTARY SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W44A	CLASSTOOM-213 DRINKING WATER FOUNTAIN	BRL	154
W45A	CLASSROOM-213 FAUCET	BRL	121
W46A	CLASSROOM-212 DRINKING WATER FOUNTAIN	0.504	192
W47A	CLASSROOM-212 FAUCET	BRL	147
W48A	4 TH GRADE HALLWAY- DRINKING WATER FOUNTAIN	BRL	80.2
W49A	CLASSROOM-201 DRINKING WATER FOUNTAIN	0.523	217
W50A	CLASSROOM-201 FAUCET	0.519	155
W51A	WORKROOM-100.12 FAUCET	BRL	162
W52A	WORKROOM-100.12 DRINKING WATER FOUNTAIN	BRL	132
W53A	MEDIA CENTER- DRINKING WATER FOUNTAIN (LEFT)	BRL	89.1
W54A	MEDIA CENTER- DRINKING WATER FOUNTAIN (RIGHT)	BRL	83.4
W55A	MEDIA CENTER- FAUCET	0.571	208
W56A	ADMINISTRATIVE OFFICE- FAUCET	0.550	145
W57A	CLINIC- FAUCET	BRL	321
W58A	OUTDOOR COURTYARD HALLWAY- DRINKING WATER FOUNTAIN (RIGHT)	BRL	174

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
TARA ELEMENTARY SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W59A	OUTDOOR COURTYARD HALLWAY- DRINKING WATER FOUNTAIN (LEFT)	BRL	179
W60A	GYMNASIUM- DRINKING WATER FOUNTAIN	0.965	195
W61A	THIRD GRADE HALLWAY- DRINKING WATER FOUNTAIN (RIGHT)	BRL	164
W62A	THIRD GRADE HALLWAY- DRINKING WATER FOUNTAIN (LEFT)	BRL	179
W63A	CLASSROOM-309 DRINKING WATER FOUNTAIN	BRL	193
W64A	CLASSROOM-309 FAUCET	BRL	144
W65A	CLASSROOM-307 DRINKING WATER FOUNTAIN	BRL	198
W66A	CLASSROOM-307 FAUCET	BRL	164
W73A	HALLWAY NEAR ROOM 301.06- DRINKING WATER FOUNTAIN	BRL	90.7
W74A	CAFETERIA- DRINKING WATER FOUNTAIN (RIGHT)	BRL	151
W75A	CAFETERIA- DRINKING WATER FOUNTAIN (RIGHT)	BRL	164
W76A	CAFETERIA- DRINKING WATER FOUNTAIN (LEFT)	BRL	148
W77A	CAFETERIA- DRINKING WATER FOUNTAIN (LEFT)	BRL	171
W78A	KITCHEN NORTH WALL- FAUCET (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	138

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
TARA ELEMENTARY SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W79A	KITCHEN SOUTH WALL (NEAR SHOWERHEAD)- FAUCET (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	164
W80A	KITCHEN DISHROOM- FAUCET (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	157
W81A	KITCHEN WEST WALL- FAUCET (LEFT) (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	188
W82A	KITCHEN WEST WALL- FAUCET (RIGHT) (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	196
W83A	KITCHEN- STEAMER (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	108
W84A	KITCHEN – STEAMER (REFER TO APPENDIX C FOR EXACT LOCATION)	BRL	134
W85A	KITCHEN EAST WALL- FAUCET (LEFT)	BRL	214
W86A	KITCHEN EAST WALL- FAUCET (RIGHT)	BRL	166
W87A	KITCHEN- ICE	BRL	1.00
W88A	WORKROOM 901.05- FAUCET	0.679	161

BRL – Below Reporting Limits

µg/L – micrograms per liter

Results in **bold** indicate levels above the EPA PWS Action Level of 15 µg/L for Lead or 1300 µg/L for copper in Drinking Water

5.0 CONCLUSIONS

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

1. A total of 88 water samples were collected for analysis of lead and copper content, comprised of one water sample from each Client-designated water drinking water fountains and outlets used for drinking, cooking, and/or nursing outlets at Tara Elementary School. Eighty-two (82) first draw water samples were submitted to the laboratory for analysis. Per the Client's request six samples collected within Room 308 were not analyzed, because the outlets were reportedly not used as a drinking water source.
2. None of the 82 samples collected and analyzed for lead were reported to be greater than the EPA PWS AL of 15 µg/L for lead in drinking water.
3. None of the 82 samples collected and analyzed for copper were reported to be greater than 1,300 µg/L for copper in drinking water.
4. 18 of the 82 first draw water samples analyzed indicated detectable levels of lead. None of the 82 first draw water samples with detectable levels of lead were greater than the EPA PWS AL of 15µg/L.
5. 82 of the 82 first draw water samples analyzed indicated detectable levels of copper. None of the 82 first draw water samples with detectable levels of copper were greater than 1,300µg/L.

6.0 LIMITATIONS

The results of this assessment apply only to those specific Client-designated water outlets sampled. Samples initially collected from Room 308 (not a drinking water source) were not analyzed per the Client's 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 the sampling event.

APPENDIX A
Laboratory Analytical Results and
Chain of Custody

6/6/2018

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

Ref: Analytical Testing
Lab Report Number: 18-150-0306
Client Project Description: CCPS: Tara ES
Morrow, GA
Project # 1800-18861

Dear Ms. Katrina Riley:

Waypoint Analytical, Inc. received sample(s) on 5/30/2018 for the analyses presented in the following report.

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

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

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

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

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

Sincerely,



Andrea R Brownfield
Project manager

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

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



Sample Summary Table

Report Number: 18-150-0306
Client Project Description: CCPS: Tara ES
Morrow, GA
Project # 1800-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98829	W1-A	Aqueous	05/29/2018 03:28	05/30/2018
98830	W2-A	Aqueous	05/29/2018 03:28	05/30/2018
98831	W3-A	Aqueous	05/29/2018 03:32	05/30/2018
98832	W4-A	Aqueous	05/29/2018 03:32	05/30/2018
98833	W5-A	Aqueous	05/29/2018 03:35	05/30/2018
98834	W6-A	Aqueous	05/29/2018 03:35	05/30/2018
98835	W7-A	Aqueous	05/29/2018 03:37	05/30/2018
98836	W8-A	Aqueous	05/29/2018 03:38	05/30/2018
98837	W9-A	Aqueous	05/29/2018 03:40	05/30/2018
98838	W10-A	Aqueous	05/29/2018 03:40	05/30/2018
98839	W11-A	Aqueous	05/29/2018 03:42	05/30/2018
98840	W12-A	Aqueous	05/29/2018 03:42	05/30/2018
98841	W13-A	Aqueous	05/29/2018 03:44	05/30/2018
98842	W14-A	Aqueous	05/29/2018 03:44	05/30/2018
98843	W15-A	Aqueous	05/29/2018 03:47	05/30/2018
98844	W16-A	Aqueous	05/29/2018 03:48	05/30/2018
98845	W17-A	Aqueous	05/29/2018 03:15	05/30/2018
98846	W18-A	Aqueous	05/29/2018 03:52	05/30/2018
98847	W19-A	Aqueous	05/29/2018 03:53	05/30/2018
98848	W20-A	Aqueous	05/29/2018 03:54	05/30/2018
98849	W21-A	Aqueous	05/29/2018 03:56	05/30/2018
98850	W22-A	Aqueous	05/29/2018 03:57	05/30/2018
98851	W23-A	Aqueous	05/29/2018 03:58	05/30/2018
98852	W24-A	Aqueous	05/29/2018 03:59	05/30/2018
98853	W25-A	Aqueous	05/29/2018 04:01	05/30/2018
98854	W26-A	Aqueous	05/29/2018 04:02	05/30/2018

Sample Summary Table

Report Number: 18-150-0306
Client Project Description: CCPS: Tara ES
Morrow, GA
Project # 1800-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98855	W27-A	Aqueous	05/29/2018 04:02	05/30/2018
98856	W28-A	Aqueous	05/29/2018 04:03	05/30/2018
98857	W29-A	Aqueous	05/29/2018 04:04	05/30/2018
98858	W30-A	Aqueous	05/29/2018 04:05	05/30/2018
98859	W31-A	Aqueous	05/29/2018 04:06	05/30/2018
98860	W32-A	Aqueous	05/29/2018 04:07	05/30/2018
98861	W33-A	Aqueous	05/29/2018 04:08	05/30/2018
98862	W34-A	Aqueous	05/29/2018 04:10	05/30/2018
98863	W35-A	Aqueous	05/29/2018 04:11	05/30/2018
98864	W36-A	Aqueous	05/29/2018 04:18	05/30/2018
98865	W37-A	Aqueous	05/29/2018 04:18	05/30/2018
98866	W38-A	Aqueous	05/29/2018 04:19	05/30/2018
98867	W39-A	Aqueous	05/29/2018 04:20	05/30/2018
98868	W40-A	Aqueous	05/29/2018 04:21	05/30/2018
98869	W41-A	Aqueous	05/29/2018 04:22	05/30/2018
98870	W42-A	Aqueous	05/29/2018 04:24	05/30/2018
98871	W43-A	Aqueous	05/29/2018 04:25	05/30/2018
98872	W44-A	Aqueous	05/29/2018 04:26	05/30/2018
98873	W45-A	Aqueous	05/29/2018 04:27	05/30/2018
98874	W46-A	Aqueous	05/29/2018 04:28	05/30/2018
98875	W47-A	Aqueous	05/29/2018 04:29	05/30/2018
98876	W48-A	Aqueous	05/29/2018 04:31	05/30/2018
98877	W49-A	Aqueous	05/29/2018 04:34	05/30/2018
98878	W50-A	Aqueous	05/29/2018 04:35	05/30/2018
98879	W51-A	Aqueous	05/29/2018 04:40	05/30/2018
98880	W52-A	Aqueous	05/29/2018 04:41	05/30/2018

Sample Summary Table

Report Number: 18-150-0306
Client Project Description: CCPS: Tara ES
Morrow, GA
Project # 1800-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98881	W53-A	Aqueous	05/29/2018 04:42	05/30/2018
98882	W54-A	Aqueous	05/29/2018 04:43	05/30/2018
98883	W55-A	Aqueous	05/29/2018 04:45	05/30/2018
98884	W56-A	Aqueous	05/29/2018 04:48	05/30/2018
98885	W57-A	Aqueous	05/29/2018 04:50	05/30/2018
98886	W58-A	Aqueous	05/29/2018 04:53	05/30/2018
98887	W59-A	Aqueous	05/29/2018 04:54	05/30/2018
98888	W60-A	Aqueous	05/29/2018 04:56	05/30/2018
98889	W61-A	Aqueous	05/29/2018 05:00	05/30/2018
98890	W62-A	Aqueous	05/29/2018 05:01	05/30/2018
98891	W63-A	Aqueous	05/29/2018 05:02	05/30/2018
98892	W64-A	Aqueous	05/29/2018 05:03	05/30/2018
98893	W65-A	Aqueous	05/29/2018 05:06	05/30/2018
98894	W66-A	Aqueous	05/29/2018 05:07	05/30/2018
98895	W73-A	Aqueous	05/29/2018 05:18	05/30/2018
98896	W74-A	Aqueous	05/29/2018 05:23	05/30/2018
98897	W75-A	Aqueous	05/29/2018 05:24	05/30/2018
98898	W76-A	Aqueous	05/29/2018 05:27	05/30/2018
98899	W77-A	Aqueous	05/29/2018 05:27	05/30/2018
98900	W78-A	Aqueous	05/29/2018 05:30	05/30/2018
98901	W79-A	Aqueous	05/29/2018 05:30	05/30/2018
98902	W80-A	Aqueous	05/29/2018 05:31	05/30/2018
98903	W81-A	Aqueous	05/29/2018 05:32	05/30/2018
98904	W82-A	Aqueous	05/29/2018 05:33	05/30/2018
98905	W83-A	Aqueous	05/29/2018 05:34	05/30/2018
98906	W84-A	Aqueous	05/29/2018 05:35	05/30/2018



Sample Summary Table

Report Number: 18-150-0306
Client Project Description: CCPS: Tara ES
Morrow, GA
Project # 1800-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98907	W85-A	Aqueous	05/29/2018 05:37	05/30/2018
98908	W86-A	Aqueous	05/29/2018 05:38	05/30/2018
98909	W87-A	Aqueous	05/29/2018 05:40	05/30/2018
98910	W88-A	Aqueous	05/29/2018 06:10	05/30/2018

Summary of Detected Analytes

Project: CCPS: Tara ES

Report Number: 18-150-0306

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W1-A	L 98829					
EPA-200.8	Copper	37.3	µg/L	0.500	05/31/2018 14:15	
W2-A	L 98830					
EPA-200.8	Copper	37.8	µg/L	0.500	05/31/2018 14:02	
W3-A	L 98831					
EPA-200.8	Copper	197	µg/L	0.500	05/31/2018 14:03	
W4-A	L 98832					
EPA-200.8	Copper	112	µg/L	0.500	05/31/2018 14:06	
W5-A	L 98833					
EPA-200.8	Copper	167	µg/L	0.500	05/31/2018 14:09	
W6-A	L 98834					
EPA-200.8	Copper	114	µg/L	0.500	05/31/2018 14:12	
W7-A	L 98835					
EPA-200.8	Copper	144	µg/L	0.500	05/31/2018 14:16	
W8-A	L 98836					
EPA-200.8	Copper	147	µg/L	0.500	05/31/2018 14:19	
W9-A	L 98837					
EPA-200.8	Copper	192	µg/L	0.500	05/31/2018 14:24	
W10-A	L 98838					
EPA-200.8	Copper	120	µg/L	0.500	05/31/2018 14:40	
W11-A	L 98839					
EPA-200.8	Copper	146	µg/L	0.500	05/31/2018 14:43	
W12-A	L 98840					
EPA-200.8	Copper	136	µg/L	0.500	05/31/2018 14:46	
W13-A	L 98841					
EPA-200.8	Copper	186	µg/L	0.500	05/31/2018 14:51	
W14-A	L 98842					
EPA-200.8	Copper	150	µg/L	0.500	05/31/2018 14:54	
W15-A	L 98843					
EPA-200.8	Copper	188	µg/L	0.500	05/31/2018 14:57	
W16-A	L 98844					
EPA-200.8	Copper	104	µg/L	0.500	05/31/2018 15:00	

Summary of Detected Analytes

Project: CCPS: Tara ES

Report Number: 18-150-0306

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W17-A	L 98845					
EPA-200.8	Copper	174	µg/L	0.500	05/31/2018 15:03	
W18-A	L 98846					
EPA-200.8	Copper	153	µg/L	0.500	05/31/2018 15:06	
W19-A	L 98847					
EPA-200.8	Copper	178	µg/L	0.500	05/31/2018 15:08	
W20-A	L 98848					
EPA-200.8	Copper	138	µg/L	0.500	05/31/2018 15:11	
W21-A	L 98849					
EPA-200.8	Copper	216	µg/L	0.500	05/31/2018 15:14	
W22-A	L 98850					
EPA-200.8	Copper	189	µg/L	0.500	05/31/2018 15:17	
W23-A	L 98851					
EPA-200.8	Copper	202	µg/L	0.500	05/31/2018 15:22	
W24-A	L 98852					
EPA-200.8	Copper	160	µg/L	0.500	05/31/2018 15:25	
EPA-200.8	Lead	0.611	µg/L	0.500	05/31/2018 15:25	
W25-A	L 98853					
EPA-200.8	Copper	178	µg/L	0.500	05/31/2018 15:28	
EPA-200.8	Lead	0.613	µg/L	0.500	05/31/2018 15:28	
W26-A	L 98854					
EPA-200.8	Copper	155	µg/L	0.500	05/31/2018 15:31	
EPA-200.8	Lead	0.880	µg/L	0.500	05/31/2018 15:31	
W27-A	L 98855					
EPA-200.8	Copper	247	µg/L	0.500	05/31/2018 15:34	
EPA-200.8	Lead	1.11	µg/L	0.500	05/31/2018 15:34	
W28-A	L 98856					
EPA-200.8	Copper	281	µg/L	0.500	05/31/2018 15:37	
EPA-200.8	Lead	1.58	µg/L	0.500	05/31/2018 15:37	
W29-A	L 98857					
EPA-200.8	Copper	121	µg/L	0.500	05/31/2018 15:40	
W30-A	L 98858					
EPA-200.8	Copper	86.3	µg/L	0.500	05/31/2018 15:58	

Summary of Detected Analytes

Project: CCPS: Tara ES

Report Number: 18-150-0306

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W30-A	L 98858					
EPA-200.8	Lead	0.563	µg/L	0.500	05/31/2018 15:58	
W31-A	L 98859					
EPA-200.8	Copper	70.2	µg/L	0.500	05/31/2018 16:04	
W32-A	L 98860					
EPA-200.8	Copper	194	µg/L	0.500	05/31/2018 16:06	
W33-A	L 98861					
EPA-200.8	Copper	247	µg/L	0.500	05/31/2018 16:09	
EPA-200.8	Lead	0.652	µg/L	0.500	05/31/2018 16:09	
W34-A	L 98862					
EPA-200.8	Copper	196	µg/L	0.500	05/31/2018 16:12	
EPA-200.8	Lead	0.763	µg/L	0.500	05/31/2018 16:12	
W35-A	L 98863					
EPA-200.8	Copper	182	µg/L	0.500	05/31/2018 16:15	
EPA-200.8	Lead	0.840	µg/L	0.500	05/31/2018 16:15	
W36-A	L 98864					
EPA-200.8	Copper	86.4	µg/L	0.500	05/31/2018 16:17	
W37-A	L 98865					
EPA-200.8	Copper	102	µg/L	0.500	05/31/2018 16:23	
W38-A	L 98866					
EPA-200.8	Copper	173	µg/L	0.500	05/31/2018 16:26	
EPA-200.8	Lead	1.00	µg/L	0.500	05/31/2018 16:26	
W39-A	L 98867					
EPA-200.8	Copper	169	µg/L	0.500	05/31/2018 16:29	
W40-A	L 98868					
EPA-200.8	Copper	263	µg/L	0.500	05/31/2018 16:31	
W41-A	L 98869					
EPA-200.8	Copper	186	µg/L	0.500	05/31/2018 16:34	
W42-A	L 98870					
EPA-200.8	Copper	159	µg/L	0.500	05/31/2018 16:37	
W43-A	L 98871					
EPA-200.8	Copper	150	µg/L	0.500	05/31/2018 16:40	

Summary of Detected Analytes

Project: CCPS: Tara ES

Report Number: 18-150-0306

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W44-A	L 98872					
EPA-200.8	Copper	154	µg/L	0.500	05/31/2018 16:43	
W45-A	L 98873					
EPA-200.8	Copper	121	µg/L	0.500	05/31/2018 16:46	
W46-A	L 98874					
EPA-200.8	Copper	192	µg/L	0.500	05/31/2018 16:49	
EPA-200.8	Lead	0.504	µg/L	0.500	05/31/2018 16:49	
W47-A	L 98875					
EPA-200.8	Copper	147	µg/L	0.500	05/31/2018 16:54	
W48-A	L 98876					
EPA-200.8	Copper	80.2	µg/L	0.500	05/31/2018 16:57	
W49-A	L 98877					
EPA-200.8	Copper	217	µg/L	0.500	05/31/2018 16:59	
EPA-200.8	Lead	0.523	µg/L	0.500	05/31/2018 16:59	
W50-A	L 98878					
EPA-200.8	Copper	155	µg/L	0.500	05/31/2018 17:14	
EPA-200.8	Lead	0.519	µg/L	0.500	05/31/2018 17:14	
W51-A	L 98879					
EPA-200.8	Copper	162	µg/L	0.500	05/31/2018 17:20	
W52-A	L 98880					
EPA-200.8	Copper	132	µg/L	0.500	05/31/2018 17:23	
W53-A	L 98881					
EPA-200.8	Copper	89.1	µg/L	0.500	05/31/2018 17:26	
W54-A	L 98882					
EPA-200.8	Copper	83.4	µg/L	0.500	05/31/2018 17:27	
W55-A	L 98883					
EPA-200.8	Copper	208	µg/L	0.500	05/31/2018 17:28	
EPA-200.8	Lead	0.571	µg/L	0.500	05/31/2018 17:28	
W56-A	L 98884					
EPA-200.8	Copper	145	µg/L	0.500	05/31/2018 17:31	
EPA-200.8	Lead	0.550	µg/L	0.500	05/31/2018 17:31	
W57-A	L 98885					
EPA-200.8	Copper	321	µg/L	0.500	05/31/2018 17:34	

Summary of Detected Analytes

Project: CCPS: Tara ES

Report Number: 18-150-0306

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W58-A	L 98886					
EPA-200.8	Copper	174	µg/L	0.500	05/31/2018 17:37	
W59-A	L 98887					
EPA-200.8	Copper	179	µg/L	0.500	05/31/2018 17:40	
W60-A	L 98888					
EPA-200.8	Copper	195	µg/L	0.500	05/31/2018 17:43	
EPA-200.8	Lead	0.965	µg/L	0.500	05/31/2018 17:43	
W61-A	L 98889					
EPA-200.8	Copper	164	µg/L	0.500	05/31/2018 17:48	
W62-A	L 98890					
EPA-200.8	Copper	179	µg/L	0.500	05/31/2018 17:51	
W63-A	L 98891					
EPA-200.8	Copper	193	µg/L	0.500	05/31/2018 17:54	
W64-A	L 98892					
EPA-200.8	Copper	144	µg/L	0.500	05/31/2018 17:57	
W65-A	L 98893					
EPA-200.8	Copper	198	µg/L	0.500	05/31/2018 18:00	
W66-A	L 98894					
EPA-200.8	Copper	164	µg/L	0.500	05/31/2018 18:03	
W73-A	L 98895					
EPA-200.8	Copper	90.7	µg/L	0.500	05/31/2018 18:06	
W74-A	L 98896					
EPA-200.8	Copper	151	µg/L	0.500	05/31/2018 18:07	
W75-A	L 98897					
EPA-200.8	Copper	164	µg/L	0.500	06/01/2018 21:43	
W76-A	L 98898					
EPA-200.8	Copper	148	µg/L	0.500	06/01/2018 20:15	
W77-A	L 98899					
EPA-200.8	Copper	171	µg/L	0.500	06/01/2018 20:20	
W78-A	L 98900					
EPA-200.8	Copper	138	µg/L	0.500	06/01/2018 20:25	

Summary of Detected Analytes

Project: CCPS: Tara ES

Report Number: 18-150-0306

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W79-A	L 98901					
EPA-200.8	Copper	164	µg/L	0.500	06/01/2018 20:30	
W80-A	L 98902					
EPA-200.8	Copper	157	µg/L	0.500	06/01/2018 20:35	
W81-A	L 98903					
EPA-200.8	Copper	188	µg/L	0.500	06/01/2018 20:40	
W82-A	L 98904					
EPA-200.8	Copper	196	µg/L	0.500	06/01/2018 20:45	
W83-A	L 98905					
EPA-200.8	Copper	108	µg/L	0.500	06/01/2018 20:50	
W84-A	L 98906					
EPA-200.8	Copper	134	µg/L	0.500	06/01/2018 20:55	
W85-A	L 98907					
EPA-200.8	Copper	214	µg/L	0.500	06/01/2018 21:06	
W86-A	L 98908					
EPA-200.8	Copper	166	µg/L	0.500	06/01/2018 21:11	
W87-A	L 98909					
EPA-200.8	Copper	1.00	µg/L	0.500	06/01/2018 21:16	
W88-A	L 98910					
EPA-200.8	Copper	161	µg/L	0.500	06/01/2018 21:20	
EPA-200.8	Lead	0.679	µg/L	0.500	06/01/2018 21:20	

23169

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98829**

Sample ID : **W1-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	37.3	µg/L	0.500	1	05/31/18 14:15	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:15	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98830**

Sample ID : **W2-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	37.8	µg/L	0.500	1	05/31/18 14:02	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:02	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98831**

Sample ID : **W3-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	197	µg/L	0.500	1	05/31/18 14:03	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:03	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
Project manager

Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98832**

Sample ID: **W4-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	112	µg/L	0.500	1	05/31/18 14:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
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Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98833**

Sample ID: **W5-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	167	µg/L	0.500	1	05/31/18 14:09	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:09	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98834**

Sample ID : **W6-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	114	µg/L	0.500	1	05/31/18 14:12	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:12	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98835**

Sample ID : **W7-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	144	µg/L	0.500	1	05/31/18 14:16	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:16	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

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Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
Project manager

Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98836**

Sample ID: **W8-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	147	µg/L	0.500	1	05/31/18 14:19	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:19	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98837**

Sample ID : **W9-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	192	µg/L	0.500	1	05/31/18 14:24	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:24	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98838**

Sample ID : **W10-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	120	µg/L	0.500	1	05/31/18 14:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98839**

Sample ID : **W11-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	146	µg/L	0.500	1	05/31/18 14:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:43	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information: Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98840**

Sample ID : **W12-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	136	µg/L	0.500	1	05/31/18 14:46	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:46	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
Project manager

Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98841**

Sample ID: **W13-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	186	µg/L	0.500	1	05/31/18 14:51	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:51	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98842**

Sample ID : **W14-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	150	µg/L	0.500	1	05/31/18 14:54	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:54	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information: Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98843**

Sample ID : **W15-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	188	µg/L	0.500	1	05/31/18 14:57	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 14:57	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98844**

Sample ID : **W16-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:48**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	104	µg/L	0.500	1	05/31/18 15:00	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:00	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98845**

Sample ID : **W17-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	174	µg/L	0.500	1	05/31/18 15:03	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:03	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98846**

Sample ID : **W18-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	153	µg/L	0.500	1	05/31/18 15:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:06	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98847**

Sample ID : **W19-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	178	µg/L	0.500	1	05/31/18 15:08	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:08	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98848**

Sample ID : **W20-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:54**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	138	µg/L	0.500	1	05/31/18 15:11	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:11	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98849**

Sample ID : **W21-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:56**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	216	µg/L	0.500	1	05/31/18 15:14	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:14	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98850**

Sample ID : **W22-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	189	µg/L	0.500	1	05/31/18 15:17	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:17	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98851**

Sample ID : **W23-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	202	µg/L	0.500	1	05/31/18 15:22	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:22	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98852**

Sample ID : **W24-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 3:59**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	160	µg/L	0.500	1	05/31/18 15:25	CCR	EPA-200.8
Lead	0.611	µg/L	0.500	1	05/31/18 15:25	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98853**

Sample ID : **W25-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:01**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	178	µg/L	0.500	1	05/31/18 15:28	CCR	EPA-200.8
Lead	0.613	µg/L	0.500	1	05/31/18 15:28	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98854**

Sample ID : **W26-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	155	µg/L	0.500	1	05/31/18 15:31	CCR	EPA-200.8
Lead	0.880	µg/L	0.500	1	05/31/18 15:31	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98855**

Sample ID : **W27-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	247	µg/L	0.500	1	05/31/18 15:34	CCR	EPA-200.8
Lead	1.11	µg/L	0.500	1	05/31/18 15:34	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98856**

Sample ID : **W28-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	281	µg/L	0.500	1	05/31/18 15:37	CCR	EPA-200.8
Lead	1.58	µg/L	0.500	1	05/31/18 15:37	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98857**

Sample ID : **W29-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	121	µg/L	0.500	1	05/31/18 15:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 15:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98858**

Sample ID : **W30-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	86.3	µg/L	0.500	1	05/31/18 15:58	CCR	EPA-200.8
Lead	0.563	µg/L	0.500	1	05/31/18 15:58	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98859**

Sample ID : **W31-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	70.2	µg/L	0.500	1	05/31/18 16:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:04	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98860**

Sample ID : **W32-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	194	µg/L	0.500	1	05/31/18 16:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98861**

Sample ID : **W33-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	247	µg/L	0.500	1	05/31/18 16:09	CCR	EPA-200.8
Lead	0.652	µg/L	0.500	1	05/31/18 16:09	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98862**

Sample ID : **W34-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	196	µg/L	0.500	1	05/31/18 16:12	CCR	EPA-200.8
Lead	0.763	µg/L	0.500	1	05/31/18 16:12	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98863**

Sample ID : **W35-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	182	µg/L	0.500	1	05/31/18 16:15	CCR	EPA-200.8
Lead	0.840	µg/L	0.500	1	05/31/18 16:15	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98864**

Sample ID : **W36-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	86.4	µg/L	0.500	1	05/31/18 16:17	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:17	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98865**

Sample ID : **W37-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	102	µg/L	0.500	1	05/31/18 16:23	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:23	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98866**

Sample ID : **W38-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	173	µg/L	0.500	1	05/31/18 16:26	CCR	EPA-200.8
Lead	1.00	µg/L	0.500	1	05/31/18 16:26	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
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Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98867**

Sample ID: **W39-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	169	µg/L	0.500	1	05/31/18 16:29	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:29	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98868**

Sample ID : **W40-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:21**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	263	µg/L	0.500	1	05/31/18 16:31	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:31	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98869**

Matrix: **Aqueous**

Sample ID : **W41-A**

Sampled: **5/29/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	186	µg/L	0.500	1	05/31/18 16:34	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:34	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98870**

Sample ID : **W42-A**

Matrix: **Aqueous**

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

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	159	µg/L	0.500	1	05/31/18 16:37	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:37	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98871**

Sample ID : **W43-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	150	µg/L	0.500	1	05/31/18 16:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98872**

Sample ID : **W44-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	154	µg/L	0.500	1	05/31/18 16:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:43	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98873**

Sample ID : **W45-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	121	µg/L	0.500	1	05/31/18 16:46	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:46	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98874**

Sample ID : **W46-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	192	µg/L	0.500	1	05/31/18 16:49	CCR	EPA-200.8
Lead	0.504	µg/L	0.500	1	05/31/18 16:49	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98875**

Sample ID : **W47-A**

Matrix: **Aqueous**

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

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	147	µg/L	0.500	1	05/31/18 16:54	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:54	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98876**

Sample ID : **W48-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	80.2	µg/L	0.500	1	05/31/18 16:57	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 16:57	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98877**

Sample ID : **W49-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	217	µg/L	0.500	1	05/31/18 16:59	CCR	EPA-200.8
Lead	0.523	µg/L	0.500	1	05/31/18 16:59	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98878**

Sample ID : **W50-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	155	µg/L	0.500	1	05/31/18 17:14	CCR	EPA-200.8
Lead	0.519	µg/L	0.500	1	05/31/18 17:14	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
Project manager

Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98879**

Sample ID: **W51-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	162	µg/L	0.500	1	05/31/18 17:20	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:20	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98880**

Sample ID : **W52-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:41**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	132	µg/L	0.500	1	05/31/18 17:23	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:23	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98881**

Sample ID : **W53-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	89.1	µg/L	0.500	1	05/31/18 17:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:26	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98882**

Sample ID : **W54-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:43**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	83.4	µg/L	0.500	1	05/31/18 17:27	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:27	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98883**

Sample ID : **W55-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	208	µg/L	0.500	1	05/31/18 17:28	CCR	EPA-200.8
Lead	0.571	µg/L	0.500	1	05/31/18 17:28	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98884**

Sample ID : **W56-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:48**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	145	µg/L	0.500	1	05/31/18 17:31	CCR	EPA-200.8
Lead	0.550	µg/L	0.500	1	05/31/18 17:31	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98885**

Sample ID : **W57-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	321	µg/L	0.500	1	05/31/18 17:34	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:34	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98886**

Sample ID : **W58-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	174	µg/L	0.500	1	05/31/18 17:37	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:37	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
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Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98887**

Sample ID: **W59-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:54**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	179	µg/L	0.500	1	05/31/18 17:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98888**

Sample ID : **W60-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 4:56**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	195	µg/L	0.500	1	05/31/18 17:43	CCR	EPA-200.8
Lead	0.965	µg/L	0.500	1	05/31/18 17:43	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
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Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98889**

Sample ID: **W61-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	164	µg/L	0.500	1	05/31/18 17:48	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:48	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98890**

Sample ID : **W62-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:01**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	179	µg/L	0.500	1	05/31/18 17:51	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:51	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98891**

Sample ID : **W63-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	193	µg/L	0.500	1	05/31/18 17:54	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:54	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98892**

Sample ID : **W64-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	144	µg/L	0.500	1	05/31/18 17:57	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 17:57	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98893**

Sample ID : **W65-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	198	µg/L	0.500	1	05/31/18 18:00	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 18:00	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98894**

Sample ID : **W66-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:07**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	164	µg/L	0.500	1	05/31/18 18:03	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 18:03	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98895**

Sample ID : **W73-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	90.7	µg/L	0.500	1	05/31/18 18:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 18:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
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Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98896**

Sample ID: **W74-A**

Matrix: **Aqueous**

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

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	151	µg/L	0.500	1	05/31/18 18:07	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	05/31/18 18:07	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
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Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98897**

Sample ID : **W75-A**

Matrix: **Aqueous**

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

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	164	µg/L	0.500	1	06/01/18 21:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 21:43	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98898**

Sample ID : **W76-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	148	µg/L	0.500	1	06/01/18 20:15	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:15	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98899**

Sample ID : **W77-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	171	µg/L	0.500	1	06/01/18 20:20	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:20	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98900**

Sample ID : **W78-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	138	µg/L	0.500	1	06/01/18 20:25	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:25	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

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Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98901**

Sample ID : **W79-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	164	µg/L	0.500	1	06/01/18 20:30	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:30	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98902**

Sample ID : **W80-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	157	µg/L	0.500	1	06/01/18 20:35	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:35	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98903**

Sample ID : **W81-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	188	µg/L	0.500	1	06/01/18 20:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information: Morrow, GA

Project # 1800-18861

Report Date: 06/06/2018

Received: 5/30/2018



Andrea R. Brownfield
Project manager

Report Number: **18-150-0306**

REPORT OF ANALYSIS

Lab No: **98904**

Sample ID: **W82-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	196	µg/L	0.500	1	06/01/18 20:45	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:45	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98905**

Sample ID : **W83-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	108	µg/L	0.500	1	06/01/18 20:50	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:50	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98906**

Sample ID : **W84-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	134	µg/L	0.500	1	06/01/18 20:55	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 20:55	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98907**

Sample ID : **W85-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	214	µg/L	0.500	1	06/01/18 21:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 21:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

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Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98908**

Sample ID : **W86-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	166	µg/L	0.500	1	06/01/18 21:11	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 21:11	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98909**

Sample ID : **W87-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 5:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	1.00	µg/L	0.500	1	06/01/18 21:16	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/01/18 21:16	CCR	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Tara ES

Information : Morrow, GA

Project # 1800-18861

Report Date : 06/06/2018

Received : 5/30/2018



Andrea R. Brownfield
Project manager

Report Number : **18-150-0306**

REPORT OF ANALYSIS

Lab No : **98910**

Sample ID : **W88-A**

Matrix: **Aqueous**

Sampled: **5/29/2018 6:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	161	µg/L	0.500	1	06/01/18 21:20	CCR	EPA-200.8
Lead	0.679	µg/L	0.500	1	06/01/18 21:20	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Tara ES
Report No: 18-150-0306

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

Lab Reagent Blank LRB-L383923 Matrix: AQU
Associated Lab Samples: 98829, 98830, 98831, 98832, 98833, 98834, 98835, 98836, 98837

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

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	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

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Tara ES
Report No: 18-150-0306

QC Prep: L383924 **QC Analytical Batch(es):** L384126
QC Prep Batch Method: EPA-200.8 **Analysis Method:** EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank		LRB-L383924					Matrix: AQU										
Associated Lab Samples:		98838,	98839,	98840,	98841,	98842,	98843,	98844,	98845,	98846,	98847,	98848,	98849,	98850,	98851,	98852,	98853
Parameter	Units	Blank Result		MQL		Analyzed											
Copper	µg/L	< 0.500		0.500		05/31/18 14:37											
Lead	µg/L	< 0.500		0.500		05/31/18 14:37											

Laboratory Control Sample		LCS-L383924			
Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	50.3	100	85-115
Lead	µg/L	50.3	50.6	101	85-115

Matrix Spike & Matrix Spike Duplicate		L 98857-MS-L383924	L 98857-MSD-L383924								
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	121	50.3	50.3	168	164	93.5	85.5	70-130	2.4	20.0
Lead	µg/L	< 0.503	50.3	50.3	49.1	49.9	97.7	99.3	70-130	1.6	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Tara ES
Report No: 18-150-0306

QC Prep: L383925
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L384125
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank		LRB-L383925			Matrix: AQU						
Associated Lab Samples:		98858, 98859, 98860, 98861, 98862, 98863, 98864, 98865, 98866, 98867, 98868, 98869, 98870, 98871, 98872, 98873									
Parameter	Units	Blank Result	MQL		Analyzed						
Copper	µg/L	< 0.500	0.500		05/31/18 15:55						
Lead	µg/L	< 0.500	0.500		05/31/18 15:55						

Laboratory Control Sample		LCS-L383925			
Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	52.6	105	85-115
Lead	µg/L	50.3	50.5	100	85-115

Matrix Spike & Matrix Spike Duplicate		L 98877-MS-L383925	L 98877-MSD-L383925								
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	217	50.3	50.3	257	256	79.6	77.6	70-130	0.3	20.0
Lead	µg/L	0.523	50.3	50.3	51.2	52.9	101	104	70-130	3.2	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Tara ES
Report No: 18-150-0306

QC Prep: L383927
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L384125
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L383927 Matrix: AQU
Associated Lab Samples: 98878, 98879, 98880, 98881, 98882, 98883, 98884, 98885, 98886, 98887, 98888, 98889, 98890, 98891, 98892, 98893

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	05/31/18 17:12
Lead	µg/L	< 0.500	0.500	05/31/18 17:12

Laboratory Control Sample LCS-L383927

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	51.6	103	85-115
Lead	µg/L	50.3	50.6	101	85-115

Matrix Spike & Matrix Spike Duplicate L 98897-MS-L383927 L 98897-MSD-L383927

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	164	50.3	50.3	213	206	97.5	83.5	70-130	3.3	20.0
Lead	µg/L	< 0.503	50.3	50.3	49.3	49.9	98.1	99.3	70-130	1.2	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Tara ES
Report No: 18-150-0306

QC Prep: L383928
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L384398
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L383928 Matrix: AQU
Associated Lab Samples: 98898, 98899, 98900, 98901, 98902, 98903, 98904, 98905, 98906, 98907, 98908, 98909, 98910

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	06/01/18 20:00
Lead	µg/L	< 0.500	0.500	06/01/18 20:00

Laboratory Control Sample LCS-L383928

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	47.1	93.7	85-115
Lead	µg/L	50.3	48.4	96.3	85-115

Matrix Spike & Matrix Spike Duplicate L 98910-MS-L383928 L 98910-MSD-L383928

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	161	50.3	50.3	205	207	87.5	91.5	70-130	0.9	20.0
Lead	µg/L	0.679	50.3	50.3	50.1	48.8	98.3	95.7	70-130	2.6	20.0

Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-150-0306**

Shipping Method

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

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

Comments:

Signature:

Tory Phillips

Date & Time:

05/30/2018 16:20:18

Client Name/Address

GLE

Client Project Manager/Contact

Karina Riker

Billing Information

1100 Spring Street 820
Atlanta, GA

For Laboratory Use Only

Project Description

D6 and C11

Project/Site Location (City/State)

Tenn ES

Method of Shipment

☐ Fed Ex ☐ UPS ☐ USPS
☐ Courier ☐ Client Drop Off
Other

Matrix Key

WW - Wastewater GW - Groundwater
DW - Drinking Water S - Soil /Solid O - Oil
P - Product M - Misc

Project Number

18000-18861

Project Manager Phone #

404-373-3844

Project Manager Email

Kirley@classroomprints.com

Site/Facility ID #

1A1N ES

Waypoint ANALYTICAL

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

Sample Identification

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

Barcode

18-150-0306
23169
08-30-2018
16:17:33
GLE Associates
CCPS: Tara ES

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(S)rab or (C)omposite	Required Analysis / Preservative	Comments/Notes
05/29/18	0328	W1-A		DW 1	HN03 HND3		DW RM 402
	0328	W2-A					DW RM 402
	0332	W3-A					DWF RM 403
	0332	W4-A					DW RM 403
	03345	W5-A					DWF RM 404
	03345	W6-A					DN RM 404
	0337	W7-A					F (Right) K HW
	0338	W8-A					F (Left) K HW
	0340	W9-A					DWF RM 405
	0340	W10-A					DW RM 405

Client Remarks/Comments

Sampled by (Name - Print)

Tara Riker

Relinquished by: (SIGNATURE)

Karina Riker

Date

5/29/18

Time

11:12

Received by: (SIGNATURE)

Hubert Anez

Date

5/29/18

Time

11:11

Relinquished by: (SIGNATURE)

Hubert Anez

Date

5/29/18

Time

15:00

Relinquished by: (SIGNATURE)

Hubert Anez

Date

5/30/18

Time

08:30

Client Name/Address

17E

Client Project Manager/Contact

Karina Riley

Billing Information

18-150-0306

23169

05-30-2018

16:17:33

GLE Associates

CCPS: Tara ES

Project Description

Pb and Cu

Project/Site Location (City/State)

Tara ES

Project Number

18000-18861

Project Manager Phone #

404-373-3844

Project Manager Email

kirley@glassassociates.com

Project Manager

Tara ES

Site/Facility ID #

Tara ES

Other

Purchase Order Number

Required Analysis / Preservative

Comments/Notes

Waypoint ANALYTICAL

2790 Whitten Road

Memphis, TN 38133

(901) 213-2400

Sample Identification

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

Date

05/29/18

Time

0342

W11-A

W12-A

W13-A

W14-A

W15-A

W16-A

W17-A

W18-A

W19-A

W20-A

Matrix (Refer to Key)

DW

Number of Containers

1

(g)rab or (C)omposite

200.8 Pb

200.8 Cu

Client Remarks/Comments

Sampled by (Name-Print)

Karina Riley

Relinquished by (SIGNATURE)

Karina Riley

Relinquished by (SIGNATURE)

Hugo Anez

Relinquished by (SIGNATURE)

Hugo Anez

Client Remarks/Comments

Date

05/29/18

Time

11:12

Received by: (SIGNATURE)

Hugo Anez

Date

5/29/18

Time

15:00

Received by: (SIGNATURE)

Fredex

Date

5/30/18

Time

08:30

Received by: (SIGNATURE)

V. Phillip

For Laboratory Use Only

Lab Comments

Ice

Y/N

Custody Seals

Y/N

Blank/Cooler Temp

N/A

undwater

olid O - Oil

Client Name/Address PTE		Client Project Manager/Contact Karina Riley		Billing Information ☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed		For Laboratory Use Only Custody Seals Blank/Cooler Temp		Client Remarks/Comments Sampled by (Name - Print) Relinquished by (SIGNATURE) Relinquished by (SIGNATURE) Relinquished by (SIGNATURE)		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Project Description Pb and Cu		Project/Site Location (City/State) Tara ES Morrow, GA		Project Manager Email Karina Riley		Project Manager Phone # 404-373-3844		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Project Number 18000-18861		Project Manager Phone # 404-373-3844		Project Manager Email Karina Riley		Project Manager Phone # 404-373-3844		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Project Manager Phone # 404-373-3844		Project Manager Email Karina Riley		Project Manager Phone # 404-373-3844		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Sample Identification W21-A W22-A W23-A W24-A W25-A W26-A W27-A W28-A W29-A W30-A		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Date Time 05/29/18 0356 0357 0358 0359 0401 0402 0402 0403 0404 0405		Sample Identification W21-A W22-A W23-A W24-A W25-A W26-A W27-A W28-A W29-A W30-A		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes DWF RM 410 DW RM 410 DWF RM 413 DW RM 413 DWF RM 412 DW RM 412 DWF RM 415 DW RM 415 DWF RM 416 DW RM 416		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S2O3		Number of Containers 1		Matrix (Refer to Key) DW 1 HND3 HND3		Project Manager Email Karina Riley		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30		Date Time 5/29/18 11:12 5/29/18 15:00 5/30/18 08:30	
Comments/Notes Cool < 10C Na2S2O3 (Micro Only) Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCL pH<2 H3PO4 pH<2 Cool <= 6C Na2S											

Client Name/Address GLE Tara ES		Client: Project Manager/Contact Katrina Riley Project/Site Location (City/State) Tara ES		Billing Information ☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed		Barcode 18-150-0306 23169 05-30-2018 16:17:33 GLE Associates CCPS: Tara ES	
Project Description Pb and Cu		Project Number 18000-18861		Project Manager Email kriley@gleassociates.com		Purchase Order Number Tara ES	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Project Manager Phone # 404-373-3844		Site/Facility ID # Tara ES		Other ndwater lid O - Oil	
Sample Identification Unless noted, all containers per Table II of 40 CFR Part 136.		Number of Containers		Matrix (Refer to Key)		(Grab or Composite)	
Date 05/29/18		Time 0406		Required Analysis / Preservative		Comments/Notes	
W31-A		W32-A		W33-A		W34-A	
W35-A		W36-A		W37-A		W38-A	
W39-A		W40-A		W41-A		W42-A	
W43-A		W44-A		W45-A		W46-A	
W47-A		W48-A		W49-A		W50-A	
W51-A		W52-A		W53-A		W54-A	
W55-A		W56-A		W57-A		W58-A	
W59-A		W60-A		W61-A		W62-A	
W63-A		W64-A		W65-A		W66-A	
W67-A		W68-A		W69-A		W70-A	
W71-A		W72-A		W73-A		W74-A	
W75-A		W76-A		W77-A		W78-A	
W79-A		W80-A		W81-A		W82-A	
W83-A		W84-A		W85-A		W86-A	
W87-A		W88-A		W89-A		W90-A	
W91-A		W92-A		W93-A		W94-A	
W95-A		W96-A		W97-A		W98-A	
W99-A		W100-A		W101-A		W102-A	
W103-A		W104-A		W105-A		W106-A	
W107-A		W108-A		W109-A		W110-A	
W111-A		W112-A		W113-A		W114-A	
W115-A		W116-A		W117-A		W118-A	
W119-A		W120-A		W121-A		W122-A	
W123-A		W124-A		W125-A		W126-A	
W127-A		W128-A		W129-A		W130-A	
W131-A		W132-A		W133-A		W134-A	
W135-A		W136-A		W137-A		W138-A	
W139-A		W140-A		W141-A		W142-A	
W143-A		W144-A		W145-A		W146-A	
W147-A		W148-A		W149-A		W150-A	
W151-A		W152-A		W153-A		W154-A	
W155-A		W156-A		W157-A		W158-A	
W159-A		W160-A		W161-A		W162-A	
W163-A		W164-A		W165-A		W166-A	
W167-A		W168-A		W169-A		W170-A	
W171-A		W172-A		W173-A		W174-A	
W175-A		W176-A		W177-A		W178-A	
W179-A		W180-A		W181-A		W182-A	
W183-A		W184-A		W185-A		W186-A	
W187-A		W188-A		W189-A		W190-A	
W191-A		W192-A		W193-A		W194-A	
W195-A		W196-A		W197-A		W198-A	
W199-A		W200-A		W201-A		W202-A	
W203-A		W204-A		W205-A		W206-A	
W207-A		W208-A		W209-A		W210-A	
W211-A		W212-A		W213-A		W214-A	
W215-A		W216-A		W217-A		W218-A	
W219-A		W220-A		W221-A		W222-A	
W223-A		W224-A		W225-A		W226-A	
W227-A		W228-A		W229-A		W230-A	
W231-A		W232-A		W233-A		W234-A	
W235-A		W236-A		W237-A		W238-A	
W239-A		W240-A		W241-A		W242-A	
W243-A		W244-A		W245-A		W246-A	
W247-A		W248-A		W249-A		W250-A	
W251-A		W252-A		W253-A		W254-A	
W255-A		W256-A		W257-A		W258-A	
W259-A		W260-A		W261-A		W262-A	
W263-A		W264-A		W265-A		W266-A	
W267-A		W268-A		W269-A		W270-A	
W271-A		W272-A		W273-A		W274-A	
W275-A		W276-A		W277-A		W278-A	
W279-A		W280-A		W281-A		W282-A	
W283-A		W284-A		W285-A		W286-A	
W287-A		W288-A		W289-A		W290-A	
W291-A		W292-A		W293-A		W294-A	
W295-A		W296-A		W297-A		W298-A	
W299-A		W300-A		W301-A		W302-A	
W303-A		W304-A		W305-A		W306-A	
W307-A		W308-A		W309-A		W310-A	
W311-A		W312-A		W313-A		W314-A	
W315-A		W316-A		W317-A		W318-A	
W319-A		W320-A		W321-A		W322-A	
W323-A		W324-A		W325-A		W326-A	
W327-A		W328-A		W329-A		W330-A	
W331-A		W332-A		W333-A		W334-A	
W335-A		W336-A		W337-A		W338-A	
W339-A		W340-A		W341-A		W342-A	
W343-A		W344-A		W345-A		W346-A	
W347-A		W348-A		W349-A		W350-A	
W351-A		W352-A		W353-A		W354-A	
W355-A		W356-A		W357-A		W358-A	
W359-A		W360-A		W361-A		W362-A	
W363-A		W364-A		W365-A		W366-A	
W367-A		W368-A		W369-A		W370-A	
W371-A		W372-A		W373-A		W374-A	
W375-A		W376-A		W377-A		W378-A	
W379-A		W380-A		W381-A		W382-A	
W383-A		W384-A		W385-A		W386-A	
W387-A		W388-A		W389-A		W390-A	
W391-A		W392-A		W393-A		W394-A	
W395-A		W396-A		W397-A		W398-A	
W399-A		W400-A		W401-A		W402-A	
W403-A		W404-A		W405-A		W406-A	
W407-A		W408-A		W409-A		W410-A	
W411-A		W412-A		W413-A		W414-A	
W415-A		W416-A		W417-A		W418-A	
W419-A		W420-A		W421-A		W422-A	
W423-A		W424-A		W425-A		W426-A	
W427-A		W428-A		W429-A		W430-A	
W431-A		W432-A		W433-A		W434-A	
W435-A		W436-A		W437-A		W438-A	
W439-A		W440-A		W441-A		W442-A	
W443-A		W444-A		W445-A		W446-A	
W447-A		W448-A		W449-A		W450-A	
W451-A		W452-A		W453-A		W454-A	
W455-A		W456-A		W457-A		W458-A	
W459-A		W460-A		W461-A		W462-A	
W463-A		W464-A		W465-A		W466-A	
W467-A		W468-A		W469-A		W470-A	
W471-A		W472-A		W473-A		W474-A	
W475-A		W476-A		W477-A		W478-A	
W479-A		W480-A		W481-A		W482-A	
W483-A		W484-A		W485-A		W486-A	
W487-A		W488-A		W489-A		W490-A	
W491-A		W492-A		W493-A		W494-A	
W495-A		W496-A		W497-A		W498-A	
W499-A		W500-A		W501-A		W502-A	
W503-A		W504-A		W505-A		W506-A	
W507-A		W508-A		W509-A		W510-A	
W511-A		W512-A		W513-A		W514-A	
W515-A		W516-A		W517-A		W518-A	
W519-A		W520-A		W521-A		W522-A	
W523-A		W524-A		W525-A		W526-A	
W527-A		W528-A		W529-A		W530-A	
W531-A		W532-A		W533-A		W534-A	
W535-A		W536-A		W537-A		W538-A	
W539-A		W540-A		W541-A		W542-A	
W543-A		W544-A		W545-A		W546-A	
W547-A		W548-A		W549-A		W550-A	
W551-A		W552-A		W553-A		W554-A	
W555-A		W556-A		W557-A		W558-A	
W559-A		W560-A		W561-A		W562-A	
W563-A		W564-A		W565-A		W566-A	
W567-A		W568-A		W569-A		W570-A	
W571-A		W572-A		W573-A		W574-A	
W575-A		W576-A		W577-A		W578-A	
W579-A		W580-A		W581-A		W582-A	
W583-A		W584-A		W585-A		W586-A	
W587-A		W588-A		W589-A		W590-A	
W591-A		W592-A		W593-A		W594-A	
W595-A		W596-A		W597-A		W598-A	
W599-A		W600-A		W601-A		W602-A	
W603-A		W604-A		W605-A		W606-A	
W607-A		W608-A		W609-A		W610-A	
W611-A		W612-A		W613-A		W614-A	
W615-A		W616-A		W617-A		W618-A	
W619-A		W620-A		W621-A		W622-A	

For Laboratory Use Only

Billing Information

Client Project Manager/Contact

Client Name/Address

18-150-0306
23169
05-30-2018
16:17:33



GLE Associates
CCPS: Tara ES

Groundwater
il /Solid O - Oil

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

Katrina Riley
Project/Site Location (City/State)
Tara ES
Morgantown, GA

Ph and Cu

Project Number

Project Manager Phone #

Project Manager Email

Purchase Order Number

Site/Facility ID #

18000-18861

404-373-3844

k.riley@gleassociates.com

Tara ES



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

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

Sample Identification		Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative		Comments/Notes
Date	Time						
05/29/18	0440	W51-A	DW 7 HND3 HND3				WORK DW RM 100.12
	0441	W52-A					F WORK RM 100.12
	0442	W53-A					F (left) across from MC
	0443	W54-A					F (right) across from MC
	0445	W55-A					DW Medical Center
	0448	W56-A					DW Admin Office
	0450	W57-A					DW Clinic
	0453	W58-A					F (right) Outdoor Courtyard HW
	0454	W59-A					F (left) Outdoor Courtyard HW
	0456	W60-A					F GYM
For Laboratory Use Only							
Ice		Custody Seals		Lab Comments			
Y (N)		Y (N)		*Do not test unless authorized - DR			
Blank/Cooler Temp		N/A		Sampled by: (Name - Print) Katrina Riley			
				Relinquished by: (SIGNATURE) Katrina Riley			
				Relinquished by: (SIGNATURE) Hugo Anzor			
				Relinquished by: (SIGNATURE) Hugo Anzor			
				Date Time			
				5/29/18 11:12			
				Received by: (SIGNATURE)			
				Hugo Anzor			
				Date Time			
				5/29/18 15:00			
				Received by: (SIGNATURE)			
				H. Phillip			
				Date Time			
				5/30/18			
				Date Time			
				08:30			

Client Name/Address		Client Project Manager/Contact		Billing Information		For Laboratory Use Only	
GLE		Katrina Riley Project/Site Location (City/State) Tara ES		☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) ☐ Date Results Needed		18-150-0306 23169 05-30-2018 16:17:33 GLE Associates CCPS: Tara ES	
Project Description		Project Manager Phone #		Project Manager Email		Purchase Order Number	
Pb and Cu		404-373-3844		krl@edness.com		Tara ES	
Project Number		Sample Identification		Matrix (Refer to Key)		Number of Containers	
18000-18861		Unless noted, all containers per Table II of 40 CFR Part 136.		DW 1 HNO3 HNO3		200.8 Cu	
Waypoint ANALYTICAL		Date		Time		Required Analysis / Preservative	
2790 Whitten Road Memphis, TN 38133 (901) 213-2400		05/09/18		0500		F (Right) Brid grade HW	
		0501		N61-A		F (Left) Brid grade HW	
		0502		N62-A		DWF RM 309	
		0503		N63-A		DW RM 309	
		0506		N64-A		DWF RM 307	
		0507		N65-A		DW RM 308	
		0508		N66-A		DWF RM 308	
		0510		N67-A		DWF RM 308	
		0512		N68-A		DWF RM 308	
		0513		N69-A		DWF RM 308	
		0513		N70-A		DWF RM 308	
Ice		Custody Seals		Lab Comments		Client Remarks/Comments	
Y/N		Y/N		Do not analyze		Received by: (SIGNATURE)	
Blank/Cooler Temp		Y/N		Date		Time	
N/A		Y/N		05/29/18		11:12	
				Date		Time	
				05/29/18		15:00	
				Date		Time	
				05/29/18		15:00	
				Date		Time	
				05/30/18		08:30	

Client Name/Address		Client Project Manager/Contact		Billing Information	
GLE Project Description		Katrina Riley Project/Site Location (City/State) Tara ES		☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) ☐ Date Results Needed	
Pb and Cu		Morrow, La			
Project Number 18000-18861		Project Manager Phone # 404 373 3844		Project Manager Email kriley@glassurinc.com	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Number of Containers		(g)rab or (C)omposite	
Date	Time	Sample Identification			
05/19/18	0513	# W71-A			
	0515	# W72-A			
	0518	W73-A			
	0523	W74-A			
	0524	W75-A			
	0527	W76-A			
	0527	W77-A			
	0530	W78-A			
	0530	W79-A			
	0531	W80-A			
For Laboratory Use Only					
Ice		Custody Seals	Lab Comments		
Y N		Y N	Do not analyze unless advised per client		
Blank/Cooler Temp		Received by: (SIGNATURE)			
N/A		Date Time 05/29/18 11:12			
		Received by: (SIGNATURE)			
		Date Time 5/29/18 15:00			
		Received by: (SIGNATURE)			
		Date Time 5/30/18			
		Received by: (SIGNATURE)			
		Date Time 08:30			

18-150-0306
23159
05-30-2018
16:17:33

GLE Associates
CCPS: Tara ES

Groundwater
/Solid O - Oil

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

Project Description
Pb and Cu

Project Number
18000-18861

Project/Site Location (City/State)
Tara ES
Memphis, TN

Project Manager Phone #
404-373-3844

Project Manager Email
kiley@glensci.com

Purchase Order Number

Site/Facility ID #
Tara ES

Waypoint
ANALYTICAL

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

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

Date		Time		Sample Identification		Required Analysis / Preservative		Comments/Notes					
05/29/14	0532	W81-A	DW G HNO3 HNO3					DW4 Kitchen West Wall (Left)					
	0533	W82-A						DW5 Kitchen West Wall (Right)					
	0534	W83-A						Steamer 1 Kitchen					
	0535	W84-A						Steamer 2 Kitchen					
	0537	W85-A						DW6 East Wall (Left) Kitchen					
	0538	W86-A						DW7 East Wall (Right) Kitchen					
	0540	W87-A						ICE Kitchen					
	0610	W88-A						DW 84 901.05					
		W89-A											
		W90-A											
For Laboratory Use Only													
Ice		Custody Seals		Lab Comments									
Y (N)		Y (N)											
Blank/Cooler Temp													
N/A													
Sampled by (Name - Print)				Date		Time		Received by: (SIGNATURE)		Date		Time	
Tara ES				05/29/18		11:16		Hobco Avez		5/29/18		11:12	
Relinquished by: (SIGNATURE)				Date		Time		Received by: (SIGNATURE)		Date		Time	
Hobco Avez				5/29/18		15:00		F. J. J. J.		5/29/18		15:00	
Relinquished by: (SIGNATURE)				Date		Time		Received by: (SIGNATURE)		Date		Time	
Hobco Avez				5/29/18		15:00		F. J. J. J.		5/30/18		08:30	

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

